

DILLON
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BUILD NOVA SCOTIA (BNS)

Environmental Screening Report

Former Mill Village Mine





September 8, 2023

Build Nova Scotia (BNS)
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Sydney, Nova Scotia
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ATTENTION: Mr. Cory MacPhee

***Environmental Screening Report
Former Mill Village Mine Site, Charleston, Nova Scotia
Property Identification Designation Number: 70169214***

Dillon Consulting Limited (Dillon) is pleased to submit this Environmental Screening Report in support of a Phase II Environmental Site Assessment to be conducted on Property Identification Designation (PID) Number 70169214, located in Charleston, Nova Scotia.

Please do not hesitate to contact the undersigned at your convenience should you have any further questions or comments.

Sincerely,

DILLON CONSULTING LIMITED

A handwritten signature in black ink that reads "Olivia Butty".

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1.0

Introduction

The following document has been prepared to present the findings of an environmental screening completed on a planned Phase II Environmental Site Assessment (ESA) field program at the Former Mill Village Mine Site in Charleston, Nova Scotia (herein referred to as the “subject property” or the “site”). Specifically, the areas of the environmental screening will include the access routes to and areas surrounding planned drilling locations (i.e., three planned monitoring well installations) for the Phase II ESA. The access routes and the proposed drilling areas are planned to include tree removal, to be completed by Nova Scotia Department of Natural Resources and Renewables (NS DNRR), prior to the drilling program to facilitate equipment access.

The purpose of this environmental screening report is to present a technical assessment of potential environmental constraints that may affect project activities. Watercourses, wetlands, Species at Risk (SAR) and Species of Conservation Concern (SoCC), which may be impacted by project activities, are identified through this screening. The interaction between these features and proposed project components (e.g., tree clearing, drilling) were assessed, and recommended mitigation measures to limit potential impacts to these species and environmental features are provided in the following sections.

1.1

Project Location and Background Information

The former Mill Village Mine site is located in Charleston, Queens County, Nova Scotia and covers an area of approximately 2.5 hectares. For assessment purposes, the subject property (i.e., Property Identification Designation (PID) No.70169214) is considered industrial land use, as there are active mineral claims on the PID and the site is generally not accessed by the public. The site can be accessed using Zwicker Road off Medway River Road. Dillon completed a site visit on July 20, 2023 to support a Phase I ESA, no perennial surface water bodies were noted within the assessment area during this visit. Refer to **Figure 1** for a depiction of the project location.

Gold mineralization was found in the Mill Village Gold district in the 1860s and prospecting identified several deposits. The Thompson Vein was discovered on the subject property, and two shafts were reported to have been sunk to target the gold mineralization. Additional mine shafts were constructed in the 1940s, and mining operations ceased in the early 1950s. Various companies conducted exploration programs on the subject property in attempts to identify gold mineralization through the 1980s and into the 2010s. However, no further gold exploration activities were recorded beyond the early 2010s. Mercury amalgam is believed to have been used to process the ore, however, based on available information this ore processing may have taken place offsite at the near-by Gold Eagle Mine. One previously recorded tailings pile is located on site. Field observations indicate that the tailings pile is more consistent with a waste rock pile, with cobble to boulder sized slate rock materials. Based on document review, the site buildings and ore processing areas surrounded this waste rock pile both on

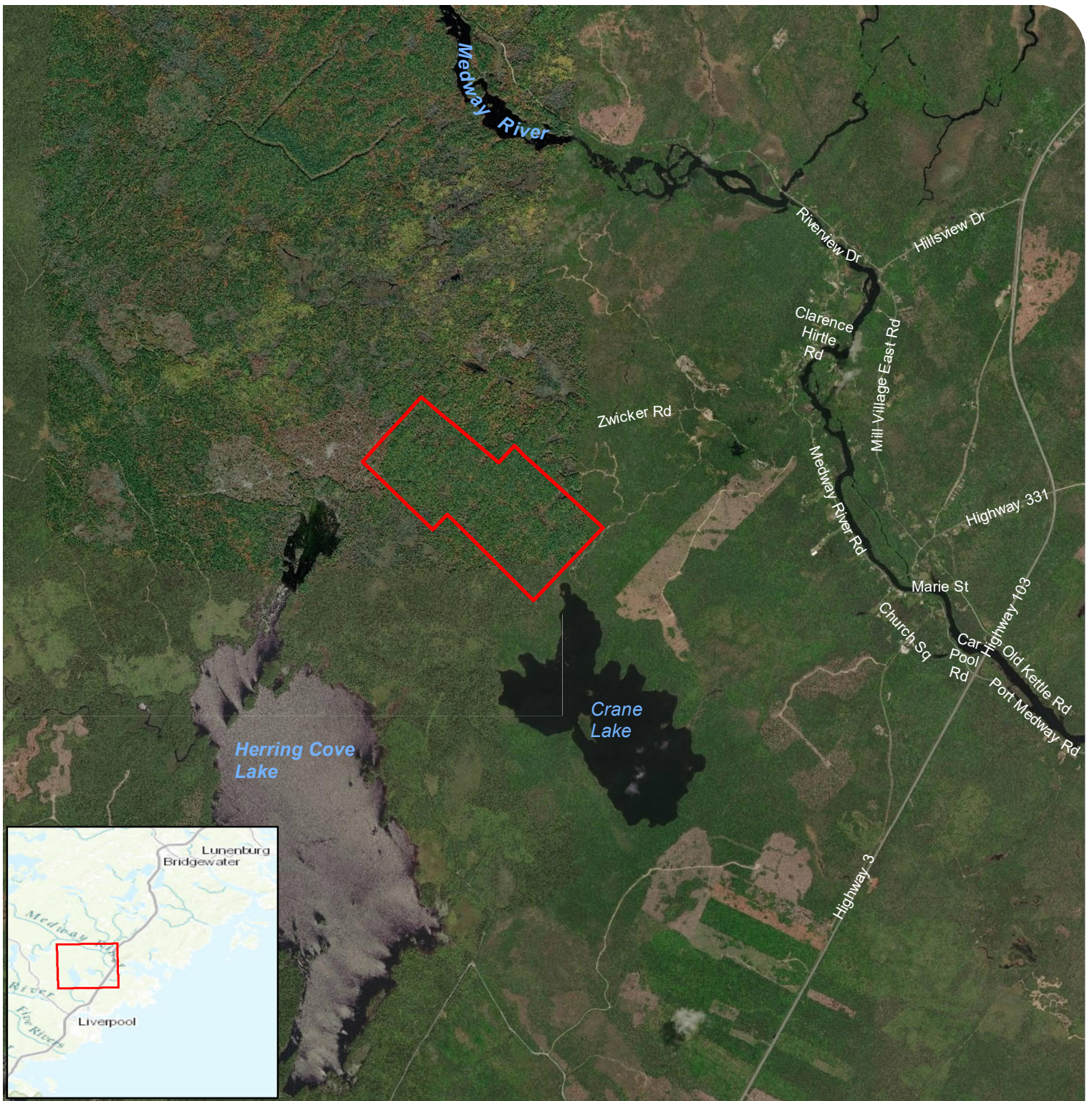
the subject property and an adjacent property. Surrounding land uses are primarily resource forest and provincial forest. The site is not serviced by municipal water and sewer. The topographic gradient suggests that the regional groundwater flow direction is likely north/northeast toward Tumblingdown Brook.

2.0 Existing Conditions

As part of the environmental screening, Dillon completed a desktop environmental review of existing conditions at the former mine site. Observations from the site visit undertaken by Dillon on July 20, 2023 while undertaking a Phase I ESA were also reviewed. The following sections provide a general description of the results of the desktop review and site visits. The clearing required for the groundwater wells will occur near the furthest north corner of the subject property (**Figure 1**) and the rest of the site will be left undisturbed. Photographs of the site taken during the Phase I ESA are provided in **Appendix A**.


2.1 Species at Risk and Species of Conservation Concern

Special consideration was given to identifying any SAR that may be present within the subject property. For the purposes of this environmental screening, SAR are defined as those species that are listed as “Extirpated”, “Endangered”, “Threatened”, “Special Concern”, or “Vulnerable” on Schedule 1 of the federal Species at Risk Act (SARA) or the Nova Scotia Endangered Species Act (ESA). Historical observations of SAR were acquired from the Atlantic Canada Conservation Data Centre (AC CDC). Refer to **Table 1** for a list of SAR within 5 kilometres (km) of the former mine site (AC CDC 2023; **Appendix B**).



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Former Mill Village
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 Subject Parcel

PROJECT LOCATION

FIGURE 1



MAP DRAWING INFORMATION:
DATA PROVIDED BY BuildNS GeoNova, ESRI

MAP CREATED BY: SCM
MAP CHECKED BY: APY
MAP PROJECTION: NAD 1983 UTM Zone 20N



SCALE 1:50,000
0 250 500 1,000 m
PROJECT: 236465
STATUS: DRAFT
DATE: 2023-09-07

Table 1: SAR Identified Within 5 km of the Former Mill Village Mine Site

Common Name	Scientific Name	COSEWIC	SARA	NS ESA	S-Rank ¹
Birds					
Bank Swallow	<i>Riparia riparia</i>	Threatened	Threatened	Endangered	S2B
Chimney Swift	<i>Chaetura pelagica</i>	Threatened	Threatened	Endangered	S2S3B, S1M
Barn Swallow	<i>Hirundo rustica</i>	Special Concern	Threatened	Endangered	S3B
Common Nighthawk	<i>Chordeiles minor</i>	Special Concern	Special Concern	Threatened	S3B
Olive-sided Flycatcher	<i>Contopus cooperi</i>	Special Concern	Special Concern	Threatened	S3B
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	Special Concern	Special Concern	Vulnerable	S3B, S3N, S3M
Eastern Wood-Pewee	<i>Contopus virens</i>	Special Concern	Special Concern	Vulnerable	S3S4B
Bats					
Little Brown Myotis	<i>Myotis lucifugus</i>	Endangered	Endangered	Endangered	S1
Northern Myotis	<i>Myotis septentrionalis</i>	Endangered	Endangered	Endangered	S1
Tricolored Bat	<i>Perimyotis subflavus</i>	Endangered	Endangered	Endangered	S1
Reptiles					
Eastern Ribbonsnake	<i>Thamnophis saurita</i>	Threatened	Threatened	Threatened	S2S3
Wood Turtle	<i>Glyptemys insculpta</i>	Threatened	Threatened	Threatened	S2
Vascular plants					
Redroot	<i>Lachnanthes caroliniana</i>	Special Concern	Special Concern	Vulnerable	S2
Long's Bulrush	<i>Scirpus longii</i>	Special Concern	-	Vulnerable	S3
Lichens					
Wrinkled Shingle Lichen	<i>Pannaria lurida</i>	Threatened	Threatened	Threatened	S2S3
Blue Felt Lichen	<i>Pectenaria plumbea</i>	Special Concern	Special Concern	Vulnerable	S3
Frosted Glass-whiskers (Atlantic population)	<i>Sclerophora peronella</i> (Atlantic pop.)	Special Concern	Special Concern	-	S3S4
Insects					
Monarch	<i>Danaus plexippus</i>	Endangered	Special Concern	Endangered	S2?B, S3M

Notes:

¹ AC CDC S-Ranks as follows- S1: extremely rare in province; S2: rare in province; S3: uncommon in province; S4: widespread, common, and apparently secure in province; S5: widespread, abundant, and demonstrably secure in province; S#S#: a numeric range rank used to indicate any range of uncertainty about the status of the species or community; B: breeding; N: nonbreeding; M: migrant; U: unrankable (AC CDC 2023).

The AC CDC also reports records of SoCC, which are not protected under legislation, but defined as rare (ranked S1, S2, or S3 by the AC CDC) or assessed as Endangered, Threatened, or Special Concern by Committee on the Status of Endangered Wildlife in Canada (COSEWIC). Refer to the report (**Appendix B**) for more details on SoCC recorded within 5km of the project site.

Though present on and/or within 5 km from the subject properties, the AC CDC report showed no historical observations of SAR or SoCC within the former mine footprint. The nearest SAR and SoCC records are approximately 2.5 km away from the approximate center of the former mine site (2023; **Appendix B**). SAR and SoCC near the former mine site are depicted on **Figure 2**.

2.2 Fish and Fish Habitat

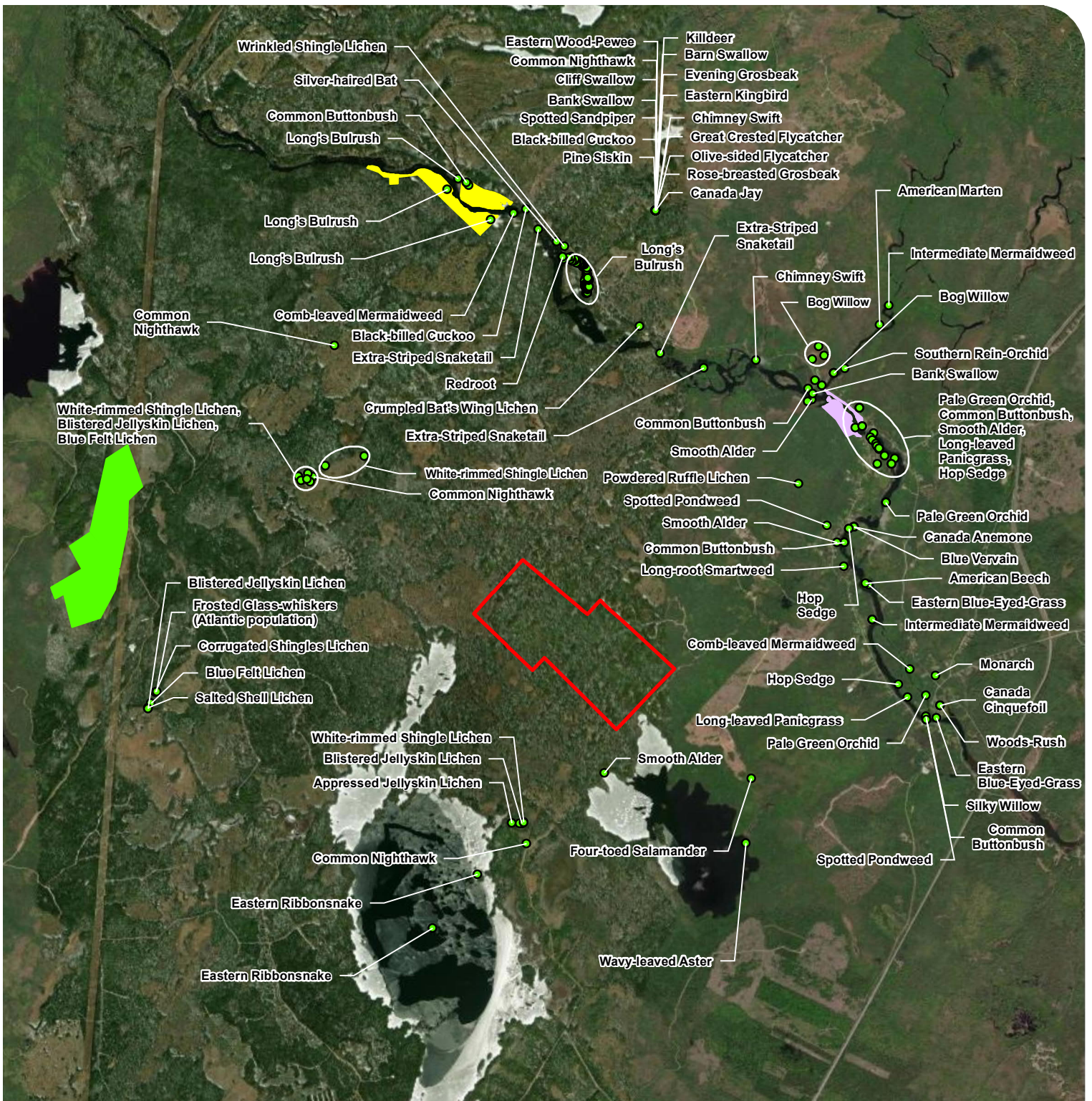
According to the provincial landscape viewer, one mapped perennial watercourse, an unnamed first order tributary to Tumblingdown Brook, flows through the subject property from south to north at the south east end of the site (NS DNRR 2021). The watercourse is located approximately 1 km southeast of the proposed clearing footprint; photos of where it crosses Zwicker Road downstream, approximately 1 km east of the proposed clearing footprint can be found in **Appendix A**. No records of SAR or SoCC were noted within the watercourse from the AC CDC report.

2.3 Vegetation

The subject property of the former mine site is primarily forested and located on Crown land. Some cleared areas exist where forest roads and old mining infrastructure are located. According to the provincial landscape map, the area is categorized as Spruce, Hemlock, Pine Hummocks and Hills under the Ecological Land Classification system. According to the online mapping, dominant tree species include: balsam fir (*Abies balsamea*), red pine (*Pinus resinosa*), hemlock (*Tsuga canadensis*) and white spruce (*Picea glauca*) (NS DNRR 2021). These tree species are evident in photos from the site visits along with various species in the shrub and herbaceous layer such as common ferns, grasses and sedges (**Appendix A**).

2.4 Wetlands

There are five mapped wetlands located on the subject property which are all found at the southeast end of the subject property, outside of the proposed drilling/clearing areas. Four are classified as treed swamps, with three located at the southeastern most border and one at the headwaters of Tumblingdown Brook. The fifth wetland is a 0.9 ha low shrub marsh that is located approximately 150 m downstream of the treed swamp on Tumblingdown Brook (NS DNRR 2021). The total wetland area on the subject property is approximately 4 ha. All of the wetlands are down grade from and located opposite to the assessment area. Given their distance from proposed monitoring wells locations (1 to 1.5 km), wetlands are not anticipated to be negatively impacted by the drilling activities.



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- ACCDC Observations
- Subject Parcel
- Medway River Conservation Lands
- Medway River Provincial Park
- Shingle Mill Bog Conservation Lands

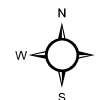
SPECIES AT RISK AND SPECIES OF CONSERVATION CONCERN

FIGURE 2



MAP DRAWING INFORMATION:
DATA PROVIDED BY: BuildNS GeoNova, ESRI

MAP CREATED BY: SCM
MAP CHECKED BY: APY
MAP PROJECTION: NAD 1983 UTM Zone 20N



SCALE 1:60,000
0 250 500 1,000 m
PROJECT: 236465
STATUS: DRAFT
DATE: 2023-09-07

2.5 Wildlife and Wildlife Habitat

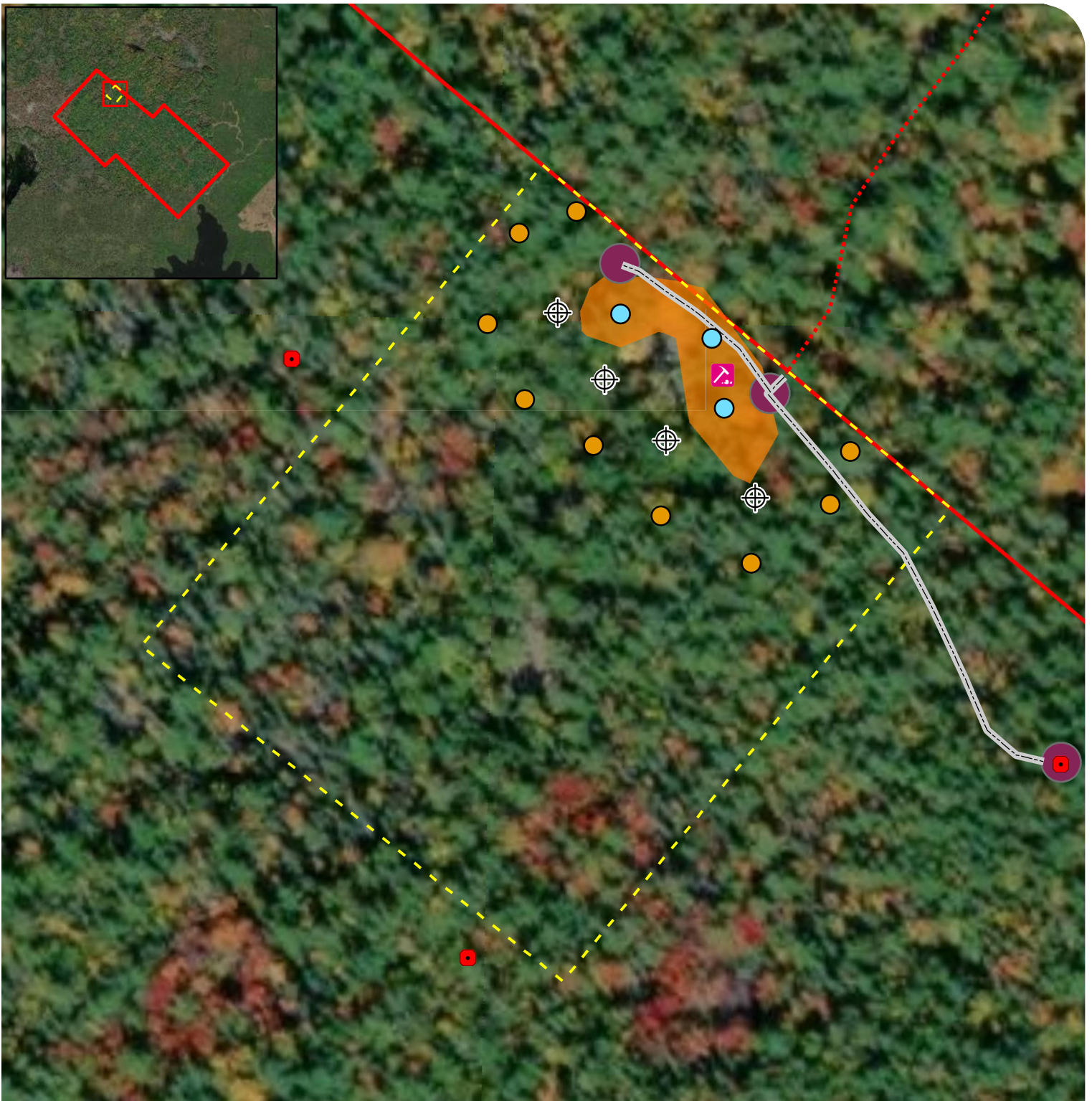
The forested areas of the subject property likely provide adequate habitat for numerous wildlife species that reside in Nova Scotia. Wildlife SAR or SoCC were recorded within 5 km of the former mine site according to the AC CDC report; however, none were noted in the immediate vicinity (AC CDC 2023; **Appendix B**). No direct wildlife observations in the Phase I ESA site visit photographs were noted, however some dead snag trees noted in the site visit photos may offer suitable bat maternity roost habitat. Some trees also showed potential evidence of browsing from porcupines (i.e., stripped bark).

3.0 Environmental Screening

The potential for SAR and SoCC to occur within the planned drilling areas was determined by comparing species habitat requirements to the habitat conditions present on-site, and using the results of the background information review and the site photos to apply the following rankings:

- **Low Probability:** neither species nor suitable habitat observed but there is a known species record in the general area.
- **Moderate Probability:** species not observed; however, potentially suitable habitat on or adjacent to site was identified and there is a known species record in the general area.
- **High Probability:** good quality SAR habitat identified (e.g., sufficiently large areas of suitable vegetation and presence of key features such as nesting sites), and/or known species record in the area.

Figure 3 presents the proposed drilling areas (see proposed monitoring well locations – maroon coloured polygons on the figure). It should be noted that only the icons and symbols for the proposed monitoring well locations, the proposed access road (grey dashed line) and access route (red dashed line) will involve tree clearing. Other sample locations noted on **Figure 3** will not involve clearing and so no mitigation is recommended for these areas. **Table 2** provides a brief summary of the likelihood of SAR occurring within the proposed clearing areas associated with the monitoring well locations and access routes.



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- | | | | |
|--|--------------------------------|--|----------------------|
| | Rock Sample | | Proposed Access Road |
| | Background Sample | | Access Route |
| | Hand Auger Sample | | Assessment Area |
| | Soil/Tailings Sample | | Proposed MW Location |
| | Step-out Surficial Soil Sample | | Tailings Area |
| | | | Subject Parcel |

SAMPLING PLAN FIGURE 3



MAP DRAWING INFORMATION:
DATA PROVIDED BY BuildNS GeoNova, ESRI

MAP CREATED BY: SCM
MAP CHECKED BY: APY
MAP PROJECTION: NAD 1983 UTM Zone 20N



SCALE 1:1,500
0 7.5 15 30 m
PROJECT: 236465
STATUS: DRAFT
DATE: 2023-09-07

Table 2: SAR potential to occur within the proposed clearing areas

Species	Habitat ¹	Probability Ranking
Birds		
Bank Swallow	Nests within steep embankments along eroding river/ocean shore, but also quarries and gravel pits.	Low – clearing not anticipated to intersect preferred habitat
Chimney Swift	Large hollow trees or chimneys for nesting and roosting. Mainly associated with urban and rural areas where chimneys and similar structures are available, and where aerial insects are abundant for foraging.	Low – clearing not anticipated to intersect preferred habitat
Barn Swallow	Preference to open habitats for foraging (i.e., grassy fields, pastures, cleared rights-of-way, etc.), usually within 10m of the ground during the day. Nest in/on artificial structures such as barns, houses, bridges, and road culverts. Outside of nesting period, will congregate in communal roosts often associated with wetlands or shrub thickets near water.	Low – clearing not anticipated to intersect preferred habitat
Common Nighthawk	Require open ground or clearings for nesting. Breeds in a wide range of open habitats. Forage in open areas with flying insects during crepuscular periods, although they sometimes forage during the day. Roosting sites consists of tree limbs, ground, fence posts, and rooftops.	Moderate – habitat not likely in proposed clearing areas; may nest on access roads
Olive-sided Flycatcher	Coniferous or mixed forest, often near water or wetlands. Often associated with natural forest openings and other forest edges or open to semi-open forest stands containing snags. Nests are generally in conifers, towards the tips of branches. Open areas with tall trees or snags for perching are required for foraging.	High – habitat likely present within cleared areas
Evening Grosbeak	Breeding habitat generally includes open, mature mixed wood forests where fir species and/or white spruce are dominant and Spruce Budworm is abundant. Outside of the breeding season the species is dependent on seed crops from various trees such as firs and spruces. Nests are located in the canopy and the preference is to use conifers.	High – habitat likely present within cleared areas
Eastern Wood-Pewee	Mostly associated with the mid-canopy layer of forest clearings and edges of deciduous and mixed forests. It is most abundant in forest stands of intermediate age and in mature stands with little understory vegetation. During migration, a variety of habitats are used, including forest edges, and early successional clearings.	High – habitat likely present within cleared areas
Bats		
Little Brown Myotis/ Northern Myotis/ Tricolored Bat	Overwinter in cold and humid hibernacula (caves/mines). Establish summer maternity colonies, often in buildings, or large-diameter trees. Foraging occurs over water, along waterways, forest edges, and in gaps in the forest.	High – habitat likely present within cleared areas
Reptiles		
Eastern Ribbonsnake	Semi-aquatic. Most frequently found along the edges of shallow ponds, streams, marshes, swamps, or bogs bordered by dense vegetation that provides cover. Abundant exposure to sunlight is also required, and adjacent upland areas may be used for nesting.	Moderate – habitat not likely in proposed clearing areas

Species	Habitat ¹	Probability Ranking
Wood Turtle	Semi-aquatic and considerably more terrestrial than most freshwater turtles. Strongly associated with meandering rivers and streams with moderate current and sand or gravel substrates. Overwinter underwater in streams, rivers, and occasionally ponds. During the active season (spring, summer, early fall), use riparian habitats and upland forests; forest and open-canopy areas are the most commonly used or preferred terrestrial habitats. Primarily forage in terrestrial or wetland habitats that occur within close proximity to rivers/streams. Natural nesting habitat consists of sand or gravel-sand beaches or banks of streams that receive moderate to intense exposure to sun. Also nest in anthropogenic open-canopy sites such as gravel pits, road shoulders, and decommissioned railway beds.	Moderate – nesting sites may exist on access roads
Vascular plants		
Redroot	Found on lakeshores on boulder, cobble, gravel, sand and peat substrates where seasonal flooding, wave action and ice-scour limit the establishment of more competitive species. Redroot tends to be most abundant on windward (west and south-facing) shores where wave action and ice scour are greatest. Although it can occur in areas remaining shallowly inundated throughout most years, flowering occurs primarily toward the landward limit of its shoreline distribution.	Low – clearing not anticipated to intersect preferred habitat
Long's Bulrush	Occurs in wet, acidic, nutrient-poor, open peatlands with limited cover of shrubs or trees taller than the herbaceous shoots. Occurrences are especially frequent in peatlands subject to annual flooding from adjacent streams, rivers and lakes, but also found in peatlands away from watercourses, mostly within seasonally wet areas with low standing biomass.	Moderate – habitat not likely in proposed clearing areas
Lichens		
Wrinkled Shingle Lichen.	Colonizes mature deciduous trees, most often Red Maple that grow near, but not usually within, imperfectly drained habitats, typically on trees close to the edge of treed swamps or floodplains.	Moderate – habitat not likely in proposed clearing areas
Blue Felt Lichen	Prefers the trunks of old growth, broad-leaved trees growing in moist habitats or close to streams and lake margins. Cool, humid woodlands that may be mixed/hardwood or dominated by deciduous trees.	Moderate – habitat not likely in proposed clearing areas
Frosted Glass-whiskers (Atlantic population)	Grows on old deciduous trees, usually on the exposed heartwood of living trunks and more rarely on bark, in humid and shaded situations. Often associated with old-growth forests in coastal regions, but it is also found in open forests, in clearings, and on the margins of old deciduous forests.	Moderate – habitat not likely in proposed clearing areas

Species	Habitat ¹	Probability Ranking
Insects		
Monarch	Milkweed are the sole food plant for Monarch caterpillars. These plants typically grow in open and periodically disturbed habitats, which include roadsides, fields, wetlands, prairies, and open forests.	Moderate – Milkweed may exist along access roads

Sources:
¹GOC 2023

4.0

Recommended Mitigation

To evaluate and determine the potential environmental impacts based on the proposed project, **Table 3** provides a high-level summary of potential effects and recommended mitigation measures to be used in consideration of the planning process.

Table 3: Potential effects and recommended mitigation measures

Environmental Component	Potential Effect	Mitigation Measures
Vegetation Communities	Damage to adjacent vegetation or as a result of accidental intrusion; Removal of vegetation communities	<ul style="list-style-type: none"> Vegetation removal should be kept to a minimum and limited to within the clearing footprint. Vegetation removals should also consider and mitigate potential impacts to sensitive species (e.g., migratory birds and SAR).
	Increased erosion and sedimentation	<ul style="list-style-type: none"> Brush mats should be used to minimize rutting along cleared trails and left in place where possible to minimize the risk of sedimentation into vegetation communities. Stockpiled materials or equipment should be kept at least 30 metres away from any watercourse.
	Soil or water contamination as a result of spills (e.g., grease and/or fuel) from equipment use.	<ul style="list-style-type: none"> A Spill Prevention and Contingency Plan should be developed and adhered to. Spills will be immediately contained and cleaned up in accordance with provincial regulatory requirements and the contingency plan. Refuelling of equipment should occur at least 30 metres away from any watercourse. All machinery, construction equipment and vehicles arriving on site should be in clean condition (e.g., free of fluid leaks, soils containing seeds of plant material from invasive species) in order to prevent the spread of invasive species to new locations.

Environmental Component	Potential Effect	Mitigation Measures
Wildlife and Wildlife Habitat	Disturbance, displacement or mortality of wildlife	<ul style="list-style-type: none"> If wildlife is encountered, measures should be implemented to avoid destruction, injury, or interference with the species, and/or its habitat.
	Disturbance or destruction of migratory bird nests	<ul style="list-style-type: none"> All works must comply with the Migratory Birds Convention Act (MBCA), including timing windows for the nesting period. If activities are proposed to occur during the general nesting period a breeding bird and nest survey should be undertaken prior to required activities. Nest searches by an experienced searcher are required should be completed by a qualified Biologist prior to vegetation removal. If a nest of a migratory bird is found outside of this nesting period (including a ground nest) it still receives protection.
Fish and Fish Habitat	Removal or impacts to wetland, aquatic and riparian vegetation, erosion and sedimentation to waterbodies from clearing; risk of contamination to waterbodies as a result of spills.	<ul style="list-style-type: none"> Shorelines or banks disturbed by clearing activities should be immediately stabilized to prevent erosion and/or sedimentation, preferably through re-vegetation with native species suitable for the site. Brush mats should be used where access road crosses watercourses to minimize rutting and the risk of sedimentation into aquatic environment. A Spill Prevention and Response Plan should be developed before work commences to ensure procedures and policies are in place during construction to minimize impacts to wetlands and watercourses.
Species at Risk	Habitat loss, disturbance and/or mortality to SAR.	<ul style="list-style-type: none"> All requirements of the Endangered Species Act (ESA) and Species at Risk Act (SARA) should be met.

5.0 Summary

This report predominantly documents relevant biodiversity (flora and fauna) and biophysical information pertaining to the proposed clearing and drilling activities associated with a planned Phase II ESA field sampling program at the former Mill Village Mine site. The following provides a summary of key information presented in the report:

- There is one mapped watercourse (unnamed first order tributary to Tumblingdown Brook), and five mapped wetlands located on the subject property. These fall outside the footprint the proposed clearing areas;
- SAR and significant habitats with the potential to occur in the proposed clearing areas were assessed, and habitat suitability was assessed for SAR; and,
- Recommended mitigation measures were outlined for each relevant environmental component.

6.0

Closing

This report was prepared by Dillon on behalf of Build Nova Scotia. Dillon has used the degree of care and skill ordinarily exercised under similar circumstances at the time the work was performed by reputable members of the environmental consulting profession practicing in Canada. Dillon assumes no responsibility for conditions which were beyond its scope of work. There is no warranty expressed or implied by Dillon.

The material in the report reflects Dillon's best judgement in light of the information available to Dillon at the time of preparation. Any use which a third party makes of this report, or any reliance on, or decisions made based on it, are the responsibilities of such third parties. Dillon accepts no responsibilities for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Respectfully submitted,

DILLON CONSULTING LIMITED



Olivia Butty, B.Sc.
Associate

References

AC CDC (Atlantic Canada Conservation Data Center). 2023. DATA REPORT 7833: Mill Village, NS.

GOC (Government of Canada). 2023. Species at Risk Public Registry – Species Search. Available at: <https://species-registry.canada.ca/index-en.html#/species?sortBy=commonNameSort&sortDirection=asc&pageSize=10> Accessed September 2023.

Appendix A

Site Photos



20230720_112443_access road_watercourse
crossing_1 km east



20230720_113048_access road_watercourse
crossing_1 km east



20230720_113100_access road_watercourse
crossing_1 km east



20230720_122542_representative habitat



20230720_124050_representative habitat



20230720_125741_open area near old tailings pile



20230720_125752_tailings area_rock piles



20230720_131533_representative habitat_potential porcupine browse (background)



20230720_132011_representative habitat



20230720_132831_representative habitat_ferns
on the forest floor



20230720_135008_wet area south of tailings
pile_outside proposed clearing



20230720_135200_steep rock pile_tailings area



20230720_145029_potential bat roost habitat in snag tree (background)_south of proposed clearing



20230720_145909_representative habitat



20230720_152208_access road_some shoulder clearing required for equipment access



20230720_152443_access road crosses small unmapped intermittent stream_approx 300m northeast of tailings pile

Appendix B

AC CDC Report

DATA REPORT 7833: Mill Village, NS

Prepared 1 September 2023
by C. Robicheau, Conservation Data
Analyst

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- 2.2 Fauna
- Map 2: Flora and Fauna

3.0 Special Areas

- 3.1 Managed Areas
- 3.2 Significant Areas
- Map 3: Special Areas

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- 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:

<u>Filename</u>	<u>Contents</u>
MillVillageNS_7833ob.xls	Rare or legally-protected Flora and Fauna in your study area
MillVillageNS_7833ob100km.xls	A list of Rare and legally protected Flora and Fauna within 100 km of your study area
MillVillageNS_7833msa.xls	Managed and Biologically Significant Areas in your study area
MillVillageNS_7833ff_py.xls	Rare Freshwater Fish in your study area (DFO database)

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
Senior Scientist / Executive Director
(506) 364-2658
sean.blaney@accdc.ca

Animals (Fauna)

John Klymko
Zoologist
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Data Management, GIS

James Churchill
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Billing

Jean Breau
Financial Manager / Executive Assistant
(506) 364-2657
jean.breau@accdc.ca

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:

Western: Emma Vost
(902) 670-8187
Emma.Vost@novascotia.ca

Western: Sarah Spencer
(902) 541-0081
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Elizabeth.Walsh@novascotia.ca

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

2.0 RARE AND ENDANGERED SPECIES

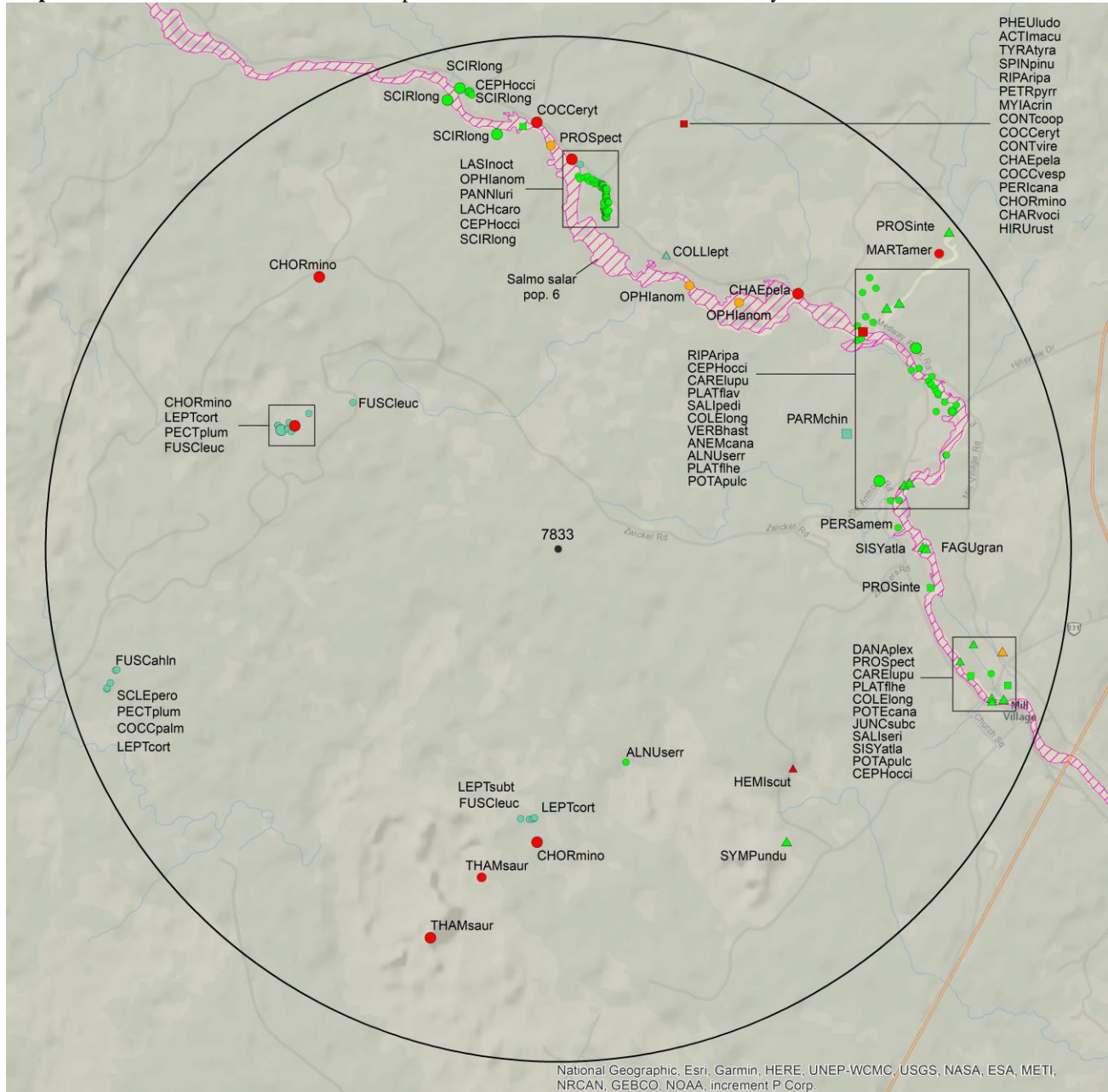
2.1 FLORA

The study area contains 153 records of 21 vascular and 22 records of 10 nonvascular flora (Map 2 and attached: *ob.xls), excluding 'location-sensitive' species.

2.2 FAUNA

The study area contains 45 records of 20 vertebrate and 4 records of 2 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

- 4.7 within 50s of kilometers
- 4.0 within 10s of kilometers
- 3.7 within 5s of kilometers
- △ 3.0 within kilometers
- △ 2.7 within 500s of meters
- ◇ 2.0 within 100s of meters
- ◇ 1.7 within 10s of meters

HIGHER TAXON

- vertebrate fauna
- invertebrate fauna
- vascular flora
- nonvascular flora

3.0 SPECIAL AREAS

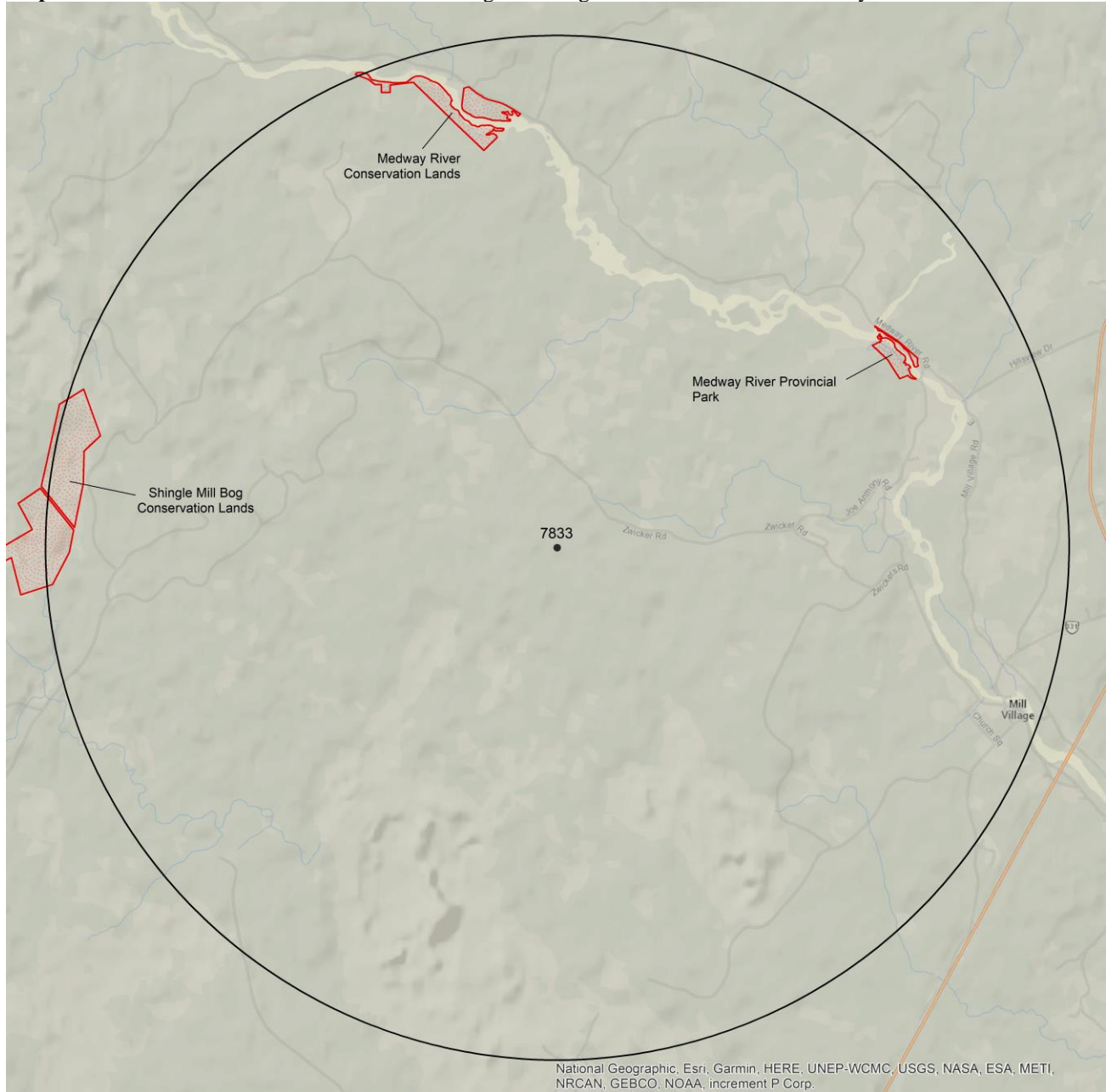
3.1 MANAGED AREAS

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

3.2 SIGNIFICANT AREAS

The GIS scan identified no biologically significant sites in the vicinity of the study area (Map 3 and attached file: *sa*.xls).

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



 Managed Area  Significant 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>Pannaria lurida</i>	Wrinkled Shingle Lichen	Threatened	Threatened	Threatened	S2S3	1	3.8 \pm 0.0
N	<i>Fuscopannaria leucosticta</i>	White-rimmed Shingle Lichen	Threatened			S3	10	2.5 \pm 0.0
N	<i>Pectenaria plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	2	2.9 \pm 0.0
N	<i>Sclerophora peronella</i> (Atlantic pop.)	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern		S3S4	1	4.5 \pm 0.0
N	<i>Collema leptaleum</i>	Crumpled Bat's Wing Lichen				S2S3	1	3.1 \pm 0.0
N	<i>Fuscopannaria ahlneri</i>	Corrugated Shingles Lichen				S3	1	4.5 \pm 0.0
N	<i>Scytinium subtile</i>	Appressed Jellyskin Lichen				S3S4	1	2.7 \pm 0.0
N	<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3S4	3	2.6 \pm 0.0
N	<i>Parmotrema perlatum</i>	Powdered Ruffle Lichen				S3S4	1	3.0 \pm 19.0
N	<i>Coccocarpia palmicola</i>	Salted Shell Lichen				S3S4	1	4.6 \pm 0.0
P	<i>Lachnanthes caroliniana</i>	Redroot	Special Concern	Special Concern	Vulnerable	S2	2	3.6 \pm 0.0
P	<i>Scirpus longii</i>	Long's Bulrush	Special Concern		Vulnerable	S3	82	3.3 \pm 0.0
P	<i>Proserpinaca intermedia</i>	Intermediate Mermaidweed				S1S2	3	3.7 \pm 5.0
P	<i>Anemonastrum canadense</i>	Canada Anemone				S2	3	3.5 \pm 1.0
P	<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchid				S2	4	3.9 \pm 0.0
P	<i>Potentilla canadensis</i>	Canada Cinquefoil				S2S3	1	4.6 \pm 5.0
P	<i>Potamogeton pulcher</i>	Spotted Pondweed			Vulnerable	S3	4	3.2 \pm 0.0
P	<i>Symphyotrichum undulatum</i>	Wavy-leaved Aster				S3	1	3.6 \pm 1.0
P	<i>Alnus serrulata</i>	Smooth Alder				S3	6	2.2 \pm 0.0
P	<i>Cephalanthus occidentalis</i>	Common Buttonbush				S3	21	3.4 \pm 0.0
P	<i>Salix pedicellaris</i>	Bog Willow				S3	7	3.9 \pm 0.0
P	<i>Salix sericea</i>	Silky Willow				S3	2	4.5 \pm 1.0
P	<i>Carex lupulina</i>	Hop Sedge				S3	4	3.4 \pm 1.0
P	<i>Platanthera flava</i>	Southern Rein-Orchid				S3	1	4.1 \pm 1.0
P	<i>Persicaria amphibia</i> var. <i>emersa</i>	Long-root Smartweed				S3?	1	3.3 \pm 0.0
P	<i>Fagus grandifolia</i>	American Beech				S3S4	1	3.6 \pm 1.0
P	<i>Proserpinaca pectinata</i>	Comb-leaved Mermaidweed				S3S4	2	4.1 \pm 5.0
P	<i>Verbena hastata</i>	Blue Vervain				S3S4	2	3.5 \pm 1.0
P	<i>Sisyrinchium atlanticum</i>	Eastern Blue-Eyed-Grass				S3S4	2	3.6 \pm 1.0
P	<i>Juncus subcaudatus</i>	Woods-Rush				S3S4	1	4.6 \pm 5.0
P	<i>Coleataenia longifolia</i>	Long-leaved Panicgrass				S3S4	3	4.1 \pm 0.0

4.2 FAUNA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	<i>Lasionycteris noctivagans</i>	Silver-haired Bat	Endangered			SUB,S1M	2	3.8 \pm 0.0
A	<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2B	4	3.6 \pm 10.0
A	<i>Thamnophis saurita</i>	Eastern Ribbonsnake	Threatened	Threatened	Threatened	S2S3	2	3.3 \pm 0.0
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S1M	2	3.4 \pm 0.0
A	<i>Hirundo rustica</i>	Barn Swallow	Special Concern	Threatened	Endangered	S3B	4	4.3 \pm 7.0
A	<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Special Concern	Threatened	S3B	5	2.8 \pm 0.0
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	1	4.3 \pm 7.0
A	<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	4	4.3 \pm 7.0
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	3	4.3 \pm 7.0
A	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Not At Risk			S3	1	3.1 \pm 0.0

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	<i>Myiarchus crinitus</i>	Great Crested Flycatcher				S1B	1	4.3 ± 7.0
A	<i>Martes americana</i>	American Marten			Endangered	S2S3	1	4.7 ± 0.0
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B	3	4.3 ± 7.0
A	<i>Perisoreus canadensis</i>	Canada Jay				S3	2	4.3 ± 7.0
A	<i>Spinus pinus</i>	Pine Siskin				S3	1	4.3 ± 7.0
A	<i>Charadrius vociferus</i>	Killdeer				S3B	1	4.3 ± 7.0
A	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B	2	4.2 ± 0.0
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	3	4.3 ± 7.0
A	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3B	1	4.3 ± 7.0
A	<i>Actitis macularia</i>	Spotted Sandpiper				S3S4B,S5M	2	4.3 ± 7.0
I	<i>Danaus plexippus</i>	Monarch	Endangered	Special Concern	Endangered	S2?B,S3M	1	4.4 ± 2.0
I	<i>Ophiogomphus anomalus</i>	Extra-Striped Snaketail				S1	3	2.9 ± 0.0

4.3 LOCATION SENSITIVE SPECIES

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

Nova Scotia

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

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.

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
103	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2015. Atlantic Canada Conservation Data Centre Fieldwork 2015. Atlantic Canada Conservation Data Centre, # recs.
21	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
14	Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
13	Blaney, C.S.; Mazerolle, D.M.; Oberndorfer, E. 2007. Fieldwork 2007. Atlantic Canada Conservation Data Centre. Sackville NB, 13770 recs.
13	Newell, R.E. 2000. E.C. Smith Herbarium Database. Acadia University, Wolfville NS, 7139 recs.
12	Newell, R.E. 2005. E.C. Smith Digital Herbarium. E.C. Smith Herbarium, Irving Biodiversity Collection, Acadia University, Web site: http://luxor.acadiau.ca/library/Herbarium/project/ . 582 recs.
9	Neily, T.H. 2017. Nova Scotia lichen records. Mersey Tobeatic Research Institute.
8	Haughian, Sean. 2021. Update to lichen data from 2017-2021. Nova Scotia Museum.
3	Bayne, D.M. 2007. Atlantic Coastal Plain Flora record, 2004-06. Nova Scotia Nature Trust. Pers. comm. to C.S. Blaney, 57 recs.
3	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.
3	iNaturalist. 2020. iNaturalist Data Export 2020. iNaturalist.org and iNaturalist.ca, Web site: 128728 recs.
3	Klymko, J.J.D. 2012. Odonata specimens & observations, 2010. Atlantic Canada Conservation Data Centre, 425 recs.
3	Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2013.
2	Canadian Wildlife Service. 2019. Canadian Protected and Conserved Areas Database (CPCAD). December 2019. ECCC. https://www.canada.ca/en/environment-climate-change/services/national-wildlife-areas/protected-conserved-areas-database.html .
2	McNeil, J.A. 2010. Ribbonsnake (<i>Thamophis sauritus</i>) sightings, 1900-2009. Parks Canada, 2521 recs of 716+ individuals.
2	Phinney, Lori. 2020. Pre- and post White-nose Syndrome bat acoustic monitoring, NS. Mersey Tobeatic Research Institute, 1279 recs.
2	Pronych, G. & Wilson, A. 1993. Atlas of Rare Vascular Plants in Nova Scotia. Nova Scotia Museum, Halifax NS, I:1-168, II:169-331. 1446 recs.
2	Staicer, Cindy. 2023. 2022 SAR Bird ARU occurrences. Dalhousie University, 379 records.

# recs	CITATION
1	Benjamin, L.K. (compiler). 2007. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 8439 recs.
1	Benjamin, L.K. (compiler). 2012. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 4965 recs.
1	Blaney, C.S.; Mazerolle, D.M. 2009. Fieldwork 2009. Atlantic Canada Conservation Data Centre. Sackville NB, 13395 recs.
1	Clayden, S. Digitization of Wolfgang Maass Nova Scotia forest lichen collections, 1964-2004. New Brunswick Museum. 2018.
1	eBird. 2020. eBird Basic Dataset. Version: EBD_relNov-2019. Ithaca, New York. Nov 2019, Cape Breton Bras d'Or Lakes Watershed subset. Cornell Lab of Ornithology.
1	Edsall, J. 2007. Personal Butterfly Collection: specimens collected in the Canadian Maritimes, 1961-2007. J. Edsall, unpubl. report, 137 recs.
1	Haughian, S.R. 2018. Description of Fuscopannaria leucosticta field work in 2017. New Brunswick Museum, 314 recs.
1	Nova Scotia Department of Lands and Forestry. 2020. NS Lands Proposed or Pending Protection. NSDLF, 231 features. Received via email.
1	Richardson, D., Anderson, F., Cameron, R., Pepper, C., Clayden, S. 2015. Field Work Report on the Wrinkled Shingle lichen (<i>Pannaria lurida</i>). COSEWIC.
1	Scott, F.W. 2002. Nova Scotia Herpetofauna Atlas Database. Acadia University, Wolfville NS, 8856 recs.

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 52048 records of 156 vertebrate and 1339 records of 61 invertebrate fauna; 20121 records of 224 vascular and 7003 records of 196 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	146	16.1 \pm 1.0	NS
A	<i>Myotis lucifugus</i>	Little Brown Myotis	Endangered	Endangered	Endangered	S1	736	3.8 \pm 0.0	NS
A	<i>Myotis septentrionalis</i>	Northern Myotis	Endangered	Endangered	Endangered	S1	103	3.8 \pm 0.0	NS
A	<i>Perimyotis subflavus</i>	Tricolored Bat	Endangered	Endangered	Endangered	S1	200	3.8 \pm 0.0	NS
A	<i>Emydoidea blandingii</i>	Blanding's Turtle	Endangered	Endangered	Endangered	S1	10325	10.7 \pm 0.0	NS
A	<i>Salmo salar pop. 1</i>	Atlantic Salmon - Inner Bay of Fundy population	Endangered	Endangered		S1	10	81.1 \pm 0.0	NS
A	<i>Salmo salar pop. 6</i>	Atlantic Salmon - Nova Scotia Southern Upland population	Endangered			S1	21	6.7 \pm 0.0	NS
A	<i>Eubalaena glacialis</i>	North Atlantic Right Whale	Endangered	Endangered		S1	1	96.4 \pm 50.0	NS
A	<i>Charadrius melodus melodus</i>	Piping Plover melodus subspecies	Endangered	Endangered	Endangered	S1B	2204	12.1 \pm 0.0	NS
A	<i>Sterna dougallii</i>	Roseate Tern	Endangered	Endangered	Endangered	S1B	63	15.4 \pm 0.0	NS
A	<i>Dermochelys coriacea pop. 2</i>	Leatherback Sea Turtle - Atlantic population	Endangered	Endangered		S1S2N	3	41.3 \pm 1.0	NS
A	<i>Morone saxatilis pop. 2</i>	Striped Bass - Bay of Fundy population	Endangered			S2S3B,S2S3N	2	88.6 \pm 1.0	NS
A	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	Endangered	Threatened		SNA	2	92.2 \pm 0.0	NS
A	<i>Protonotaria citrea</i>	Prothonotary Warbler	Endangered	Endangered		SNA	4	96.1 \pm 0.0	NS
A	<i>Icteria virens</i>	Yellow-Breasted Chat	Endangered	Endangered		SNA	4	23.3 \pm 0.0	NS
A	<i>Brosme brosme</i>	Cusk	Endangered		Endangered	SNR	1	81.0 \pm 0.0	NS
A	<i>Lasiurus cinereus</i>	Hoary Bat	Endangered			SUB, S1M	56	10.7 \pm 0.0	NS
A	<i>Lasiorycteris noctivagans</i>	Silver-haired Bat	Endangered			SUB,S1M	13	3.8 \pm 0.0	NS
A	<i>Lasiurus borealis</i>	Eastern Red Bat	Endangered			SUB,S1M	6	74.0 \pm 0.0	NS
A	<i>Colinus virginianus</i>	Northern Bobwhite	Endangered	Endangered			9	25.5 \pm 7.0	NS
A	<i>Asio flammeus</i>	Short-eared Owl	Threatened	Special Concern		S1B	5	60.9 \pm 0.0	NS
A	<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	Threatened	S2	1046	4.3 \pm 10.0	NS
A	<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2B	645	3.6 \pm 10.0	NS
A	<i>Thamnophis saurita</i>	Eastern Ribbonsnake	Threatened	Threatened	Threatened	S2S3	2503	3.3 \pm 0.0	NS
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S1M	1148	3.4 \pm 0.0	NS
A	<i>Limosa haemastica</i>	Hudsonian Godwit	Threatened			S2S3M	151	15.4 \pm 0.0	NS
A	<i>Hydrobates leucorhous</i>	Leach's Storm-Petrel	Threatened			S3B	27	21.6 \pm 7.0	NS
A	<i>Tringa flavipes</i>	Lesser Yellowlegs	Threatened			S3M	592	11.7 \pm 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Anguilla rostrata</i>	American Eel	Threatened			S3N	294	6.7 ± 1.0	NS
A	<i>Sturnella magna</i>	Eastern Meadowlark	Threatened	Threatened		SHB	5	61.6 ± 7.0	NS
A	<i>Hylocichla mustelina</i>	Wood Thrush	Threatened	Threatened		SUB	24	15.9 ± 7.0	NS
A	<i>Antrostomus vociferus</i>	Eastern Whip-Poor-Will	Special Concern	Threatened	Threatened	S1?B	9	26.6 ± 7.0	NS
A	<i>Passerculus sandwichensis princeps</i>	Ipswich Sparrow	Special Concern	Special Concern		S1B	4	16.4 ± 0.0	NS
A	<i>Bucephala islandica</i>	Barrow's Goldeneye	Special Concern	Special Concern		S1N,SUM	6	31.5 ± 0.0	NS
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	310	9.7 ± 7.0	NS
A	<i>Balaenoptera physalus</i>	Fin Whale	Special Concern	Special Concern		S2S3	3	39.2 ± 0.0	NS
A	<i>Phalaropus lobatus</i>	Red-necked Phalarope	Special Concern	Special Concern		S2S3M	10	15.4 ± 0.0	NS
A	<i>Histrionicus histrionicus pop. 1</i>	Harlequin Duck - Eastern population	Special Concern	Special Concern	Endangered	S2S3N,SUM	79	14.1 ± 1.0	NS
A	<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	788	5.7 ± 0.0	NS
A	<i>Hirundo rustica</i>	Barn Swallow	Special Concern	Threatened	Endangered	S3B	1092	4.3 ± 7.0	NS
A	<i>Cardellina canadensis</i>	Canada Warbler	Special Concern	Threatened	Endangered	S3B	839	6.0 ± 7.0	NS
A	<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Special Concern	Threatened	S3B	800	2.8 ± 0.0	NS
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	1347	4.3 ± 7.0	NS
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Special Concern	Threatened	Vulnerable	S3B	1045	6.0 ± 7.0	NS
A	<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	802	4.3 ± 7.0	NS
A	<i>Podiceps auritus</i>	Horned Grebe	Special Concern	Special Concern		S3N,SUM	25	22.0 ± 10.0	NS
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	1304	4.3 ± 7.0	NS
A	<i>Phocoena phocoena</i>	Harbour Porpoise	Special Concern			S4	10	32.3 ± 1.0	NS
A	<i>Phocoena phocoena pop. 1</i>	Harbour Porpoise - Northwest Atlantic Population	Special Concern			S4	1	36.4 ± 0.0	NS
A	<i>Chrysemys picta</i>	Painted Turtle	Special Concern	Special Concern		S4	126	10.7 ± 0.0	NS
A	<i>Chrysemys picta picta</i>	Eastern Painted Turtle	Special Concern	Special Concern		S4	939	5.0 ± 0.0	NS
A	<i>Calidris subruficollis</i>	Buff-breasted Sandpiper	Special Concern	Special Concern		SNA	54	15.4 ± 0.0	NS
A	<i>Anarhichas lupus</i>	Atlantic Wolffish	Special Concern	Special Concern		SNR	6	53.1 ± 0.0	NS
A	<i>Accipiter cooperii</i>	Cooper's Hawk	Not At Risk			S1?B,SUN,SUM	3	88.2 ± 0.0	NS
A	<i>Fulica americana</i>	American Coot	Not At Risk			S1B	7	29.7 ± 0.0	NS
A	<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius	Not At Risk		Vulnerable	S1B,SUM	27	37.8 ± 0.0	NS
A	<i>Lynx canadensis</i>	Canada Lynx	Not At Risk		Endangered	S2S3	2	29.5 ± 1.0	NS
A	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Not At Risk			S3	38	3.1 ± 0.0	NS
A	<i>Megaptera novaeangliae</i>	Humpback Whale	Not At Risk			S3	2	95.8 ± 3.0	NS
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B	322	9.7 ± 7.0	NS
A	<i>Sialia sialis</i>	Eastern Bluebird	Not At Risk			S3B	36	35.5 ± 0.0	NS
A	<i>Accipiter gentilis</i>	Northern Goshawk	Not At Risk			S3S4	83	12.7 ± 7.0	NS
A	<i>Glaucomys volans</i>	Southern Flying Squirrel	Not At Risk			S3S4	14	18.0 ± 0.0	NS
A	<i>Lagenorhynchus acutus</i>	Atlantic White-sided Dolphin	Not At Risk			S3S4	3	36.7 ± 2.0	NS
A	<i>Ammodramus nelsoni</i>	Nelson's Sparrow	Not At Risk			S3S4B	92	6.0 ± 7.0	NS
A	<i>Calidris canutus rufa</i>	Red Knot rufa subspecies	E,SC	Endangered	Endangered	S2M	624	15.4 ± 0.0	NS
A	<i>Calidris canutus</i>	Red Knot	E,SC	E,T		S2M	2	11.9 ± 0.0	NS
A	<i>Morone saxatilis</i>	Striped Bass	E,SC			S2S3B,S2S3N	8	15.7 ± 1.0	NS
A	<i>Gadus morhua</i>	Atlantic Cod	E,SC,DD			SNR	6	72.7 ± 0.0	NS
A	<i>Salmo salar</i>	Atlantic Salmon	E,T,SC			S1B,S1N	4	32.3 ± 0.0	NS
A	<i>Odobenus rosmarus pop. 5</i>	Atlantic Walrus - Nova Scotia - Newfoundland - Gulf of St Lawrence population	X			SX	1	92.8 ± 5.0	NS
A	<i>Alces alces americana</i>	Moose			Endangered	S1	134	18.7 ± 0.0	NS
A	<i>Alces alces</i>	Moose				S1	11	49.9 ± 0.0	NS
A	<i>Uria aalge</i>	Common Murre				S1?B	1	96.0 ± 0.0	NS
A	<i>Passerina cyanea</i>	Indigo Bunting				S1?B,SUM	18	15.9 ± 7.0	NS
A	<i>Oxyura jamaicensis</i>	Ruddy Duck				S1B	8	87.0 ± 7.0	NS
A	<i>Gallinula galeata</i>	Common Gallinule				S1B	9	35.9 ± 0.0	NS
A	<i>Myiarchus crinitus</i>	Great Crested Flycatcher				S1B	38	4.3 ± 7.0	NS
A	<i>Cistothorus palustris</i>	Marsh Wren				S1B	5	34.3 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Mimus polyglottos</i>	Northern Mockingbird				S1B	24	6.0 ± 7.0	NS
A	<i>Toxostoma rufum</i>	Brown Thrasher				S1B	11	27.3 ± 7.0	NS
A	<i>Charadrius semipalmatus</i>	Semipalmated Plover				S1B,S4M	1564	12.4 ± 0.0	NS
A	<i>Calidris minutilla</i>	Least Sandpiper				S1B,S4M	1109	11.7 ± 0.0	NS
A	<i>Anas acuta</i>	Northern Pintail				S1B,SUM	22	12.7 ± 7.0	NS
A	<i>Vireo gilvus</i>	Warbling Vireo				S1B,SUM	6	37.9 ± 0.0	NS
A	<i>Vespertilionidae sp.</i>	bat species				S1S2	350	3.8 ± 0.0	NS
A	<i>Poocetes gramineus</i>	Vesper Sparrow				S1S2B,SUM	24	14.2 ± 7.0	NS
A	<i>Vireo philadelphicus</i>	Philadelphia Vireo				S2?B,SUM	18	25.7 ± 7.0	NS
A	<i>Alca torda</i>	Razorbill				S2B	34	56.6 ± 7.0	NS
A	<i>Fratercula arctica</i>	Atlantic Puffin				S2B	35	52.4 ± 4.0	NS
A	<i>Empidonax traillii</i>	Willow Flycatcher				S2B	45	29.4 ± 7.0	NS
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S2B	132	6.0 ± 7.0	NS
A	<i>Spatula clypeata</i>	Northern Shoveler				S2B,SUM	72	37.8 ± 0.0	NS
A	<i>Mareca strepera</i>	Gadwall				S2B,SUM	91	86.8 ± 7.0	NS
A	<i>Piranga olivacea</i>	Scarlet Tanager				S2B,SUM	53	18.1 ± 7.0	NS
A	<i>Calidris alba</i>	Sanderling				S2N,S3M	1400	15.1 ± 0.0	NS
A	<i>Martes americana</i>	American Marten			Endangered	S2S3	19	4.7 ± 0.0	NS
A	<i>Asio otus</i>	Long-eared Owl				S2S3	13	32.1 ± 7.0	NS
A	<i>Rallus limicola</i>	Virginia Rail				S2S3B	16	25.6 ± 0.0	NS
A	<i>Rissa tridactyla</i>	Black-legged Kittiwake				S2S3B	18	39.6 ± 0.0	NS
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B	201	4.3 ± 7.0	NS
A	<i>Phalacrocorax carbo</i>	Great Cormorant				S2S3B,S2S3N	51	13.5 ± 0.0	NS
A	<i>Cathartes aura</i>	Turkey Vulture				S2S3B,S4S5M	83	13.9 ± 0.0	NS
A	<i>Setophaga pinus</i>	Pine Warbler				S2S3B,S4S5M	23	20.1 ± 0.0	NS
A	<i>Bucephala clangula</i>	Common Goldeneye				S2S3B,S5N,S5M	135	11.3 ± 0.0	NS
A	<i>Icterus galbula</i>	Baltimore Oriole				S2S3B,SUM	76	9.7 ± 7.0	NS
A	<i>Pluvialis dominica</i>	American Golden-Plover				S2S3M	231	15.4 ± 0.0	NS
A	<i>Numenius phaeopus</i>	Whimbrel				S2S3M	6	14.7 ± 0.0	NS
A	<i>Numenius phaeopus hudsonicus</i>	Whimbrel				S2S3M	336	13.8 ± 0.0	NS
A	<i>Phalaropus fulicarius</i>	Red Phalarope				S2S3M	2	25.7 ± 0.0	NS
A	<i>Perisoreus canadensis</i>	Canada Jay				S3	473	4.3 ± 7.0	NS
A	<i>Poecile hudsonicus</i>	Boreal Chickadee				S3	309	6.0 ± 7.0	NS
A	<i>Spinus pinus</i>	Pine Siskin				S3	389	4.3 ± 7.0	NS
A	<i>Salvelinus fontinalis</i>	Brook Trout				S3	63	11.0 ± 0.0	NS
A	<i>Sorex maritimensis</i>	Maritime Shrew				S3	1	89.6 ± 0.0	NS
A	<i>Pekania pennanti</i>	Fisher				S3	16	7.3 ± 5.0	NS
A	<i>Calcarius lapponicus</i>	Lapland Longspur				S3?N,SUM	2	79.4 ± 0.0	NS
A	<i>Spatula discors</i>	Blue-winged Teal				S3B	84	12.0 ± 7.0	NS
A	<i>Charadrius vociferus</i>	Killdeer				S3B	349	4.3 ± 7.0	NS
A	<i>Tringa semipalmata</i>	Willet				S3B	1953	5.5 ± 0.0	NS
A	<i>Sterna paradisaea</i>	Arctic Tern				S3B	89	14.0 ± 0.0	NS
A	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B	42	4.2 ± 0.0	NS
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	178	4.3 ± 7.0	NS
A	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3B	296	4.3 ± 7.0	NS
A	<i>Alosa pseudoharengus</i>	Alewife				S3B	14	29.6 ± 0.0	NS
A	<i>Somateria mollissima</i>	Common Eider				S3B,S3M,S3N	528	6.0 ± 7.0	NS
A	<i>Tringa melanoleuca</i>	Greater Yellowlegs				S3B,S4M	1468	11.7 ± 0.0	NS
A	<i>Falco sparverius</i>	American Kestrel				S3B,S4S5M	151	10.5 ± 7.0	NS
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3B,S5M	375	6.0 ± 7.0	NS
A	<i>Setophaga striata</i>	Blackpoll Warbler				S3B,S5M	55	12.7 ± 7.0	NS
A	<i>Cardellina pusilla</i>	Wilson's Warbler				S3B,S5M	56	14.2 ± 7.0	NS
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S3B,S5N,S5M	103	6.0 ± 7.0	NS
A	<i>Setophaga tigrina</i>	Cape May Warbler				S3B,SUM	60	37.7 ± 0.0	NS
A	<i>Branta bernicla</i>	Brant				S3M	1	87.7 ± 12.0	NS
A	<i>Pluvialis squatarola</i>	Black-bellied Plover				S3M	1733	13.3 ± 0.0	NS
A	<i>Arenaria interpres</i>	Ruddy Turnstone				S3M	738	13.3 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Calidris pusilla</i>	Semipalmated Sandpiper				S3M	1427	15.4 ± 0.0	NS
A	<i>Calidris melanotos</i>	Pectoral Sandpiper				S3M	296	13.8 ± 0.0	NS
A	<i>Limnodromus griseus</i>	Short-billed Dowitcher				S3M	1035	11.7 ± 0.0	NS
A	<i>Chroicocephalus ridibundus</i>	Black-headed Gull				S3N	4	18.0 ± 0.0	NS
A	<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4	78	24.3 ± 0.0	NS
A	<i>Loxia curvirostra</i>	Red Crossbill				S3S4	324	6.0 ± 7.0	NS
A	<i>Sorex albibarbis</i>	Eastern Water Shrew				S3S4	1	66.9 ± 0.0	NS
A	<i>Botaurus lentiginosus</i>	American Bittern				S3S4B,S4S5M	243	18.1 ± 7.0	NS
A	<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B,S4S5M	258	6.0 ± 7.0	NS
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B,S5M	667	4.3 ± 7.0	NS
A	<i>Leiothlypis peregrina</i>	Tennessee Warbler				S3S4B,S5M	133	6.0 ± 7.0	NS
A	<i>Passerella iliaca</i>	Fox Sparrow				S3S4B,S5M	62	9.7 ± 7.0	NS
A	<i>Mergus serrator</i>	Red-breasted Merganser				S3S4B,S5M,S5N	105	12.0 ± 7.0	NS
A	<i>Calidris maritima</i>	Purple Sandpiper				S3S4N	190	10.7 ± 0.0	NS
A	<i>Lanius borealis</i>	Northern Shrike				S3S4N	1	96.7 ± 0.0	NS
A	<i>Morus bassanus</i>	Northern Gannet				SHB	39	19.0 ± 0.0	NS
A	<i>Aythya americana</i>	Redhead				SHB	1	60.2 ± 0.0	NS
A	<i>Leucophaeus atricilla</i>	Laughing Gull				SHB	3	15.2 ± 0.0	NS
A	<i>Progne subis</i>	Purple Martin				SHB	3	61.3 ± 7.0	NS
A	<i>Eremophila alpestris</i>	Horned Lark				SHB,S4S5N,S5M	6	15.3 ± 0.0	NS
I	<i>Bombus bohemicus</i>	Ashton Cuckoo Bumble Bee	Endangered	Endangered	Endangered	S1	8	16.5 ± 5.0	NS
I	<i>Epeoloides pilosulus</i>	Macropis Cuckoo Bee	Endangered	Endangered	Endangered	S1	2	92.6 ± 5.0	NS
I	<i>Danaus plexippus</i>	Monarch	Endangered	Special Concern	Endangered	S2?B,S3M	743	4.4 ± 2.0	NS
I	<i>Danaus plexippus plexippus</i>	Monarch	Endangered	Special Concern		S2?B,S3M	1	92.2 ± 0.0	NS
I	<i>Bombus suckleyi</i>	Suckley's Cuckoo Bumble Bee	Threatened			SH	1	29.6 ± 5.0	NS
I	<i>Alasmodonta varicosa</i>	Brook Floater	Special Concern	Special Concern	Threatened	S3	2	30.5 ± 0.0	NS
I	<i>Bombus terricola</i>	Yellow-banded Bumble Bee	Special Concern	Special Concern	Vulnerable	S3	139	12.3 ± 0.0	NS
I	<i>Coccinella transversoguttata richardsoni</i>	Transverse Lady Beetle	Special Concern		Endangered	SH	1	91.8 ± 2.0	NS
I	<i>Ophiogomphus anomalus</i>	Extra-Striped Snaketail				S1	8	2.9 ± 0.0	NS
I	<i>Pachydiplax longipennis</i>	Blue Dasher				S1	1	97.8 ± 0.0	NS
I	<i>Polygonia comma</i>	Eastern Comma				S1?	1	98.4 ± 2.0	NS
I	<i>Polygonia satyrus</i>	Satyr Comma				S1?	3	96.9 ± 2.0	NS
I	<i>Tharsalea dospassosi</i>	Maritime Copper				S2	2	52.1 ± 2.0	NS
I	<i>Margaritifera margaritifera</i>	Eastern Pearlshell				S2	9	21.9 ± 0.0	NS
I	<i>Pantala hymenaea</i>	Spot-Winged Glider				S2?B	1	66.6 ± 0.0	NS
I	<i>Nymphalis l-album</i>	Compton Tortoiseshell				S2S3	12	39.7 ± 2.0	NS
I	<i>Aglais milberti</i>	Milbert's Tortoiseshell				S2S3	1	92.2 ± 2.0	NS
I	<i>Somatochlora kennedyi</i>	Kennedy's Emerald				S2S3	4	9.1 ± 0.0	NS
I	<i>Somatochlora williamsoni</i>	Williamson's Emerald				S2S3	1	92.5 ± 0.0	NS
I	<i>Williamsonia fletcheri</i>	Ebony Boghaunter				S2S3	3	11.0 ± 0.0	NS
I	<i>Enallagma geminatum</i>	Skimming Bluet				S2S3	4	35.2 ± 0.0	NS
I	<i>Stylurus scudderi</i>	Zebra Clubtail				S2S3	22	87.9 ± 0.0	NS
I	<i>Strophiona nitens</i>	Chestnut Bark Long-horned Beetle				S3	4	64.3 ± 0.0	NS
I	<i>Lebia ornata</i>	Ornate Harp Ground Beetle				S3	1	24.1 ± 0.0	NS
I	<i>Hippodamia parenthesis</i>	Parenthesis Lady Beetle				S3	3	27.8 ± 0.0	NS
I	<i>Disonycha pensylvanica</i>	Pennsylvania Flea Beetle				S3	1	93.3 ± 0.0	NS
I	<i>Naemia seriata</i>	Seaside Lady Beetle				S3	7	56.1 ± 0.0	NS
I	<i>Pachyrhinus elegans</i>	Elegant Broad-nosed Weevil				S3	1	24.8 ± 0.0	NS
I	<i>Elateroides lugubris</i>	Sapwood Ship-timber Beetle				S3	1	98.2 ± 0.0	NS
I	<i>Chilocorus stigma</i>	Twice-stabbed Lady Beetle				S3	9	27.6 ± 0.0	NS
I	<i>Myzia pullata</i>	Streaked Lady Beetle				S3	1	93.2 ± 0.0	NS
I	<i>Dicerca tenebrosa</i>	Dark Jewel Beetle				S3	1	88.2 ± 0.0	NS
I	<i>Dicerca tuberculata</i>	Swollen Jewel Beetle				S3	1	96.8 ± 9.0	NS
I	<i>Astylopsis sexguttata</i>	Six-speckled Long-horned Beetle				S3	1	35.9 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
I	<i>Satyrium calanus</i>	Banded Hairstreak				S3	6	31.1 ± 0.0	NS
I	<i>Callophrys lanoraieensis</i>	Bog Elfin				S3	15	29.1 ± 2.0	NS
I	<i>Strymon melinus</i>	Gray Hairstreak				S3	17	5.9 ± 0.0	NS
I	<i>Ophiogomphus aspersus</i>	Brook Snaketail				S3	3	38.3 ± 1.0	NS
I	<i>Ophiogomphus mainensis</i>	Maine Snaketail				S3	9	13.8 ± 0.0	NS
I	<i>Ophiogomphus rupinsulensis</i>	Rusty Snaketail				S3	12	5.9 ± 0.0	NS
I	<i>Epitheca princeps</i>	Prince Baskettail				S3	10	10.4 ± 1.0	NS
I	<i>Somatochlora forcipata</i>	Forcipate Emerald				S3	3	11.0 ± 0.0	NS
I	<i>Enallagma vernale</i>	Vernal Bluet				S3	2	85.7 ± 1.0	NS
I	<i>Polygonia interrogationis</i>	Question Mark				S3B	31	10.5 ± 0.0	NS
I	<i>Lepturoopsis biforis</i>	Two-spotted Long-horned Beetle				S3S4	1	60.1 ± 0.0	NS
I	<i>Amblyscirtes hegon</i>	Pepper and Salt Skipper				S3S4	3	93.7 ± 7.0	NS
I	<i>Cupido comyntas</i>	Eastern Tailed Blue				S3S4	12	18.9 ± 1.0	NS
I	<i>Argynnis aphrodite</i>	Aphrodite Fritillary				S3S4	11	29.1 ± 2.0	NS
I	<i>Polygonia faunus</i>	Green Comma				S3S4	5	92.1 ± 20.0	NS
I	<i>Aeshna clepsydra</i>	Mottled Darner				S3S4	40	8.5 ± 0.0	NS
I	<i>Aeshna constricta</i>	Lance-Tipped Darner				S3S4	2	91.4 ± 0.0	NS
I	<i>Boyeria grafiana</i>	Ocellated Darner				S3S4	18	5.9 ± 0.0	NS
I	<i>Gomphaeschna furcillata</i>	Harlequin Darner				S3S4	38	11.0 ± 0.0	NS
I	<i>Somatochlora franklini</i>	Delicate Emerald				S3S4	1	72.6 ± 1.0	NS
I	<i>Erythrodiplax berenice</i>	Seaside Dragonlet				S3S4	29	15.5 ± 0.0	NS
I	<i>Nannothemis bella</i>	Elfin Skimmer				S3S4	35	11.0 ± 0.0	NS
I	<i>Sympetrum danae</i>	Black Meadowhawk				S3S4	1	59.7 ± 0.0	NS
I	<i>Enallagma vesperum</i>	Vesper Bluet				S3S4	27	8.5 ± 0.0	NS
I	<i>Amphiagrion saucium</i>	Eastern Red Damsel				S3S4	3	96.1 ± 1.0	NS
I	<i>Icaricia saepiolus</i>	Greenish Blue				SH	1	98.4 ± 2.0	NS
I	<i>Chlosyne nycteis</i>	Silvery Checkerspot				SH	4	71.7 ± 2.0	NS
N	<i>Erioderma mollissimum</i>	Graceful Felt Lichen	Endangered	Endangered	Endangered	S1	326	16.5 ± 0.0	NS
N	<i>Erioderma pedicellatum</i> (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1	70	37.8 ± 0.0	NS
N	<i>Peltigera hydrothyria</i>	Eastern Waterfan	Threatened	Threatened	Threatened	S1	2	87.9 ± 0.0	NS
N	<i>Pannaria lurida</i>	Wrinkled Shingle Lichen	Threatened	Threatened	Threatened	S2S3	337	3.8 ± 0.0	NS
N	<i>Pannaria lurida ssp. russellii</i>	Wrinkled Shingle Lichen	Threatened	Threatened		S2S3	1	45.8 ± 0.0	NS
N	<i>Anzia colpodes</i>	Black-foam Lichen	Threatened	Threatened	Threatened	S3	295	6.4 ± 4.0	NS
N	<i>Fuscopannaria leucosticta</i>	White-rimmed Shingle Lichen	Threatened			S3	574	2.5 ± 0.0	NS
N	<i>Heterodermia squamulosa</i>	Scaly Fringe Lichen	Threatened			S3	41	14.0 ± 0.0	NS
N	<i>Pectenaria plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	832	2.9 ± 0.0	NS
N	<i>Sclerophora peronella</i> (Atlantic pop.)	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern		S3S4	126	4.5 ± 0.0	NS
N	<i>Pseudevernia cladonia</i>	Ghost Antler Lichen	Not At Risk			S2S3	26	16.0 ± 0.0	NS
N	<i>Fissidens exilis</i>	Pygmy Pocket Moss	Not At Risk			S3	3	93.6 ± 3.0	NS
N	<i>Orthotrichum gymnostomum</i>	Aspen Bristle Moss				S1	1	95.1 ± 0.0	NS
N	<i>Orthotrichum pallens</i>	Pale Bristle Moss				S1	1	47.0 ± 0.0	NS
N	<i>Sematophyllum demissum</i>	a Moss				S1	1	44.3 ± 1.0	NS
N	<i>Cyrto-hypnum minutulum</i>	Tiny Cedar Moss				S1	1	48.4 ± 0.0	NS
N	<i>Umbilicaria vellea</i>	Grizzled Rocktripe Lichen				S1	4	24.3 ± 0.0	NS
N	<i>Heterodermia leucomela</i>	Elegant Fringe Lichen				S1	1	19.5 ± 0.0	NS
N	<i>Scytinium dactylinum</i>	Brown-buttoned Jellyskin Lichen				S1	1	96.4 ± 0.0	NS
N	<i>Flavoparmelia baltimorensis</i>	Rock Greenshield Lichen				S1	2	39.4 ± 1.0	NS
N	<i>Ephebe hispidula</i>	Dryside Rockshag Lichen				S1	2	24.7 ± 1.0	NS
N	<i>Ephebe perspinulosa</i>	Thread Lichen				S1	1	95.6 ± 0.0	NS
N	<i>Lichina confinis</i>	Marine Seaweed Lichen				S1	2	97.1 ± 1.0	NS
N	<i>Parmotrema perforatum</i>	Perforated Ruffle Lichen				S1	46	27.4 ± 0.0	NS
N	<i>Polychidium muscicola</i>	Eyed Mossthorns Woollybear Lichen				S1	3	84.3 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	<i>Pseudevernia consocians</i>	Common Antler Lichen			S1		1	30.0 ± 0.0	NS
N	<i>Spilonema revertens</i>	Rock Hairball Lichen			S1		4	92.8 ± 0.0	NS
N	<i>Sticta limbata</i>	Powdered Moon Lichen			S1		9	54.3 ± 0.0	NS
N	<i>Dermatocarpon minutum</i>	Common Stippleback Lichen			S1		1	98.3 ± 0.0	NS
N	<i>Leptogium hibernicum</i>	Hibernia Jellyskin Lichen			S1		62	56.7 ± 0.0	NS
N	<i>Hypotrachyna horrescens</i>	Hairy-spined Shield Lichen			S1		3	69.2 ± 0.0	NS
N	<i>Peltigera lepidophora</i>	Scaly Pelt Lichen			S1		2	65.4 ± 0.0	NS
N	<i>Hypogymnia hultenii</i>	Powdered Honeycomb Lichen			S1		3	60.5 ± 0.0	NS
N	<i>Calypogeia neogaea</i>	Common Pouchwort			S1?		1	58.7 ± 0.0	NS
N	<i>Jubula pennsylvanica</i>	a liverwort			S1?		2	94.3 ± 0.0	NS
N	<i>Imbricium muehlenbeckii</i>	Muehlenbeck's Bryum Moss			S1?		2	87.7 ± 0.0	NS
N	<i>Campylostelium saxicola</i>	a Moss			S1?		1	29.4 ± 1.0	NS
N	<i>Cirriphyllum piliferum</i>	Hair-pointed Moss			S1?		1	96.5 ± 0.0	NS
N	<i>Conardia compacta</i>	Coast Creeping Moss			S1?		1	73.3 ± 2.0	NS
N	<i>Grimmia anodon</i>	Toothless Grimmiid Moss			S1?		2	51.7 ± 3.0	NS
N	<i>Homomallium adnatum</i>	Adnate Hairy-gray Moss			S1?		2	49.7 ± 5.0	NS
N	<i>Meesia triquetra</i>	Three-ranked Cold Moss			S1?		3	95.6 ± 0.0	NS
N	<i>Physcomitrium immersum</i>	a Moss			S1?		4	91.5 ± 0.0	NS
N	<i>Sphagnum cyclophyllum</i>	a Moss			S1?		33	81.2 ± 1.0	NS
N	<i>Sphagnum molle</i>	Blushing Peat Moss			S1?		2	89.7 ± 0.0	NS
N	<i>Trichodon cylindricus</i>	Cylindric Hairy-teeth Moss			S1?		2	91.3 ± 0.0	NS
N	<i>Plagiomnium ellipticum</i>	Marsh Leafy Moss			S1?		1	93.1 ± 0.0	NS
N	<i>Syntrichia ruralis</i>	a Moss			S1?		2	61.3 ± 0.0	NS
N	<i>Euopsis granatina</i>	Lesser Rockbud Lichen			S1?		1	96.8 ± 1.0	NS
N	<i>Scytinium intermedium</i>	Forty-five Jellyskin Lichen			S1?		1	88.3 ± 1.0	NS
N	<i>Melanelia culbersonii</i>	Appalachian Camouflage Lichen			S1?		1	65.5 ± 0.0	NS
N	<i>Metzgeria crassipilis</i>	Hairy Veilwort			S1S2		3	26.2 ± 0.0	NS
N	<i>Porella pinnata</i>	Pinnate Scalewort			S1S2		2	20.4 ± 0.0	NS
N	<i>Reboulia hemisphaerica</i>	Purple-margined Liverwort			S1S2		1	96.9 ± 0.0	NS
N	<i>Arrhenopterum heterostichum</i>	One-sided Groove Moss			S1S2		1	40.1 ± 5.0	NS
N	<i>Didymodon rigidulus</i>	Rigid Screw Moss			S1S2		2	51.3 ± 0.0	NS
N	<i>Tortula acaulon</i>	Cuspidate Earth Moss			S1S2		5	88.6 ± 0.0	NS
N	<i>Plagiothecium latebricola</i>	Alder Silk Moss			S1S2		1	59.3 ± 5.0	NS
N	<i>Sematophyllum marylandicum</i>	a Moss			S1S2		1	51.2 ± 0.0	NS
N	<i>Sphagnum trinitense</i>	a peatmoss			S1S2		6	89.4 ± 0.0	NS
N	<i>Tortula mucronifolia</i>	Mucronate Screw Moss			S1S2		1	51.7 ± 3.0	NS
N	<i>Syntrichia papillosa</i>	a Moss			S1S2		2	92.5 ± 0.0	NS
N	<i>Pseudotaxiphyllum distichaceum</i>	a Moss			S1S2		3	75.0 ± 4.0	NS
N	<i>Hamatocaulis vernicosus</i>	a Moss			S1S2		3	95.8 ± 0.0	NS
N	<i>Haplocladium microphyllum</i>	Tiny-leaved Haplocladium Moss			S1S2		1	98.0 ± 3.0	NS
N	<i>Rhynchostegium serrulatum</i>	Dark Beaked Moss			S1S2		1	74.7 ± 2.0	NS
N	<i>Sclerophora amabilis</i>	Collared Glass-whiskers Lichen			S1S2		3	79.5 ± 0.0	NS
N	<i>Peltigera ponojensis</i>	Pale-bellied Pelt Lichen			S1S2		3	12.3 ± 0.0	NS
N	<i>Pilophorus cereolus</i>	Powdered Matchstick Lichen			S1S2		1	88.9 ± 3.0	NS
N	<i>Rhizoplaca subdiscrepans</i>	Scattered Rock-posy Lichen			S1S2		2	49.0 ± 0.0	NS
N	<i>Parmotrema reticulatum</i>	Netted Ruffle Lichen			S1S2		4	32.2 ± 0.0	NS
N	<i>Cladonia subtenuis</i>	Dixie Reindeer Lichen			S1S2		1	82.0 ± 0.0	NS
N	<i>Parmeliella parvula</i>	Poor-man's Shingles Lichen			S1S2		40	32.5 ± 6.0	NS
N	<i>Chaenotheca hygrophila</i>	a lichen			S1S3		9	12.3 ± 0.0	NS
N	<i>Umbilicaria polyrhiza</i>	Ballpoint Rocktripe Lichen			S1S3		2	25.0 ± 0.0	NS
N	<i>Lecanora polytropia</i>	a lichen			S1S3		2	44.3 ± 1.0	NS

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N	<i>Heterodermia galactophylla</i>	Branching Fringe Lichen				S1S3	1	63.6 ± 0.0	NS
N	<i>Peltigera neckeri</i>	Black-saddle Pelt Lichen				S1S3	1	12.2 ± 0.0	NS
N	<i>Usnea fragilesceus</i>	Inflationary Beard Lichen				S1S3	4	30.0 ± 2.0	NS
N	<i>Usnea chaetophora</i>	Articulated Beard Lichen				S1S3	1	12.3 ± 0.0	NS
N	<i>Stereocaulon grande</i>	Grand Foam Lichen				S1S3	1	82.8 ± 0.0	NS
N	<i>Stereocaulon intermedium</i>	Pacific Brain Foam Lichen				S1S3	5	21.1 ± 0.0	NS
N	<i>Anacamptodon splachnoides</i>	a Moss				S2	2	49.6 ± 0.0	NS
N	<i>Sphagnum platyphyllum</i>	Flat-leaved Peat Moss				S2	4	61.5 ± 0.0	NS
N	<i>Sphagnum subnitens</i>	Lustrous Peat Moss				S2	4	46.6 ± 0.0	NS
N	<i>Usnea flavocardia</i>	Blood-splattered Beard Lichen				S2	2	38.9 ± 1.0	NS
N	<i>Cystocoleus ebeneus</i>	Rockgossamer Lichen				S2	6	26.4 ± 0.0	NS
N	<i>Hypotrachyna catawbiensis</i>	Powder-tipped Antler Lichen				S2	3	13.1 ± 0.0	NS
N	<i>Scytinium imbricatum</i>	Scaly Jellyskin Lichen				S2	1	35.2 ± 0.0	NS
N	<i>Nephroma resupinatum</i>	a lichen				S2	13	21.2 ± 0.0	NS
N	<i>Placynthium flabellum</i>	Scaly Ink Lichen				S2	1	84.3 ± 0.0	NS
N	<i>Cololejeunea biddlecomiae</i>	Biddlecome's Pouncewort				S2?	1	87.0 ± 0.0	NS
N	<i>Riccardia multifida</i>	Delicate Germanderwort				S2?	2	86.9 ± 0.0	NS
N	<i>Atrichum angustatum</i>	Lesser Smoothcap Moss				S2?	8	46.7 ± 0.0	NS
N	<i>Ptychostomum pendulum</i>	Drooping Bryum				S2?	1	74.1 ± 1.0	NS
N	<i>Drepanocladus polygamus</i>	Polygamous Hook Moss				S2?	6	48.8 ± 0.0	NS
N	<i>Pseudocampyllum radicale</i>	Long-stalked Fine Wet Moss				S2?	2	47.0 ± 0.0	NS
N	<i>Climacium americanum</i>	American Tree Moss				S2?	10	28.6 ± 0.0	NS
N	<i>Dicranum condensatum</i>	Condensed Broom Moss				S2?	5	43.9 ± 0.0	NS
N	<i>Ditrichum rhynchostegium</i>	a Moss				S2?	6	47.6 ± 1.0	NS
N	<i>Fissidens bushii</i>	Bush's Pocket Moss				S2?	14	48.4 ± 0.0	NS
N	<i>Fontinalis hypnoides</i>	a moss				S2?	1	48.8 ± 0.0	NS
N	<i>Fontinalis sullivantii</i>	Sullivant's Water Moss				S2?	5	11.9 ± 0.0	NS
N	<i>Grimmia olneyi</i>	a Moss				S2?	10	46.8 ± 0.0	NS
N	<i>Grimmia anomala</i>	Mountain Forest Grimmia				S2?	1	53.2 ± 1.0	NS
N	<i>Orthotrichum anomalum</i>	Anomalous Bristle Moss				S2?	3	47.0 ± 0.0	NS
N	<i>Philonotis marchica</i>	a Moss				S2?	1	51.3 ± 0.0	NS
N	<i>Rauvolfia scita</i>	Smaller Fern Moss				S2?	16	46.7 ± 0.0	NS
N	<i>Platylomella lescurii</i>	a Moss				S2?	11	44.3 ± 1.0	NS
N	<i>Phyllicium demangeonii</i>	Black Rock-wafer Lichen				S2?	6	28.5 ± 0.0	NS
N	<i>Oxyrrhynchium hians</i>	Light Beaked Moss				S2S3	3	49.7 ± 5.0	NS
N	<i>Platydictya subtilis</i>	Bark Willow Moss				S2S3	4	51.3 ± 0.0	NS
N	<i>Plagiomnium rostratum</i>	Long-beaked Leafy Moss				S2S3	4	47.4 ± 0.0	NS
N	<i>Scorpidium revolvens</i>	Limprichtia Moss				S2S3	1	73.1 ± 2.0	NS
N	<i>Moelleropsis nebulosa</i>	Blue-gray Moss Shingle Lichen				S2S3	177	19.0 ± 0.0	NS
N	<i>Moelleropsis nebulosa ssp. frullaniae</i>	Blue-gray Moss Shingle Lichen				S2S3	11	14.9 ± 0.0	NS
N	<i>Ramalina thrausta</i>	Angelhair Ramalina Lichen				S2S3	1	93.5 ± 2.0	NS
N	<i>Collema leptaleum</i>	Crumpled Bat's Wing Lichen				S2S3	74	3.1 ± 0.0	NS
N	<i>Usnea ceratina</i>	Warty Beard Lichen				S2S3	4	13.8 ± 0.0	NS
N	<i>Usnea rubicunda</i>	Red Beard Lichen				S2S3	8	18.7 ± 0.0	NS
N	<i>Ahtiana aurescens</i>	Eastern Candlewax Lichen				S2S3	41	8.8 ± 0.0	NS
N	<i>Usnocetraria oakesiana</i>	Yellow Band Lichen				S2S3	11	49.3 ± 0.0	NS
N	<i>Catinaria atropurpurea</i>	a lichen				S2S3	1	42.7 ± 0.0	NS
N	<i>Cladonia incrassata</i>	Powder-foot British Soldiers Lichen				S2S3	4	32.2 ± 3.0	NS
N	<i>Cladonia mateocyatha</i>	Mixed-up Pixie-cup				S2S3	6	43.7 ± 0.0	NS
N	<i>Cladonia parasitica</i>	Fence-rail Lichen				S2S3	2	38.3 ± 1.0	NS
N	<i>Scytinium tenuissimum</i>	Birdnest Jellyskin Lichen				S2S3	5	36.8 ± 6.0	NS
N	<i>Parmelia fertilis</i>	Fertile Shield Lichen				S2S3	4	54.0 ± 0.0	NS
N	<i>Hypotrachyna minarum</i>	Hairless-spined Shield Lichen				S2S3	5	31.9 ± 0.0	NS

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N	<i>Racodium rupestre</i>	Rockhair Lichen				S2S3	3	30.4 ± 0.0	NS
N	<i>Umbilicaria polyphylla</i>	Petalled Rocktripe Lichen				S2S3	1	86.5 ± 0.0	NS
N	<i>Usnea cavernosa</i>	Pitted Beard Lichen				S2S3	1	37.9 ± 0.0	NS
N	<i>Usnea mutabilis</i>	Bloody Beard Lichen				S2S3	3	44.1 ± 0.0	NS
N	<i>Fuscopannaria soredata</i>	a Lichen				S2S3	25	13.9 ± 0.0	NS
N	<i>Stereocaulon condensatum</i>	Granular Soil Foam Lichen				S2S3	3	95.2 ± 0.0	NS
N	<i>Physcia subtilis</i>	Slender Rosette Lichen				S2S3	1	86.6 ± 0.0	NS
N	<i>Dimelaena oreina</i>	Golden Moonglow Lichen				S2S3	3	69.8 ± 0.0	NS
N	<i>Cetraria arenaria</i>	Sand-loving Icelandmoss Lichen				S2S3	34	42.5 ± 0.0	NS
N	<i>Cladonia coccifera</i>	Eastern Boreal Pixie-cup Lichen				S2S3	1	82.8 ± 0.0	NS
N	<i>Cladonia deformis</i>	Lesser Sulphur-cup Lichen				S2S3	1	81.5 ± 4.0	NS
N	<i>Usnea flammea</i>	Coastal Bushy Beard Lichen				S2S3	2	39.6 ± 0.0	NS
N	<i>Ephemerum serratum</i>	a Moss				S3	1	93.1 ± 0.0	NS
N	<i>Fissidens taxifolius</i>	Yew-leaved Pocket Moss				S3	4	94.0 ± 0.0	NS
N	<i>Anomodon tristis</i>	a Moss				S3	6	48.7 ± 0.0	NS
N	<i>Sphagnum contortum</i>	Twisted Peat Moss				S3	3	87.1 ± 0.0	NS
N	<i>Tetraplodon angustatus</i>	Toothed-leaved Nitrogen Moss				S3	3	31.6 ± 0.0	NS
N	<i>Rostania occultata</i>	Crusted Tarpaper Lichen				S3	5	51.0 ± 2.0	NS
N	<i>Collema nigrescens</i>	Blistered Tarpaper Lichen				S3	116	6.5 ± 0.0	NS
N	<i>Fuscopannaria ahlneri</i>	Corrugated Shingles Lichen				S3	116	4.5 ± 0.0	NS
N	<i>Scytinium lichenoides</i>	Tattered Jellyskin Lichen				S3	9	22.1 ± 0.0	NS
N	<i>Leptogium milligranum</i>	Stretched Jellyskin Lichen				S3	58	10.6 ± 0.0	NS
N	<i>Nephroma bellum</i>	Naked Kidney Lichen				S3	12	19.6 ± 0.0	NS
N	<i>Placynthium nigrum</i>	Common Ink Lichen				S3	1	13.7 ± 3.0	NS
N	<i>Punctelia appalachensis</i>	Appalachian Speckleback Lichen				S3	14	66.9 ± 0.0	NS
N	<i>Viridothelium virens</i>	a lichen				S3	11	57.0 ± 0.0	NS
N	<i>Ephebe lanata</i>	Waterside Rockshag Lichen				S3	5	54.7 ± 0.0	NS
N	<i>Phaeophyscia adiastrata</i>	Powder-tipped Shadow Lichen				S3	3	92.6 ± 0.0	NS
N	<i>Phaeophyscia pusilloides</i>	Pompom-tipped Shadow Lichen				S3	4	36.7 ± 0.0	NS
N	<i>Peltigera collina</i>	Tree Pelt Lichen				S3	10	34.8 ± 0.0	NS
N	<i>Metzgeria conjugata</i>	Rock Veilwort				S3?	3	87.3 ± 0.0	NS
N	<i>Calliergon giganteum</i>	Giant Spear Moss				S3?	1	97.5 ± 0.0	NS
N	<i>Drummondia prorepens</i>	a Moss				S3?	5	11.1 ± 5.0	NS
N	<i>Elodium blandowii</i>	Blandow's Bog Moss				S3?	1	93.1 ± 0.0	NS
N	<i>Sphagnum riparium</i>	Streamside Peat Moss				S3?	3	43.5 ± 0.0	NS
N	<i>Cladonia stygia</i>	Black-footed Reindeer Lichen				S3?	21	14.5 ± 0.0	NS
N	<i>Anomodon rugelii</i>	Rugel's Anomodon Moss				S3S4	10	48.7 ± 0.0	NS
N	<i>Dichelyma capillaceum</i>	Hairlike Dichelyma Moss				S3S4	8	46.3 ± 1.0	NS
N	<i>Dicranum leioneuron</i>	a Dicranum Moss				S3S4	3	38.1 ± 0.0	NS
N	<i>Encalypta procera</i>	Slender Extinguisher Moss				S3S4	1	87.6 ± 0.0	NS
N	<i>Myurella julacea</i>	Small Mouse-tail Moss				S3S4	1	92.8 ± 0.0	NS
N	<i>Splachnum ampullaceum</i>	Cruet Dung Moss				S3S4	1	69.3 ± 0.0	NS
N	<i>Thamnobryum alleghaniense</i>	a Moss				S3S4	9	40.2 ± 1.0	NS
N	<i>Tomentypnum nitens</i>	Golden Fuzzy Fen Moss				S3S4	1	95.9 ± 0.0	NS
N	<i>Schistidium agassizii</i>	Elf Bloom Moss				S3S4	3	44.3 ± 1.0	NS
N	<i>Hylocomiastrum pyrenaicum</i>	a Feather Moss				S3S4	4	49.6 ± 0.0	NS
N	<i>Bryoria pseudofuscescens</i>	Mountain Horsehair Lichen				S3S4	5	38.3 ± 1.0	NS
N	<i>Sticta fuliginosa</i>	Peppered Moon Lichen				S3S4	320	18.8 ± 0.0	NS
N	<i>Arctoparmelia incurva</i>	Finger Ring Lichen				S3S4	58	15.2 ± 0.0	NS
N	<i>Scytinium teretiusculum</i>	Curly Jellyskin Lichen				S3S4	22	35.0 ± 0.0	NS
N	<i>Leptogium acadense</i>	Acadian Jellyskin Lichen				S3S4	62	18.9 ± 0.0	NS

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N	<i>Scytinium subtile</i>	Appressed Jellyskin Lichen				S3S4	39	2.7 ± 0.0	NS
N	<i>Felipes leucopellaeus</i>	a lichen				S3S4	7	16.5 ± 0.0	NS
N	<i>Cladonia floerkeana</i>	Gritty British Soldiers Lichen				S3S4	3	43.7 ± 0.0	NS
N	<i>Vahlia leucophaea</i>	Shelter Shingle Lichen				S3S4	2	84.3 ± 0.0	NS
N	<i>Heterodermia speciosa</i>	Powdered Fringe Lichen				S3S4	87	14.0 ± 0.0	NS
N	<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3S4	533	2.6 ± 0.0	NS
N	<i>Melanohalea olivacea</i>	Spotted Camouflage Lichen				S3S4	3	30.6 ± 0.0	NS
N	<i>Parmotrema perlatum</i>	Powdered Ruffle Lichen				S3S4	65	3.0 ± 19.0	NS
N	<i>Sphaerophorus fragilis</i>	Fragile Coral Lichen				S3S4	8	60.4 ± 0.0	NS
N	<i>Sclerophora peronella</i>	Frosted Glass-whiskers Lichen				S3S4	25	15.0 ± 0.0	NS
N	<i>Coccocarpia palmicola</i>	Salted Shell Lichen				S3S4	1149	4.6 ± 0.0	NS
N	<i>Physcia caesia</i>	Blue-gray Rosette Lichen				S3S4	3	61.9 ± 20.0	NS
N	<i>Physcia tenella</i>	Fringed Rosette Lichen				S3S4	3	39.4 ± 1.0	NS
N	<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4	238	13.0 ± 0.0	NS
N	<i>Evermia prunastri</i>	Valley Oakmoss Lichen				S3S4	9	45.1 ± 1.0	NS
N	<i>Heterodermia neglecta</i>	Fringe Lichen				S3S4	358	11.2 ± 0.0	NS
P	<i>Rhynchospora macrostachya</i>	Tall Beakrush	Endangered	Endangered	Endangered	S1	57	24.8 ± 0.0	NS
P	<i>Lyonia ligustrina</i>	Maleberry	Endangered			S1	15	98.2 ± 0.0	NS
P	<i>Coreopsis rosea</i>	Pink Coreopsis	Endangered	Endangered	Endangered	S2	334	90.5 ± 0.0	NS
P	<i>Drosera filiformis</i>	Thread-leaved Sundew	Endangered	Endangered	Endangered	S2	940	81.8 ± 0.0	NS
P	<i>Clethra alnifolia</i>	Coast Pepper-Bush	Endangered	Threatened	Vulnerable	S2	279	21.4 ± 0.0	NS
P	<i>Sabatia kennedyana</i>	Plymouth Gentian	Endangered	Endangered	Endangered	S2S3	1247	87.2 ± 0.0	NS
P	<i>Juglans cinerea</i>	Butternut	Endangered	Endangered		SNA	21	30.5 ± 0.0	NS
P	<i>Fraxinus nigra</i>	Black Ash	Threatened		Threatened	S1S2	393	10.3 ± 0.0	NS
P	<i>Liatris spicata</i>	Dense Blazing Star	Threatened	Threatened		SNA	3	84.6 ± 0.0	NS
P	<i>Hydrocotyle umbellata</i>	Water Pennywort	Special Concern	Special Concern	Endangered	S2	229	45.1 ± 13.0	NS
P	<i>Eleocharis tuberculosa</i>	Tuberclad Spike-rush	Special Concern	Special Concern	Vulnerable	S2	556	12.0 ± 0.0	NS
P	<i>Lachnanthes caroliniana</i>	Redroot	Special Concern	Special Concern	Vulnerable	S2	1483	3.6 ± 0.0	NS
P	<i>Lophiola aurea</i>	Goldencrest	Special Concern	Special Concern	Vulnerable	S2	848	14.7 ± 0.0	NS
P	<i>Lilaeopsis chinensis</i>	Eastern Lilaeopsis	Special Concern	Special Concern	Vulnerable	S3	158	6.4 ± 0.0	NS
P	<i>Scirpus longii</i>	Long's Bulrush	Special Concern		Vulnerable	S3	878	3.3 ± 0.0	NS
P	<i>Isoetes prototypus</i>	Prototype Quillwort	Special Concern	Special Concern	Vulnerable	S3	7	93.7 ± 0.0	NS
P	<i>Toxicodendron vernix</i>	Poison Sumac				S1	42	30.9 ± 0.0	NS
P	<i>Turritis glabra</i>	Tower Mustard				S1	1	64.1 ± 0.0	NS
P	<i>Lobelia spicata</i>	Pale-Spiked Lobelia				S1	1	87.9 ± 50.0	NS
P	<i>Silene antirrhina</i>	Sleepy Catchfly				S1	5	93.3 ± 2.0	NS
P	<i>Stellaria crassifolia</i>	Fleshy Stitchwort				S1	1	14.3 ± 2.0	NS
P	<i>Callitriche hermaphroditica</i>	Northern Water-starwort				S1	1	99.0 ± 0.0	NS
P	<i>Trichostema dichotomum</i>	Forked Bluecurls				S1	9	30.4 ± 0.0	NS
P	<i>Fraxinus pennsylvanica</i>	Red Ash				S1	1	49.8 ± 0.0	NS
P	<i>Polygonum achoreum</i>	Leathery Knotweed				S1	1	88.7 ± 10.0	NS
P	<i>Podostemum ceratophyllum</i>	Horn-leaved Riverweed				S1	4	39.5 ± 0.0	NS
P	<i>Lysimachia minima</i>	Chaffweed				S1	1	49.8 ± 0.0	NS
P	<i>Lysimachia quadrifolia</i>	Whorled Yellow Loosestrife				S1	1	88.3 ± 0.0	NS
P	<i>Amelanchier nantucketensis</i>	Nantucket Serviceberry				S1	1	65.2 ± 0.0	NS
P	<i>Agalinis tenuifolia</i>	Slender Agalinis				S1	1	12.2 ± 0.0	NS
P	<i>Scrophularia lanceolata</i>	Lance-leaved Figwort				S1	2	89.6 ± 1.0	NS
P	<i>Carex digitalis</i>	Slender Wood Sedge				S1	5	28.8 ± 0.0	NS
P	<i>Carex laxiflora</i>	Loose-Flowered Sedge				S1	4	52.4 ± 2.0	NS
P	<i>Carex ormostachya</i>	Necklace Spike Sedge				S1	3	60.9 ± 0.0	NS
P	<i>Cyperus diandrus</i>	Low Flatsedge				S1	3	92.3 ± 0.0	NS
P	<i>Fimbristylis autumnalis</i>	Slender Fimbry				S1	3	42.6 ± 0.0	NS
P	<i>Scirpus atrovirens</i>	Dark-green Bulrush				S1	1	54.6 ± 0.0	NS
P	<i>Schoenoplectus torreyi</i>	Torrey's Bulrush				S1	8	17.2 ± 0.0	NS
P	<i>Iris prismatica</i>	Slender Blue Flag				S1	1	94.0 ± 100.0	NS
P	<i>Sisyrinchium fuscatum</i>	Coastal Plain Blue-eyed-				S1	6	16.8 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Juncus secundus</i>	grass Secund Rush				S1	2	25.2 ± 1.0	NS
P	<i>Spiranthes casei</i> var. <i>casei</i>	Case's Ladies'-Tresses				S1	3	6.1 ± 0.0	NS
P	<i>Dichanthelium xanthophyllum</i>	Slender Panic Grass				S1	10	29.6 ± 1.0	NS
P	<i>Torreyochloa pallida</i> var. <i>pallida</i>	Pale False Manna Grass				S1	2	77.5 ± 0.0	NS
P	<i>Adiantum pedatum</i>	Northern Maidenhair Fern				S1	3	89.0 ± 1.0	NS
P	<i>Dryopteris goldieana</i>	Goldie's Woodfern				S1	1	41.2 ± 1.0	NS
P	<i>Carex pensylvanica</i>	Pennsylvania Sedge				S1?	1	28.1 ± 10.0	NS
P	<i>Bolboschoenus robustus</i>	Sturdy Bulrush				S1?	1	90.7 ± 5.0	NS
P	<i>Juncus antheratus</i>	Greater Poverty Rush				S1?	1	84.1 ± 0.0	NS
P	<i>Allium schoenoprasum</i>	Wild Chives				S1?	1	98.2 ± 0.0	NS
P	<i>Panicum dichotomiflorum</i> ssp. <i>puritanorum</i>	Spreading Panicgrass				S1?	17	28.8 ± 0.0	NS
P	<i>Crocanthemum canadense</i>	Long-branched Frostweed			Endangered	S1S2	151	14.3 ± 0.0	NS
P	<i>Cornus suecica</i>	Swedish Bunchberry				S1S2	2	28.6 ± 0.0	NS
P	<i>Proserpinaca intermedia</i>	Intermediate Mermaidweed				S1S2	5	3.7 ± 5.0	NS
P	<i>Carex haydenii</i>	Hayden's Sedge				S1S2	2	33.0 ± 0.0	NS
P	<i>Euphrasia farlowii</i>	Farlow's Eyebright				S1S3	2	25.1 ± 0.0	NS
P	<i>Carex vacillans</i>	Estuarine Sedge				S1S3	1	35.8 ± 0.0	NS
P	<i>Antennaria parlinii</i> ssp. <i>fallax</i>	Parlin's Pussytoes				S2	25	24.7 ± 0.0	NS
P	<i>Rudbeckia laciniata</i>	Cut-Leaved Coneflower				S2	10	92.3 ± 5.0	NS
P	<i>Hudsonia ericoides</i>	Pinebarren Golden Heather				S2	188	10.7 ± 0.0	NS
P	<i>Desmodium canadense</i>	Canada Tick-trefoil				S2	8	47.7 ± 1.0	NS
P	<i>Hylodesmum glutinosum</i>	Large Tick-trefoil				S2	31	47.0 ± 0.0	NS
P	<i>Conopholis americana</i>	American Cancer-root				S2	97	25.5 ± 7.0	NS
P	<i>Anemonastrum canadense</i>	Canada Anemone				S2	7	3.5 ± 1.0	NS
P	<i>Hepatica americana</i>	Round-lobed Hepatica				S2	13	29.6 ± 1.0	NS
P	<i>Ranunculus sceleratus</i>	Cursed Buttercup				S2	3	13.5 ± 0.0	NS
P	<i>Galium boreale</i>	Northern Bedstraw				S2	3	73.6 ± 0.0	NS
P	<i>Agalinis maritima</i>	Saltmarsh Agalinis				S2	1	100.0 ± 0.0	NS
P	<i>Juncus greenei</i>	Greene's Rush				S2	8	79.2 ± 0.0	NS
P	<i>Allium tricoccum</i>	Wild Leek				S2	35	88.2 ± 8.0	NS
P	<i>Lilium canadense</i>	Canada Lily				S2	1	98.5 ± 7.0	NS
P	<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	Yellow Lady's-slipper				S2	1	96.3 ± 1.0	NS
P	<i>Cypripedium parviflorum</i> var. <i>makasin</i>	Small Yellow Lady's-Slipper				S2	1	94.4 ± 0.0	NS
P	<i>Platanthera flava</i> var. <i>flava</i>	Southern Rein Orchid				S2	387	6.6 ± 0.0	NS
P	<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchid				S2	27	3.9 ± 0.0	NS
P	<i>Platanthera macrophylla</i>	Large Round-Leaved Orchid				S2	3	64.7 ± 0.0	NS
P	<i>Cinna arundinacea</i>	Sweet Wood Reed Grass				S2	40	29.4 ± 0.0	NS
P	<i>Piptatheropsis pungens</i>	Slender Ricegrass				S2	13	17.4 ± 1.0	NS
P	<i>Cuscuta cephalanthi</i>	Buttonbush Dodder				S2?	7	21.2 ± 0.0	NS
P	<i>Rumex persicarioides</i>	Peach-leaved Dock				S2?	5	24.9 ± 5.0	NS
P	<i>Crataegus submollis</i>	Quebec Hawthorn				S2?	1	67.6 ± 7.0	NS
P	<i>Thuja occidentalis</i>	Eastern White Cedar			Vulnerable	S2S3	349	49.6 ± 0.0	NS
P	<i>Osmorhiza longistylis</i>	Smooth Sweet Cicely				S2S3	1	95.0 ± 0.0	NS
P	<i>Eutrochium dubium</i>	Coastal Plain Joe Pye Weed				S2S3	148	19.7 ± 0.0	NS
P	<i>Lactuca hirsuta</i>	Hairy Lettuce				S2S3	4	16.2 ± 5.0	NS
P	<i>Caulophyllum thalictroides</i>	Blue Cohosh				S2S3	16	88.2 ± 8.0	NS
P	<i>Oxybasis rubra</i>	Red Goosefoot				S2S3	3	37.0 ± 0.0	NS
P	<i>Hypericum majus</i>	Large St John's-wort				S2S3	3	24.4 ± 0.0	NS
P	<i>Hypericum x dissimulatum</i>	Disguised St. John's-wort				S2S3	9	20.6 ± 0.0	NS
P	<i>Empetrum atropurpureum</i>	Purple Crowberry				S2S3	2	75.7 ± 7.0	NS
P	<i>Euphorbia polygonifolia</i>	Seaside Spurge				S2S3	17	22.6 ± 1.0	NS

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P	<i>Myriophyllum farwellii</i>	Farwell's Water Milfoil				S2S3	8	15.2 ± 0.0	NS
P	<i>Hedeoma pulegioides</i>	American False Pennyroyal				S2S3	6	20.6 ± 1.0	NS
P	<i>Oenothera fruticosa</i> ssp. <i>tetragona</i>	Narrow-leaved Evening Primrose				S2S3	7	27.3 ± 7.0	NS
P	<i>Polygala polygama</i>	Racemed Milkwort				S2S3	36	47.0 ± 0.0	NS
P	<i>Polygonum aviculare</i> ssp. <i>buxiforme</i>	Box Knotweed				S2S3	3	24.8 ± 0.0	NS
P	<i>Polygonum oxyspermum</i> ssp. <i>rail</i>	Ray's Knotweed				S2S3	10	13.4 ± 2.0	NS
P	<i>Rumex triangulivalvis</i>	Triangular-valve Dock				S2S3	2	28.5 ± 1.0	NS
P	<i>Anemone quinquefolia</i>	Wood Anemone				S2S3	26	81.6 ± 0.0	NS
P	<i>Caltha palustris</i>	Yellow Marsh Marigold				S2S3	7	40.9 ± 0.0	NS
P	<i>Amelanchier fernaldii</i>	Fernald's Serviceberry				S2S3	2	35.9 ± 7.0	NS
P	<i>Potentilla canadensis</i>	Canada Cinquefoil				S2S3	22	4.6 ± 5.0	NS
P	<i>Galium obtusum</i>	Blunt-leaved Bedstraw				S2S3	18	32.3 ± 0.0	NS
P	<i>Boehmeria cylindrica</i>	Small-spike False-nettle				S2S3	57	29.3 ± 0.0	NS
P	<i>Carex adusta</i>	Lesser Brown Sedge				S2S3	4	50.8 ± 7.0	NS
P	<i>Carex comosa</i>	Bearded Sedge				S2S3	9	95.7 ± 0.0	NS
P	<i>Carex houghtoniana</i>	Houghton's Sedge				S2S3	7	24.2 ± 0.0	NS
P	<i>Carex hystericina</i>	Porcupine Sedge				S2S3	1	90.0 ± 1.0	NS
P	<i>Carex longii</i>	Long's Sedge				S2S3	14	32.5 ± 10.0	NS
P	<i>Eleocharis ovata</i>	Ovate Spikerush				S2S3	5	44.6 ± 0.0	NS
P	<i>Vallisneria americana</i>	Wild Celery				S2S3	12	32.8 ± 0.0	NS
P	<i>Najas gracillima</i>	Thread-Like Naiad				S2S3	20	10.5 ± 7.0	NS
P	<i>Goodyera pubescens</i>	Downy Rattlesnake-Plantain				S2S3	92	23.6 ± 0.0	NS
P	<i>Spiranthes casei</i>	Case's Ladies'-Tresses				S2S3	4	24.4 ± 0.0	NS
P	<i>Spiranthes casei</i> var. <i>novaescotiae</i>	Case's Ladies'-Tresses				S2S3	23	16.4 ± 0.0	NS
P	<i>Spiranthes lucida</i>	Shining Ladies'-Tresses				S2S3	4	88.4 ± 1.0	NS
P	<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>	Narrow Triangle Moonwort				S2S3	3	96.0 ± 1.0	NS
P	<i>Botrychium simplex</i>	Least Moonwort				S2S3	3	13.5 ± 1.0	NS
P	<i>Ophioglossum pusillum</i>	Northern Adder's-tongue				S2S3	5	29.5 ± 0.0	NS
P	<i>Potamogeton pulcher</i>	Spotted Pondweed			Vulnerable	S3	44	3.2 ± 0.0	NS
P	<i>Conioselinum chinense</i>	Chinese Hemlock-parsley				S3	2	24.9 ± 0.0	NS
P	<i>Senecio pseudoarnica</i>	Seabeach Ragwort				S3	4	77.6 ± 0.0	NS
P	<i>Symphotrichum boreale</i>	Boreal Aster				S3	8	21.7 ± 5.0	NS
P	<i>Symphotrichum undulatum</i>	Wavy-leaved Aster				S3	153	3.6 ± 1.0	NS
P	<i>Alnus serrulata</i>	Smooth Alder				S3	811	2.2 ± 0.0	NS
P	<i>Betula michauxii</i>	Michaux's Dwarf Birch				S3	56	16.7 ± 0.0	NS
P	<i>Cardamine parviflora</i>	Small-flowered Bittercress				S3	6	29.3 ± 0.0	NS
P	<i>Palustricodon aparinoides</i>	Marsh Bellflower				S3	1	97.5 ± 1.0	NS
P	<i>Mononeuria groenlandica</i>	Greenland Stitchwort				S3	201	29.8 ± 0.0	NS
P	<i>Sagina nodosa</i>	Knotted Pearlwort				S3	72	9.7 ± 5.0	NS
P	<i>Sagina nodosa</i> ssp. <i>borealis</i>	Knotted Pearlwort				S3	5	27.2 ± 1.0	NS
P	<i>Stellaria longifolia</i>	Long-leaved Starwort				S3	1	66.0 ± 5.0	NS
P	<i>Ceratophyllum echinatum</i>	Prickly Hornwort				S3	6	15.2 ± 0.0	NS
P	<i>Crassula aquatica</i>	Water Pygmyweed				S3	2	65.0 ± 0.0	NS
P	<i>Empetrum eamesii</i>	Pink Crowberry				S3	82	72.8 ± 1.0	NS
P	<i>Vaccinium uliginosum</i>	Alpine Bilberry				S3	1	98.0 ± 0.0	NS
P	<i>Halenia deflexa</i>	Spurred Gentian				S3	3	79.4 ± 0.0	NS
P	<i>Geranium bicknellii</i>	Bicknell's Crane's-bill				S3	21	29.0 ± 5.0	NS
P	<i>Utricularia resupinata</i>	Inverted Bladderwort				S3	38	17.3 ± 0.0	NS
P	<i>Epilobium strictum</i>	Downy Willowherb				S3	2	11.6 ± 0.0	NS
P	<i>Polygala sanguinea</i>	Blood Milkwort				S3	25	29.5 ± 0.0	NS
P	<i>Persicaria arifolia</i>	Halberd-leaved Tearthumb				S3	10	25.1 ± 0.0	NS
P	<i>Plantago rugelii</i>	Rugel's Plantain				S3	2	55.9 ± 0.0	NS
P	<i>Primula laurentiana</i>	Laurentian Primrose				S3	1	99.5 ± 0.0	NS

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P	<i>Samolus parviflorus</i>	Seaside Brookweed				S3	66	6.4 ± 0.0	NS
P	<i>Pyrola minor</i>	Lesser Pyrola				S3	1	93.3 ± 0.0	NS
P	<i>Anemone virginiana</i>	Virginia Anemone				S3	1	29.6 ± 0.0	NS
P	<i>Cephalanthus occidentalis</i>	Common Buttonbush				S3	1978	3.4 ± 0.0	NS
P	<i>Salix pedicellaris</i>	Bog Willow				S3	93	3.9 ± 0.0	NS
P	<i>Salix sericea</i>	Silky Willow				S3	173	4.5 ± 1.0	NS
P	<i>Lindernia dubia</i>	Yellow-seeded False Pimperel				S3	15	19.1 ± 0.0	NS
P	<i>Laportea canadensis</i>	Canada Wood Nettle				S3	4	93.2 ± 0.0	NS
P	<i>Pilea pumila</i>	Dwarf Clearweed				S3	2	91.9 ± 0.0	NS
P	<i>Viola nephrophylla</i>	Northern Bog Violet				S3	1	61.7 ± 1.0	NS
P	<i>Carex cryptolepis</i>	Hidden-scaled Sedge				S3	5	23.9 ± 0.0	NS
P	<i>Carex eburnea</i>	Bristle-leaved Sedge				S3	1	32.5 ± 0.0	NS
P	<i>Carex lupulina</i>	Hop Sedge				S3	43	3.4 ± 1.0	NS
P	<i>Carex rosea</i>	Rosy Sedge				S3	4	92.8 ± 0.0	NS
P	<i>Carex swanii</i>	Swan's Sedge				S3	33	14.6 ± 0.0	NS
P	<i>Carex tenera</i>	Tender Sedge				S3	4	29.7 ± 0.0	NS
P	<i>Carex tribuloides</i>	Blunt Broom Sedge				S3	3	45.6 ± 0.0	NS
P	<i>Eleocharis nitida</i>	Quill Spikerush				S3	8	75.2 ± 1.0	NS
P	<i>Eleocharis flavescens</i> var. <i>olivacea</i>	Bright-green Spikerush				S3	20	16.9 ± 5.0	NS
P	<i>Eleocharis rostellata</i>	Beaked Spikerush				S3	18	86.1 ± 0.0	NS
P	<i>Eriophorum gracile</i>	Slender Cottongrass				S3	7	88.8 ± 1.0	NS
P	<i>Schoenoplectus americanus</i>	Olney's Bulrush				S3	6	99.1 ± 0.0	NS
P	<i>Coeloglossum viride</i>	Long-bracted Frog Orchid				S3	2	96.1 ± 1.0	NS
P	<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper				S3	1	94.7 ± 0.0	NS
P	<i>Neottia bifolia</i>	Southern Twayblade				S3	153	7.6 ± 0.0	NS
P	<i>Platanthera flava</i>	Southern Rein-Orchid				S3	58	4.1 ± 1.0	NS
P	<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid				S3	6	55.6 ± 0.0	NS
P	<i>Platanthera hookeri</i>	Hooker's Orchid				S3	20	21.4 ± 100.0	NS
P	<i>Dichanthelium linearifolium</i>	Narrow-leaved Panic Grass				S3	13	34.1 ± 0.0	NS
P	<i>Piptatheropsis canadensis</i>	Canada Ricegrass				S3	25	27.3 ± 0.0	NS
P	<i>Stuckenia filiformis</i>	Thread-leaved Pondweed				S3	1	79.9 ± 7.0	NS
P	<i>Sceptridium dissectum</i>	Dissected Moonwort				S3	4	38.2 ± 0.0	NS
P	<i>Polypodium appalachianum</i>	Appalachian Polypody				S3	13	11.1 ± 0.0	NS
P	<i>Persicaria amphibia</i> var. <i>emersa</i>	Long-root Smartweed				S3?	29	3.3 ± 0.0	NS
P	<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses				S3?	60	5.3 ± 25.0	NS
P	<i>Diphasiastrum x sabinifolium</i>	Savin-leaved Ground-cedar				S3?	3	48.9 ± 0.0	NS
P	<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane				S3S4	1	98.5 ± 7.0	NS
P	<i>Hieracium paniculatum</i>	Paniced Hawkweed				S3S4	41	15.7 ± 0.0	NS
P	<i>Bidens beckii</i>	Water Beggarticks				S3S4	24	32.9 ± 0.0	NS
P	<i>Vaccinium boreale</i>	Northern Blueberry				S3S4	1	38.5 ± 0.0	NS
P	<i>Vaccinium cespitosum</i>	Dwarf Bilberry				S3S4	39	36.6 ± 0.0	NS
P	<i>Vaccinium corymbosum</i>	Highbush Blueberry				S3S4	557	11.5 ± 0.0	NS
P	<i>Fagus grandifolia</i>	American Beech				S3S4	567	3.6 ± 1.0	NS
P	<i>Bartonia virginica</i>	Yellow Bartonia				S3S4	157	7.4 ± 0.0	NS
P	<i>Proserpinaca pectinata</i>	Comb-leaved Mermaidweed				S3S4	115	4.1 ± 5.0	NS
P	<i>Decodon verticillatus</i>	Swamp Loosestrife				S3S4	331	6.8 ± 0.0	NS
P	<i>Nuphar microphylla</i>	Small Yellow Pond-lily				S3S4	8	26.5 ± 2.0	NS
P	<i>Persicaria pensylvanica</i>	Pennsylvania Smartweed				S3S4	10	43.8 ± 5.0	NS
P	<i>Fallopia scandens</i>	Climbing False Buckwheat				S3S4	11	30.2 ± 0.0	NS
P	<i>Pyrola asarifolia</i>	Pink Pyrola				S3S4	1	90.3 ± 7.0	NS
P	<i>Amelanchier spicata</i>	Running Serviceberry				S3S4	56	18.3 ± 5.0	NS
P	<i>Fragaria vesca</i>	Woodland Strawberry				S3S4	4	86.9 ± 0.0	NS
P	<i>Galium aparine</i>	Common Bedstraw				S3S4	19	24.7 ± 0.0	NS
P	<i>Geocaulon lividum</i>	Northern Comandra				S3S4	1	95.9 ± 1.0	NS
P	<i>Limosella australis</i>	Southern Mudwort				S3S4	11	7.1 ± 0.0	NS

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P	<i>Ulmus americana</i>	White Elm				S3S4	31	11.6 ± 0.0	NS
P	<i>Verbena hastata</i>	Blue Vervain				S3S4	67	3.5 ± 1.0	NS
P	<i>Viola sagittata var. ovata</i>	Arrow-Leaved Violet				S3S4	67	28.7 ± 0.0	NS
P	<i>Symplocarpus foetidus</i>	Eastern Skunk Cabbage				S3S4	301	45.6 ± 0.0	NS
P	<i>Carex argyrantha</i>	Silvery-flowered Sedge				S3S4	23	20.0 ± 4.0	NS
P	<i>Sisyrinchium atlanticum</i>	Eastern Blue-Eyed-Grass				S3S4	425	3.6 ± 1.0	NS
P	<i>Triglochin gaspensis</i>	Gasp Arrowgrass				S3S4	15	25.0 ± 0.0	NS
P	<i>Juncus acuminatus</i>	Sharp-Fruit Rush				S3S4	12	6.0 ± 5.0	NS
P	<i>Juncus subcaudatus</i>	Woods-Rush				S3S4	23	4.6 ± 5.0	NS
P	<i>Goodyera repens</i>	Lesser Rattlesnake-plantain				S3S4	17	29.6 ± 0.0	NS
P	<i>Liparis loeselii</i>	Loesel's Twayblade				S3S4	9	13.5 ± 1.0	NS
P	<i>Platanthera obtusata</i>	Blunt-leaved Orchid				S3S4	6	32.3 ± 2.0	NS
P	<i>Platanthera orbiculata</i>	Small Round-leaved Orchid				S3S4	46	12.7 ± 7.0	NS
P	<i>Alopecurus aequalis</i>	Short-awned Foxtail				S3S4	2	93.4 ± 0.0	NS
P	<i>Dichanthelium clandestinum</i>	Deer-tongue Panic Grass				S3S4	265	27.3 ± 10.0	NS
P	<i>Coleataenia longifolia</i>	Long-leaved Panicgrass				S3S4	2347	4.1 ± 0.0	NS
P	<i>Panicum philadelphicum</i>	Philadelphia Panicgrass				S3S4	34	21.0 ± 0.0	NS
P	<i>Asplenium trichomanes</i>	Maidenhair Spleenwort				S3S4	5	86.2 ± 1.0	NS
P	<i>Lorinseria areolata</i>	Netted Chain Fern				S3S4	378	26.2 ± 0.0	NS
P	<i>Equisetum pratense</i>	Meadow Horsetail				S3S4	2	89.4 ± 0.0	NS
P	<i>Diphasiastrum complanatum</i>	Northern Ground-cedar				S3S4	9	69.1 ± 1.0	NS
P	<i>Sceptridium multifidum</i>	Leathery Moonwort				S3S4	11	40.5 ± 10.0	NS
P	<i>Botrychium matricariifolium</i>	Daisy-leaved Moonwort				S3S4	3	40.5 ± 10.0	NS
P	<i>Bidens discoidea</i>	Swamp Beggarticks				SH	1	61.6 ± 0.0	NS
P	<i>Dichanthelium meridionale</i>	Matting Witchgrass				SH	1	95.6 ± 10.0	NS

5.1 SOURCE BIBLIOGRAPHY (100 km)

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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18	Cameron, R.P. 2017. 2017 rare species field data. Nova Scotia Environment, 64 recs.
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1	Anderson, Frances. 2022. <i>Heterodermia squamulosa</i> record near Lunenburg, NS. pers. comm.
1	Arsenault, R. 2009. <i>Goodyera pubescens</i> record in Kejimikujik National Park. Pers. comm. to C.S. Blaney, 1 rec.
1	Basquill, S.P. 2018. Various specimens, NS DNR field work. NS Department of Natural Resources, 10.
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	Bayne, D.M. 2014. 2014 insect field observations.
1	Bayne, D.Z. 2014. 2014 rare species observations from southwest Nova Scotia. Nova Scotia Department of Natural Resources, 46 recs.
1	Belliveau, A. & Toms, B. 2012. Email regarding <i>Lophiola aurea</i> (Goldencrest) location on Molega Lake, NS. Mersey Tobeatic Research Institute, 3 records.
1	Benedict, B. Connell Herbarium Specimens, Digital photos. University New Brunswick, Fredericton. 2005.
1	Berg, L. 2020. Canada Warbler observations, Birch Lake, NS. pers. comm. to J. Churchill.
1	Bernard, Laurel. 2013. Email to Sean Blaney regarding <i>Listera australis</i> at Lake Rossignol. Nature Conservancy of Canada, 1.
1	Breen, A. 2017. 2017 Atlantic Whitefish observation. Coastal Action.
1	Brooks, Fiona. <i>Erioderma mollissimum</i> records in Lunenburg County, NS. Pers. comm., 2 records.
1	Brunton, Dan. 2022. Record of <i>Isoetes prototypus</i> near Sand Lake, NS. pers. comm.
1	Butt, Brad. 2020. Email from Brad Butt to Sean Blaney regarding a Blue Felt Lichen (<i>Pectenia plumbea</i>) from near Deception Lake, Shelburne Co., NS. pers. comm., 1 record.
1	Cameron, R.P. 2008. <i>Erioderma pedicellatum</i> N of Jones Harbour. Nova Scotia Environment & Labour. Pers. comm. to D.M. Mazerolle, 1 rec.
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1	Cook, K. 2016. Wood Turtle record. Pers comm. to Nova Scotia Department of Lands and Forestry.
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	Crowell, M.J. 2009. <i>Lilaeopsis chinensis</i> on Roseway River. Jacques Whitford Limited. Pers. comm. to D.M. Mazerolle, 1 rec.
1	Crowell, M.J. Plant specimens from Nictaux, NS sent to Sean Blaney for identification. Jacques Whitford Limited. 2005.
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1	Hill, N.; Manning, I. 2020. Wild Leek observation, Cornwallis River, NS, floodplain. pers. comm. to J. Churchill.
1	Hill, N.M. 2016. Email communications to Sean Blaney and Alain Belliveau regarding the discovery of <i>Fimbristylis autumnalis</i> on the shores of Loon Lake, Kejimikujik National Park. Pers. comm., 1 rec.
1	Hope, P. 2007. Water-pennywort (<i>Hydrocotyle umbellata</i>) on Ell Island. Parks Canada, Kejimikujik NP, 1 record.
1	Horace Moulard. 2022. Monarch observation in Wilmot, Nova Scotia. Personal communication, 1 record.
1	Hughes, Cory. 2020. Atlantic Forestry Centre <i>Coccinella transversoguttata</i> collections. Canadian Forest Service, Atlantic Forestry Centre.
1	Johnstone, D.; Churchill J. 2014. 2014 Chimney Swift observation, Kejimikujik NP, NS. Atlantic Canada Conservation Data Centre.
1	Jotcham, J. 2013. email to Sean Blaney regarding the discovery of a <i>Listera australis</i> population at Port Mouton. , 1.
1	Kennedy, B. 2019. observations of <i>Crocianthemum canadense</i> at Bangs Falls, Nova Scotia. iNaturalist.ca.
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1	Klymko, J.J.D.; Robinson, S.L. 2012. 2012 field data. Atlantic Canada Conservation Data Centre, 447 recs.
1	MacKinnon, D.S. 2002. Fieldwork 2002. Dept of Environment & Labour, Protected Areas Branch, 1 rec.
1	MacKinnon, D.S. 2012. <i>Goodyera pubescens</i> observation, photo. Pers. comm. to S. Blaney, Sep 18, 1 rec.
1	McAlpine, D.F. 1998. NBM Science Collections databases to 1998. New Brunswick Museum, Saint John NB, 241 recs.
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1	Powell, B.C. 1967. Female sexual cycles of <i>Chrysemy spicta</i> & <i>Clemmys insculpta</i> in Nova Scotia. <i>Can. Field-Nat.</i> , 81:134-139. 26 recs.
1	Proulx, Lisa. 2022. Email to Sean Blaney regarding <i>Sclerophora peronella</i> (Frosted Glass Whiskers, a lichen) occurrence at Goldsmith Lake, Annapolis Co., NS. pers. comm., 1 record.
1	Riley, Jonathan. 2019. <i>Fraxinus nigra</i> observation near Kejimikujik National Park. iNaturalist.
1	Robicheau, C. 2019. Atlantic Canada Conservation Data Centre Fieldwork 2019. Atlantic Canada Conservation Data Centre.
1	Sabine, D.L. <i>Bombus terricola</i> specimens in Dwayne Sabine's personal collection. pers. comm. 2022.
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.
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