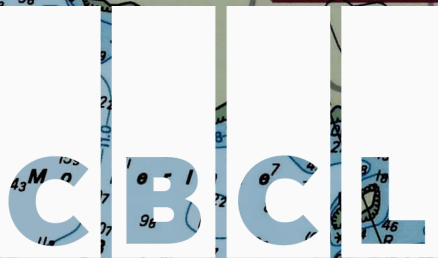
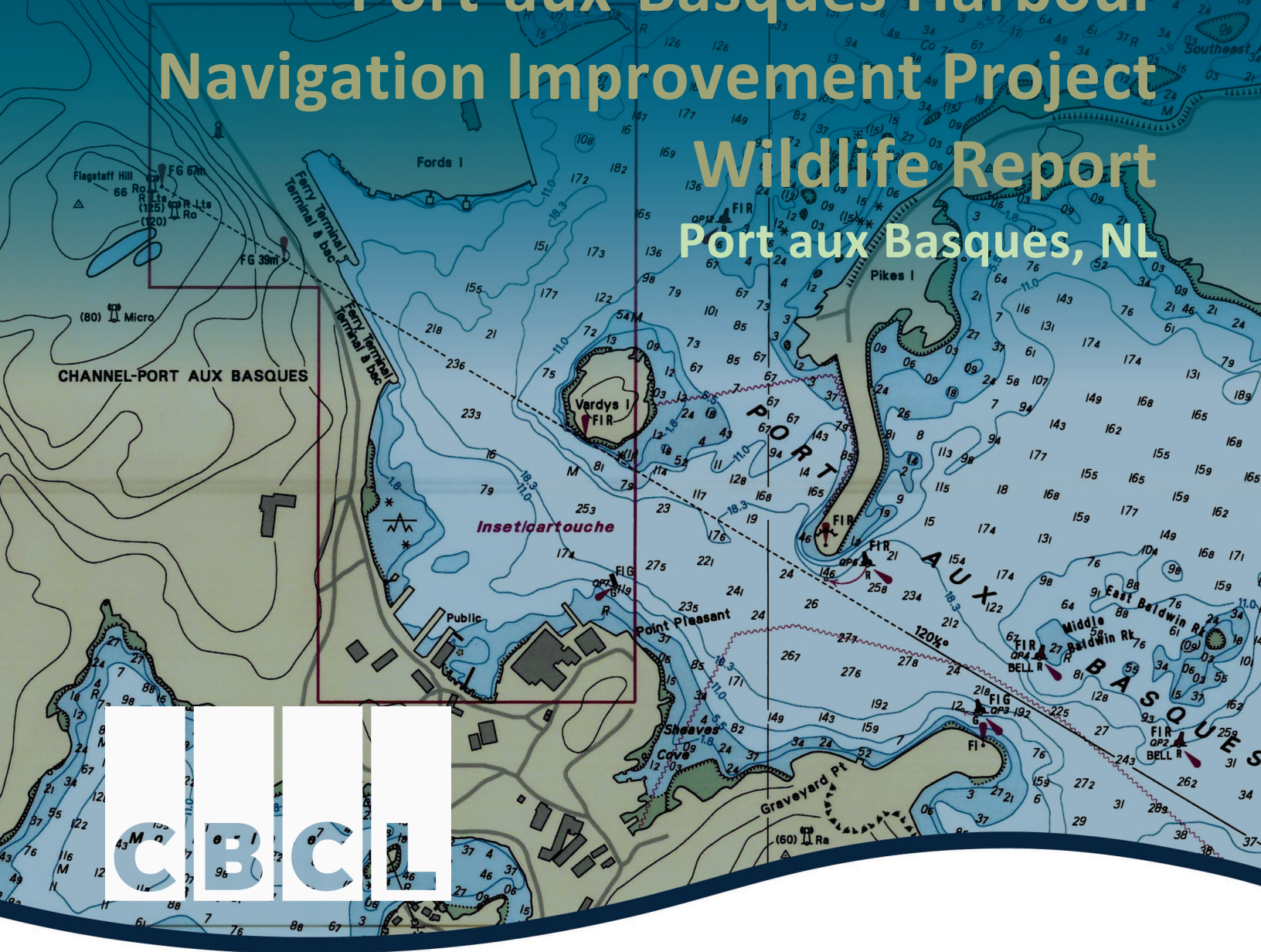


MARINE ATLANTIC INC.

Port-aux-Basques Harbour Navigation Improvement Project Wildlife Report Port aux Basques, NL



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Marine Atlantic Inc. (MAI) is proposing improvements to the navigation conditions in Port aux Basques Harbour, NL (the Project). The proposed navigational improvements in the harbour involve realignment of the navigation channel and the establishment of a new turning basin. Activities required to achieve these navigational improvements include deepening the realigned channel and new turning basin, removal of Vardy's Island, partial removal of Baldwin Rock, and re-use and/or disposal of the material.

To support the design of the Project and applications for environmental approvals, CBCL Limited (CBCL) completed desktop reviews for wildlife and avifauna as well as a series of field surveys for avifauna within and around Port aux Basques Harbour in order to obtain data on wildlife diversity and document the occurrence of any federal or provincial species at risk (SAR) or species of conservation concern (SoCC) present in the area.

This report presents CBCL's methods and results for the desktop review and avifauna surveys conducted around Port aux Basques Harbour in 2019 and 2020. Figure 1.1 depicts the Study Area and general location of the site. Incidental wildlife observations are also described.

2.1 Desktop Review for Wildlife

2.1.1 AC CDC Database Review for Wildlife

An Atlantic Canada Conservation Data Centre (AC CDC) listing of rare and endangered wildlife and plant species sightings was acquired for an area within a 5 km radius of Port aux Basques Harbour. This information was used to guide the selection of point survey locations for birds.

The AC CDC Data Report (AC CDC, 2026) is provided in Appendix A.

Note that marine mammals and fish are addressed in a separate document.

2.1.2 eBird and iNaturalist Fauna Records for Port aux Basques

To supplement the AC CDC report, two online citizen science databases of wildlife species data, eBird and iNaturalist, were consulted. Both are online databases which allow scientists, researchers, and amateur naturalists to report georeferenced sightings of species, and to view observation records reported by others. As the name indicates, eBird is restricted to bird species, while iNaturalist incorporates records for flora and fauna species.

Fauna species listed in each of these databases for the Port aux Basques area were identified for the purposes of the desktop assessment.

2.1.3 Canadian Wildlife Service - Purple Sandpiper Data

The Canadian Wildlife Service (CWS) noted that Purple Sandpipers (*Calidris maritima*) may utilize habitats within the Study Area. Purple Sandpipers are not currently a SAR Canada or NL; however, they are considered a SoCC in NL and their designation changed to high concern in the 2019 (Hope et al., 2019).

Data on purple sandpiper locations were provided by CWS for review as part of the desktop wildlife assessment for this Project.

2.2 Species Status and Ranking Definitions

The following sources were used to determine the status of wildlife species:

- Newfoundland and Labrador *Endangered Species Act* (NL ESA)
- *Species at Risk Act* (SARA)
- Committee on the Status of Endangered Wildlife in Canada (COSEWIC)
- Atlantic Canada Conservation Data Centre (AC CDC)

For the purposes of this report, SAR refers to those that are listed on Schedule 1 of SARA or provincially protected under the NL ESA. SAR are defined as only those species that meet the following criteria:

- Listed under NL ESA as Extirpated, Endangered, Threatened, or Vulnerable
- Listed under SARA Schedule 1 as Extirpated, Endangered, Threatened, or Special Concern

SoCC differ from SAR as they are not federally protected under Schedule 1 of SARA or provincially protected under relevant provincial species at risk legislation, such as the NL ESA. SoCC are uncommon to rare species that may be designated by COSEWIC and which may qualify for future protection and recovery under the federal *Species at Risk Act*. SoCC also include those that are provincially rare and are tracked by the AC CDC but have not yet been granted legislated protection under the NL ESA. For the purposes of this assessment, SoCC are species that are:

- Identified by COSEWIC as either Endangered, Threatened, or Special Concern. but not listed under SARA Schedule 1
- Ranked by the AC CDC as variants of S1, S2, or S3 (including S3S4) in NL

Species ranks are defined by the AC CDC for each of the Atlantic Provinces; definitions of these ranks are provided in Table 2.1. Note that AC CDC ranks are determined separately for NL and Labrador; this report uses the ranks determined for populations in NL. It should be noted that species rankings are not static; as more sightings are recorded (or species reports decline), ranks can be changed through a process of evaluation by AC CDC.

Table 2.1: Interpretation of Subnational Rarity Ranks (S-Ranks) (AC CDC, 2020)

Newfoundland S-Rank	Definition
S1	Critically Imperiled - Critically imperiled in the province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the province.
S2	Imperiled - Imperiled in the province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the province.
S3	Vulnerable - Vulnerable in the province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.
S4	Apparently Secure - Uncommon but not rare; some cause for long-term concern due to declines or other factors.
S5	Secure - Common, widespread, and abundant in the province.
SNR	Unranked - Provincial conservation status not yet assessed.
SU	Unrankable - Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.
SNA	Not Applicable - A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

2.3 Avifauna Field Surveys

The avifauna survey methodology utilized for this project was adapted from Environment Canada Canadian Wildlife Service's (2007) *Recommended Protocols for Monitoring Impacts of Wind Turbines on Birds*. Avifauna surveys were conducted in and around Port aux Basques Harbour from fall 2019 to late summer 2020. A total of 18 point-count locations and two nest survey areas were selected. The point-count locations were located along the coast around the perimeter of Port aux Basques Harbour and on Vardy's and Pikes Islands, while the nest survey areas encompassed both of these islands. Supplemental area searches, using a spotting scope, were also conducted at the point-count locations. Types, dates and timing of surveys, as well as names of surveyors, are provided in Table 2.2. The survey locations are depicted on Figure 2.1.

Table 2.2: Avian Survey Summary for Navigation Improvements Project

Date	Surveyor	Survey Type	Time of Day	Survey Types
October 22 & 23, 2019	Carrie Bentley	Fall Migration	Daytime	Point counts & area searches
March 6 & 7, 2020	Holly Hogan	Winter Resident	Daytime	Point counts & area searches
May 15-17, 2020	Holly Hogan	Spring Migration	Daytime	Point counts & area searches
June 17-19, 2020	Holly Hogan	Breeding Birds; Nest Surveys; Short-eared Owl Surveys	Morning, Daytime; After 8:30 pm	Point counts & area searches, Nest searches, Nocturnal owl survey
September 10 & 11, 2020	Beth Cameron	Fall Migration	Daytime	Point counts & area searches
October 15- 15 2020	Holly Hogan	Fall Migration	Daytime	Point counts & area searches, habitat assessment for Purple Sandpiper



- Short Eared Owl Survey Locations
- Point Count Locations

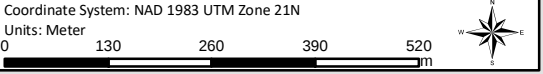


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Navigation Improvements Project
Port aux Basques, Newfoundland and Labrador

Figure 2.1: Bird Survey Locations

Drawn by: NH	Date: 2020-09-24
Checked: BC	CBCL Project #: 202479.05
Approved:	Scale @ 11" x 17" : 1:9,488

Notes:



2.3.1 Spring and Fall Migratory Surveys

These surveys consisted of point counts and area searches conducted at a series of pre-determined locations around and within Port Aux Basques Harbour. Eighteen single-observer, 15-minute, unlimited radius point count surveys were conducted within the Study Area in suitable weather conditions (minimal precipitation and wind speed <25 km/hr, where possible). Surveys could not be conducted directly on Vardy's Island itself during the winter survey program, due to weather-related access constraints. Instead, the Island was surveyed from shore via a spotting scope. Locations of point counts and area searches are depicted on Figure 2.1.

All species detected visually or by sound were recorded, and individuals were monitored throughout the duration of the surveys in order to limit double counting. Species detected during point count surveys were recorded as individuals or as flyovers. Area searches were conducted within the Study Area for the remainder of the site visit and all detected species were recorded. Species that were encountered during area searches (outside of the point count survey periods) were recorded as incidentals. The total number of individuals of each species recorded within the Study Area was calculated from the number of individuals, flyovers, and incidentals that were recorded during the site visit. Point count location photos are provided in Appendix B.

2.3.2 Winter Resident Bird Survey

Winter resident bird surveys were completed to identify species in and around Port aux Basques Harbour during the winter months. Surveys aimed to identify species of conservation concern present in or adjacent to the Project Area. Surveys were conducted at the same locations as the migratory and breeding bird surveys, and followed the same methodology as the spring and fall migratory surveys.

Species richness and abundance were calculated for each round of winter bird surveys. Species richness and abundance were based on all species recorded at each survey location.

2.3.3 Breeding Bird Survey

Breeding bird surveys were conducted in June 2020, and were similar to the migratory surveys with the exception that the breeding bird surveys occurred between 30 min before sunrise and 4 hours after, during the period of greatest bird activity. Behaviour of birds and evidence of any breeding or nesting behaviour was noted. Adult specimens detected in suitable breeding habitat were classified as possible breeders, while adults detected singing in suitable breeding habitat were determined to be probable breeders. Adults displaying courtship or mating behaviours, building nests, tending eggs or young, or the presence of eggs or young were determined to be confirmed breeders. Species which were not exhibiting and breeding behaviours and outside of suitable breeding habitat were listed as no evidence.

2.3.4 Area Nest Searches

During the nesting bird period (May and June), area nest searches were completed in the area of the Vardy's Island and Pikes Island. Locations of nest areas searches are depicted on Figure 2.1.

Precautionary measures were implemented to avoid potential disruption to nests or migratory birds, such as avoiding any occupied nests, and establishing buffer around occupied nest as to not disturb any nesting activities. Additional care was also employed to avoid physical disruption or damage to nests of

migratory birds, such as feet positioning around the nests. The area nest searches included the identification of breeding birds, their nests, eggs, and/or young. Where observed, the locations of bird observations were recorded using handheld GPS.

2.3.5 Short-eared Owl Surveys

Due to the presence of suitable nesting habitat and the discovery of a possible Short-eared Owl nest on Vardy's Island in October 2019, targeted Short-eared Owl surveys were conducted in June of 2020. The methodology utilized was adapted from an established Short-eared Owl survey protocol (Saskatchewan Ministry of Environment, 2015). Five survey stations were selected. Locations of Short-eared Owl survey points are depicted on Figure 2.1. The surveys included three-minute survey durations and were completed within one hour before sunset to 30 minutes after sunset. This survey was repeated over three evenings, on June 17, 18 and 19, 2020.

During the three-minute point counts, any Short-eared Owls identified visually or heard within 400 m were recorded. Owls detected beyond 400 m from the station were documented separately. Where possible, the approximate location of the location of the birds was recorded.

2.3.6 Purple Sandpiper Habitat Assessment

A purple sandpiper habitat survey was conducted in October of 2020 to assess the potential use of the shores of Vardy's and Pikes Islands by wintering purple sandpipers. The shores of these islands were divided into sections, and physical site characteristics of each section were assessed in the field. Characteristics included substrate type, width, and slope of intertidal zone, density of algal cover, and exposure to the open ocean. These were then ranked from 1 to 3 in terms of suitability, and the average value of these five parameters was then calculated to determine the overall suitability of each section.

2.3.7 Incidental Wildlife Observations

On occasion, birds and or their nests were detected during other surveys conducted for this Project, in particular during the vegetation surveys conducted on Vardy's Island and Pikes Island. These observations were recorded with a hand-held held GPS unit, when possible.

2.4 Habitat Assessment

Field surveys to document the vegetation species and communities present on Vardy's Island were conducted on October 22, 2019. Surveys were conducted again on July 23, 2020, and were also conducted on Pikes Island on that date. The search pattern used in the field was a random meander (Henderson, 2009), an accepted method for detecting the presence or absence of most vegetation species including rare flora. All habitat types evident in the field were visited. Observations of plant species types and forms, as well as topography, were noted and used to categorize the habitats present into general categories.

2.5 Wildlife Observations

CBCL ecologists recorded any evidence of wildlife species observed during the 2019/2020 vascular plant and lichen surveys or the migratory, resident, breeding bird, nest, or owl surveys. Types of evidence included: direct observations of adult or juvenile mammals or amphibians (including eggs or larvae), mammal or amphibian vocalizations, tracks, pellet groups or scat, dens, skeletal remains, evidence of ungulate browse, or structures created by mammals (lodges, dams, and burrows). This survey method, while unsuitable for estimating the abundance of a particular species, is useful for basic presence/absence declarations and may provide the basis for further investigation of important habitats or potential species at risk. When a species (or evidence thereof) was detected, it was photographed (if possible) and a note was made of the general area it occurred in.

3.1 Desktop Review

3.1.1 AC CDC Fauna Report

The Port aux Basques Harbour AC CDC data report for the Port aux Basques Harbour area identified one wildlife SAR (not including fish) that has been recorded within 5 km of Port aux Basques Harbour. This species, conservation rankings, and approximate reported location are provided in Table 3.1. No other terrestrial SoCC were reported by the AC CDC.

The full AC CDC report is provided in Appendix A.

Table 3.1: Wildlife Species Listed under the NL ESA and/or the Federal SARA that have been Recorded by AC CDC within 5 km of Port aux Basques Harbour

Common Name	Scientific Name	AC CDC S-Rank	NL ESA	SARA	Reported Locations
Piping Plover	<i>Charadrius melodus</i>	S1BSU M	Endangered	Endangered	Multiple locations within 5 km, but none within Port aux Basques Harbour

Short-eared owl, reported in the vicinity through eBird, could potentially use habitats on Vardy's Island. This possibility is discussed in more detail in Section 3.2 of this report. There is no suitable foraging or breeding habitat on Vardy's Island or Pikes Island for Piping Plover, as this species requires sandy beaches for nesting, which do not occur within the Study Area.

3.1.2 Canadian Wildlife Service - Purple Sandpiper Data

CWS expressed some concern regarding the potential for Purple Sandpiper possibly occurring in the vicinity of the Project. Purple Sandpiper is a small shorebird species which is found mostly on rocky, wave-battered coastlines and breeds in the north on Arctic tundra. They also overwinter further north than other shorebirds, rarely moving further south than North Carolina. They are ranked as S2S3N,SUM in Newfoundland, meaning the non-breeding population is considered imperiled to vulnerable and the migratory population's status is unknown (see Section 2.2 for a definition of ranks). They were recently designated as a high concern species (Hope et al., 2019).

This species is known to be highly faithful to specific sites in wintering areas in the eastern Atlantic (Mittelhauser et al., 2012). In the eastern US (Maine) purple sandpipers have been shown to prefer wave-exposed rocky shorelines, peninsulas, and offshore islands with intertidal ledges supporting their main winter prey of mollusks and crustaceans (Mittelhauser et al., 2013). They are known to prefer

areas with shallow-sloping bedrock (Summers et al, 1988). In Eastern Canada, Gutowsky et al. (2019) found that the probability of Purple Sandpiper presence was highest when natural barriers (e.g. headlands) and human activity were both present, with the probability increasing with higher mean tide height and higher coastline ruggedness. In Nova Scotia, wintering purple sandpipers forage for intertidal marine invertebrate species, primarily periwinkles and mussels, but also many arthropods (Mallory et al., 2016). As they generally forage in intertidal zones, purple sandpipers avoid areas encased in ice, which prohibits foraging. They are also known to utilize anthropogenic structures when available, for resting purposes when other habitats are unsuitable (Atkinson et al., 1978).

A review of the Purple Sandpiper data provided by CWS revealed that this species has been reported all around the coast of Newfoundland. A map of Purple Sandpiper sightings observed by CWS from 2006 to 2017 is provided in Appendix B. While no Purple Sandpipers were reported within the Study Area for this project, reports are present within 2 km of the Marine Atlantic Terminal in Port aux Basques Harbour, at very exposed portions of the coastline. As the coastal habitat in the harbour is similar in many respects to that present in the larger area, it is possible that Purple Sandpipers may utilize habitats within Port aux Basques Harbour, though shoreline winter ice conditions reduce this possibility.

3.1.3 eBird and iNaturalist

The eBird database lists 116 species of avifauna from the Port Aux Basques area. iNaturalist lists bird species for the general area of Port aux Basques. In total, 125 species are listed within these databases for the Project Area. Of these species, 37 are considered to be SoCC in NL, and are listed in Table 3.2. Of these, two are also listed as SAR under the federal SARA and/or the NL ESA. Details are provided in Table 3.2.

Table 3.2: SoCC birds reported by eBird as occurring within the Port aux Basques area or by iNaturalist from the Port aux Basques area.

Species	Scientific Name	SARA	NL ESA	NL S-Rank	Source of Record
American Pipit	<i>Anthus rubescens</i>			S3B,S4M	eBird
American Tree Sparrow	<i>Spizelloides arborea</i>			S3B,SUM	eBird
Barn Swallow	<i>Hirundo rustica</i>	T	V	S2M,SUM	eBird
Bay-breasted Warbler	<i>Setophaga castanea</i>			S2B,SUM	eBird
Belted Kingfisher	<i>Megaceryle alcyon</i>			S4B,S3N,SUM	eBird
Black Scoter	<i>Melanitta americana</i>			S2B,S2N,SUM	eBird
Black-bellied Plover	<i>Pluvialis squatarola</i>			S3M	iNaturalist
Black-headed Gull	<i>Chroicocephalus ridibundus</i>			S1B,S3N,SUM	eBird
Bufflehead	<i>Bucephala albeola</i>			S1S2B,S1S2N,SUM	eBird
Chipping Sparrow	<i>Spizella passerina</i>			S2S3B,SUM	eBird
Common Grackle	<i>Quiscalus quiscula</i>			S4B,S3?N,SUM	eBird
Common Yellowthroat	<i>Geothlypis trichas</i>			S3B,SUM	eBird

Species	Scientific Name	SARA	NL ESA	NL S-Rank	Source of Record
Great Blue Heron	<i>Ardea herodias</i>			S2B,SUM	eBird
Great Cormorant	<i>Phalacrocorax carbo</i>			S3B,S3N	iNaturalist, eBird
Killdeer	<i>Charadrius vociferus</i>			S3B,SUM	iNaturalist, eBird
Least Sandpiper	<i>Calidris minutilla</i>			S3B,S4M	iNaturalist
Lesser Yellowlegs	<i>Tringa flavipes</i>		T	S2S3M	iNaturalist
Long-tailed Duck	<i>Clangula hyemalis</i>			S2B,S5N	eBird
Mallard	<i>Anas platyrhynchos</i>			S3B,SUM	eBird
Manx Shearwater	<i>Puffinus puffinus</i>			S1B	eBird
Mourning Dove	<i>Zenaida macroura</i>			S3	eBird
Nashville Warbler	<i>Leiothlypis ruficapilla</i>			S2B,SUM	eBird
Northern Fulmar	<i>Fulmarus glacialis</i>			S1B	eBird
Northern Gannet	<i>Morus bassanus</i>			S2B	iNaturalist, eBird
Northern Harrier	<i>Circus hudsonius</i>			S3B,SUM	iNaturalist, eBird
Northern Saw-whet Owl	<i>Aegolius acadicus</i>			S3B	eBird
Purple Sandpiper	<i>Calidris maritima</i>			S3N	eBird
Razorbill	<i>Alca torda</i>			S3B	eBird
Redpoll	<i>Acanthis flammea</i>			S2S3B,S4N,SUM	eBird
Rough-legged Hawk	<i>Buteo lagopus</i>			S2S3	eBird
Sanderling	<i>Calidris alba</i>			S2N,S3M	eBird
Semipalmated Plover	<i>Charadrius semipalmatus</i>			S1B,S4M	iNaturalist, eBird
Semipalmated Sandpiper	<i>Calidris pusilla</i>			S3M	iNaturalist
Short-billed Dowitcher	<i>Limnodromus griseus</i>			S3M	iNaturalist
Snow Bunting	<i>Plectrophenax nivalis</i>			S2N,S5M	eBird
White-rumped Sandpiper	<i>Calidris fuscicollis</i>			S3M	eBird
Willet	<i>Tringa semipalmata</i>			S1B,SUM	iNaturalist

E= Endangered, T= Threatened, V= Vulnerable, SC= Special Concern

SAR are in **bold**

One additional bird SAR, the Prothonotary Warbler (*Prothonotaria citrea*), has been reported from the area. Designated under SARA as endangered, the Prothonotary Warbler is a medium sized, bright yellow migratory songbird that breeds in southwestern Ontario and the southeastern United States, and overwinters in south Central American and the northern portion of South America (COSEWIC, 2007). It

does not breed in Atlantic Canada. As this species does not normally occur in NL, this specimen is considered a vagrant and is therefore not discussed further in this document.

A few other fauna species were reported from the Port aux Basques area by iNaturalist, however, none of these are considered to be SAR or SoCC in NL.

3.2 Avifauna - Field Surveys

A total of 52 bird species were observed during all of the surveys combined. A summary of the results for each of the avifauna surveys is provided in the following subsections. The full inventory of birds identified within the Study Area during all surveys is provided in Appendix E. No SAR listed under SARA or the NL ESA were observed during any of the surveys.

3.2.1 Fall Migration Surveys

3.2.1.1 OCTOBER 2019

The October 2019 survey yielded 118 individuals, comprising at least 10 species recorded within the Port aux Basques Harbour area (Table 3.3). The three most abundant species observed were the Herring Gull (55 individuals), Great Black-backed Gull (36 individuals) and American Crow (17 individuals).

Table 3.3: Avifauna Identified within the Port Aux Basques Harbour Area During the Fall Bird Survey on October 22-23, 2019

Functional Group	Common Name	Scientific Name	NL S-Rank	Total
Gulls and Terns	Great Black-backed Gull	<i>Larus marinus</i>	S4	36
	Herring Gull	<i>Larus argentatus</i>	S4	55
Landbirds	American Crow	<i>Corvus brachyrhynchos</i>	S5	17
	Common Grackle	<i>Quiscalus quiscula</i>	S4B,S3?N,SUM	2
	Dark-eyed Junco	<i>Junco hyemalis</i>	S5	1
	House Sparrow	<i>Passer domesticus</i>	SNA	2
Seabirds	Thick-billed Murre	<i>Uria lomvia</i>	S4B	2
Shorebirds	Greater Yellowlegs	<i>Tringa melanoleuca</i>	S3B, S4M	0
Waterbirds	Cormorant sp.	<i>Phalacrocorax</i> sp.	S3B,S3N or S5B	2
Waterfowl	American Black Duck	<i>Anas rubripes</i>	S4B,S4N	1
Total species: 9 + 1 unidentified taxon			Total Individuals: 118	

3.2.1.2 SEPTEMBER 2020

During the September 2020 survey, a total of 149 birds were detected within the Port Aux Basques Harbour area, representing 15 species (Table 3.4). The three (3) most abundant species observed were the Herring Gull (*Larus argentatus* – 38 individuals), American Goldfinch (*Carduelis tristis* - 30 individuals), and Double-crested Cormorant (*Phalacrocorax carbo* -21 individuals). A summary of the

total species and individuals identified within the Study Area during all surveys is provided in Appendix E.

Table 3.4: Avifauna identified within the Study Area During the Fall Migration Survey on September 10-11, 2020

Functional Group	Common Name	Scientific Name	NL S-Rank	Total
Gulls and Terns	Great Black-backed Gull	<i>Larus marinus</i>	S4	12
	Herring Gull	<i>Larus argentatus</i>	S4	38
Kingfishers	Belted Kingfisher	<i>Megasceryle alcyon</i>	S4B, S3N,SUM	2
Landbirds	American Crow	<i>Corvus brachyrhynchos</i>	S5	2
	Rock Pigeon	<i>Columba livia</i>	SNA	8
	Northern Flicker	<i>Colaptes auratus</i>	S4	1
	American Goldfinch	<i>Carduelis tristis</i>	S5	30
	Savannah Sparrow	<i>Passerculus sandwichensis</i>	S5B	12
	Black-capped Chickadee	<i>Poecile atricapilla</i>	S5	1
	Palm Warbler	<i>Dendroica palmarum</i>	S4B	1
Raptors	Merlin	<i>Falco columbarius</i>	S4S5B,SUM	3
	Northern Harrier	<i>Circus cyaneus</i>	S3B,SUM	6
Seabirds	Northern Gannet	<i>Morus bassanus</i>	S2B	5
Shorebirds	Greater Yellowlegs	<i>Tringa melanoleuca</i>	S4B,SUM	7
Waterbirds	Double-crested Cormorant	<i>Phalacrocorax auritus</i>	S5B	21
Total species: 15			Total Individuals: 149	

3.2.1.3 OCTOBER 2020

The October 2020 survey yielded 79 individuals, comprising of 13 species recorded within the Port aux Basques Harbour area (5). The three most abundant species observed were the Pine Siskin 21 individuals), Herring Gull (18 individuals) and Great Black-backed Gull (14 individuals).

Table 3.5: Avifauna Identified within the Port Aux Basques Harbour Area During the Fall Bird Survey on October 13-16, 2020

Functional Group	Common Name	Scientific Name	NL S-Rank	Total
Gulls and Terns	Great Black-backed Gull	<i>Larus marinus</i>	S4	14
	Herring Gull	<i>Larus argentatus</i>	S4	18
	Black-legged Kittiwake	<i>Rissa tridactyla</i>	S5B	1
Landbirds	American Crow	<i>Corvus brachyrhynchos</i>	S5	4
	Common Raven	<i>Corvus corax</i>	S5	1
	American Robin	<i>Turdus migratorius</i>	S5B	2
	Savannah Sparrow	<i>Passerculus sandwichensis</i>	S5B	2
	Pine Siskin	<i>Carduelis pinus</i>	S4B,SUM	21

Functional Group	Common Name	Scientific Name	NL S-Rank	Total
Raptors	Sharp-shinned Hawk	<i>Accipiter striatus</i>	S4	1
Seabirds	Black Guillemot	<i>Cephus grylle</i>	S5B	5
	Northern Gannet	<i>Morus bassanus</i>	S2B	1
Waterbirds	Double-crested Cormorant	<i>Phalacrocorax auritus</i>	S5B	1
Waterfowl	American Black Duck	<i>Anas rubripes</i>	S4B,S4N	8
Total species: 13		Total Individuals: 79		

3.2.2 Winter Resident Survey (March 2020)

The winter survey yielded 534 individuals, comprising 10 species recorded within the Study Area (Table 3.6). The three most abundant species observed were the Common Eider (386 individuals), Great Black-backed Gull (84 individuals) and Herring Gull (34 individuals).

Table 3.6: Avifauna Identified within the Study Area During the Winter Bird Survey on March 6-7, 2020

Functional Group	Common Name	Scientific Name	NL S-Rank	Total
Gulls and Terns	Great Black-backed Gull	<i>Larus marinus</i>	S4	84
	Herring Gull	<i>Larus argentatus</i>	S4	34
	Glaucous Gull	<i>Larus hyperboreus</i>	S3B,S3N	1
	Iceland gull	<i>Larus glaucoides</i>	S5N	6
	Unidentified white-winged Gull	<i>Larus glaucoides</i> OR <i>L. hyperboreus</i>	S5N or S3B,S3N	4
Landbirds	Common Raven	<i>Corvus corax</i>	S5	8
Raptors	Bald Eagle	<i>Haliaeetus leucocephalus</i>	S4	1
Seabirds	Black Guillemot	<i>Cephus grylle</i>	S5B	3
Waterbirds	Common Loon	<i>Gavia immer</i>	S5B,S4N,SNRM	1
	Great Cormorant	<i>Phalacrocorax carbo</i>	S3B,S3N	6
Waterfowl	Common Eider	<i>Somateria mollissima</i>	S5B, S5N	386
Total species: 10		Total Individuals: 534		

3.2.3 Spring Migratory Survey

The spring survey in May 2020 yielded 360 individuals, comprising 25 species recorded within the Port Aux Basques Harbour area (Table 3.7). The three (3) most abundant species observed were the Herring Gull (*Larus argentatus* – 34 individuals), Double-crested Cormorant (*Phalacrocorax carbo* - 42 individuals) and Great Black-backed Gull (39 individuals).

Table 3.7: Avifauna Identified within the Study Area During Spring Survey from May 15-17, 2020

Functional Group	Common Name	Scientific Name	NL S-Rank	Total
Gulls and Terns	Great Black-backed Gull	<i>Larus marinus</i>	S4	40
	Herring Gull	<i>Larus argentatus</i>	S4	209
	Iceland gull	<i>Larus glaucoides</i>	S5N	1

Functional Group	Common Name	Scientific Name	NL S-Rank	Total
	Ring-billed Gull	<i>Larus delawarensis</i>	S4B,SUM	2
Kingfishers	Belted Kingfisher	<i>Megasceryle alcyon</i>	S4B, S3N,SUM	2
Landbirds	American Crow	<i>Corvus brachyrhynchos</i>	S5	2
	Common Raven	<i>Corvus corax</i>	S5	5
	Song Sparrow	<i>Melospiza melodia</i>	S4B,SUM	3
	Rock Pigeon	<i>Columba livia</i>	SNA	8
	Ruby-crowned Kinglet	<i>Regulus calendula</i>	S5B	2
	Chipping Sparrow	<i>Spizella passerina</i>	S2S3B,SUM	3
	American Robin	<i>Turdus migratorius</i>	S5B	12
	Orange-crowned Warbler	<i>Vermivora celata</i>	SNA	2
	White-throated Sparrow	<i>Zonotrichia albicollis</i>	S5B	4
	Fox Sparrow	<i>Passerella iliaca</i>	S5B	4
	Northern Flicker	<i>Colaptes auratus</i>	S4	1
	American Goldfinch	<i>Carduelis tristis</i>	S5	4
	Savannah Sparrow	<i>Passerculus sandwichensis</i>	S5B	8
Seabirds	Black Guillemot	<i>Cephus grylle</i>	S5B	2
Shorebirds	Greater Yellowlegs	<i>Tringa melanoleuca</i>	S4B,SUM	1
	Wilson's Snipe	<i>Gallinago delicata</i>	S5B	1
Waterbirds	Great Cormorant	<i>Phalacrocorax carbo</i>	S3B,S3N	1
	Double-crested Cormorant	<i>Phalacrocorax auritus</i>	S5B	38
Waterfowl	Canada Goose	<i>Branta canadensis</i>	S4B	2
	Bufflehead	<i>Bucephala albeola</i>	S1S2B,S1S2N,SUM	3
Total species: 25			Total Individuals: 360	

3.2.4 Breeding Bird Survey (June 2020)

The survey conducted during the peak breeding bird season yielded 267 individuals, comprising 25 species recorded within the Port Aux Basques Harbour area (Table 3.8). The three most abundant species observed were the Great Black-backed Gull (110 individuals), Herring Gull (67 individuals), and Double-crested Cormorant (21 individuals). Of the 25 species detected, two were confirmed to be breeding within the Study area, while nine were probable breeders and ten were considered possible breeders. The remaining four species were considered unlikely to breed as suitable habitat was not present or the Study Area is outside the breeding range of this species.

Table 3.8: Avifauna identified within the Study Area during the Summer Breeding Survey from June 17-19, 2020, with Apparent Breeding Status (based on habitats present and individual behaviour)

Functional Group	Common Name	Scientific Name	NL S-Rank	Total	Breeding Status
Gulls and Terns	Great Black-backed Gull	<i>Larus marinus</i>	S4	110	Confirmed
	Herring Gull	<i>Larus argentatus</i>	S4	67	Confirmed
	Ring-billed Gull	<i>Larus delawarensis</i>	S4B,SUM	3	Possible

Functional Group	Common Name	Scientific Name	NL S-Rank	Total	Breeding Status
Landbirds	American Crow	<i>Corvus brachyrhynchos</i>	S5	2	Possible
	Dark-eyed Junco	<i>Junco hyemalis</i>	S5	4	Possible
	Common Raven	<i>Corvus corax</i>	S5	1	Possible
	Song Sparrow	<i>Melospiza melodia</i>	S4B,SUM	3	Possible
	American Robin	<i>Turdus migratorius</i>	S5B	8	Probable
	White-throated Sparrow	<i>Zonotrichia albicollis</i>	S5B	1	Probable
	Fox Sparrow	<i>Passerella iliaca</i>	S5B	4	Probable
	American Goldfinch	<i>Carduelis tristis</i>	S5	6	Probable
	Northern Yellow Warbler	<i>Dendroica petechia</i>	S5B	4	Probable
	Yellow-rumped Warbler	<i>Dendroica coronata</i>	S5B	5	Probable
	Common Yellowthroat	<i>Geothlypis trichas</i>	S5B	3	Probable
	Cedar Waxwing	<i>Bombycilla cedrorum</i>	S4B,SUM	11	Possible
	Northern Waterthrush	<i>Seiurus noveboracensis</i>	S5B	2	Possible
	Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	S5B	3	Possible
	Swamp Sparrow	<i>Melospiza georgiana</i>	S5B	1	Probable
	White-winged Crossbill	<i>Loxia leucoptera</i>	S5	1	Noevidence
	Savannah Sparrow	<i>Passerculus sandwichensis</i>	S5B	1	Probable
Shorebirds	Greater Yellowlegs	<i>Tringa melanoleuca</i>	S3B, S4M	1	Unlikely
	Spotted Sandpiper	<i>Actitis macularius</i>	S4B,SUM	3	Possible
Waterbirds	Common Loon	<i>Gavia immer</i>	S5B,S4N,S NRM	1	Unlikely
	Double-crested Cormorant	<i>Phalacrocorax auritus</i>	S5B	20	Possible
Waterfowl	Canada Goose	<i>Branta canadensis</i>	S4B	2	Unlikely

Possible= suitable habitat present

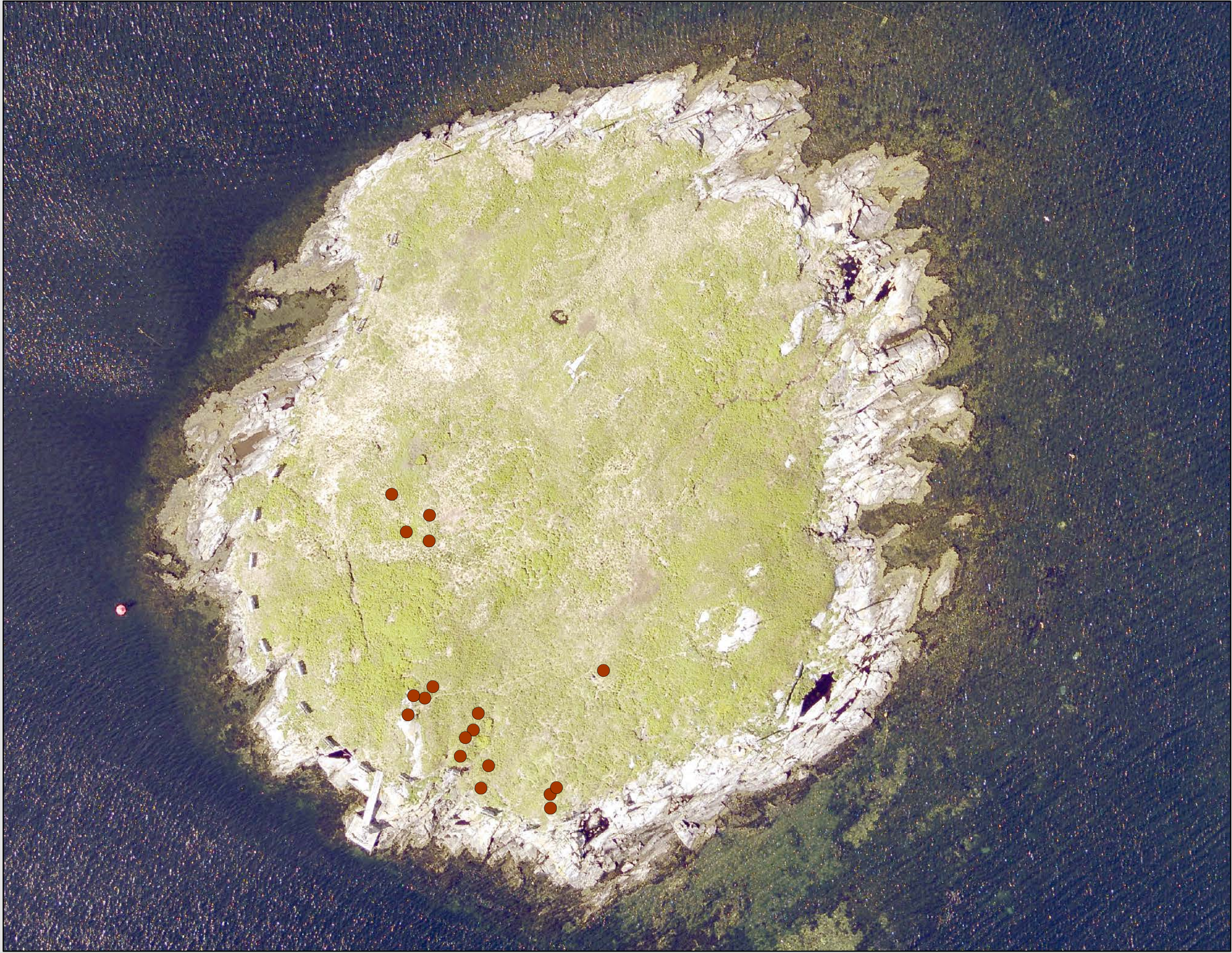
Probable - singing adults detected in suitable habitat

Confirmed - nest or young observed

Unlikely - no suitable habitat present in Study Area

3.2.5 Area Nest Searches

No nests were found on Pikes Island; however, a gull breeding colony was observed on Vardy's Island. This consisted of a mix of Great Black-backed Gulls (seven nests) and Herring Gulls (six nests). Nests were identified to species in May, when adults were still attending them. The locations of nests were mapped on July 23, 2020; however, the chicks had fledged and adults were no longer tending the nests, so the nests could not be attributed to a specific gull species reliably. Six additional nests were also noted in July. Locations are shown on Figure 3.1.



Legend

● Nest Locations

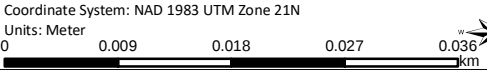


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Figure 3.1: Nest Locations on Vardys Island

Drawn by: NH	Date: 2020-09-30
Checked:	CBCL Project #: 202479.05
Approved:	Scale @ 11" x 17" : 1:600

Notes:
Gull nest locations on Vardys Island



3.2.6 Short-eared Owl Surveys

No confirmed or suspected Short-eared Owls were detected during the targeted surveys on June 17, 18, or 19, 2020.

3.2.7 Purple Sandpiper Habitat Assessment

The results of the Purple Sandpiper habitat assessment conducted in October 2020 are depicted on Figure 3.2. No Purple Sandpipers were observed during the assessment. None of the shoreline sections assessed on Vardy's or Pikes Islands were determined to have good habitat suitability, based on the relatively sheltered location of each from the Atlantic Ocean. This lack of direct exposure would likely lead to these sections accumulating considerable ice buildup during winter, hindering foraging activities by Purple Sandpipers.

3.2.8 Incidental Observations

A single Greater Yellowlegs was also observed during the vegetation survey on Vardy's Island on July 23, 2020. At least four pairs of agitated Great Black-backed Gulls were also noted around the island, as well as two abandoned eggs and two dead fledglings. None of the adults were attending nests or chicks, but were still quite vocal when humans visited the island.

A dead Dovekie (*Alle alle*) was noted on the Old Dump Road leading to Pikes Island in May of 2020. The remains of what appear to be a small dead alcid (which could be a Dovekie) were found on the trail leading to Pikes Island in September 2020, this may be the same bird. Dovekies are not ranked by the CDC in NL as of 2015, so there is no provincial rank for this species. These small seabirds do not breed in NL and generally only come ashore accidentally after strong wind events.

3.3 Habitats

Three main habitat types occur on Vardy's or Pikes Islands:

- Herbaceous habitat
- Shrub habitat
- Rocky shore

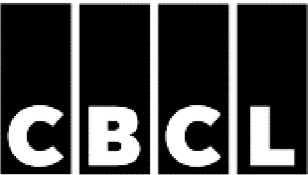
No forest cover is present on Vardy's or Pikes Islands. The rocky shore habitat was mapped using aerial photography; however, the remaining habitat types could not be mapped in this way. The main habitat types are depicted on Figure 3.3. These habitat types and their potential use by wildlife (mostly birds) are discussed in the following subsections. Further detail on vegetation species and communities is provided in the Vascular Plant and Lichen Report (CBCL, 2026).

There is little habitat suitable for medium-sized to large mammal species, and no forest cover is present. No reptile or amphibian species are predicted to occur on Vardy's Island due to its small size and lack of suitable freshwater wetlands or waterbodies for amphibian reproduction. Pikes Island is also unlikely to support amphibian breeding for the same reasons.



**Purple Sandpiper
Winter Habitat
Suitability**

- Moderate
- Poor

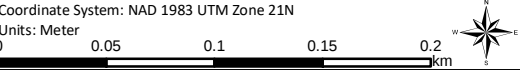


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Figure 3.2: Shoreline Habitat Suitability for Purple Sandpiper on Vardy’s and Pikes Islands

Drawn by: NH	Date: 2020-11-03
Checked:	CBCL Project #: 202479.05
Approved:	Scale @ 11" x 17" : 1:3,500

Notes:
Different habitat types on Vardys and Pikes Islands





Legend

-  Shrub/Herbaceous habitat
 Rocky Shoreline Habitat



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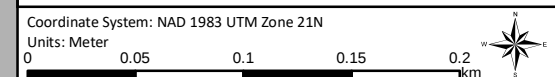
Figure 3.3: Main Habitat Types on Vardys and Pikes Islands

Drawn by: NH	Date: 2020-11-03
Checked:	CBCL Project #: 202479.05
Approved:	Scale @ 11" x 17" : 1:3,500

Notes:

Different habitat types on Vardys and Pikes Islands

Coordinate System: NAD 1983 UTM Zone 21N
Units: Meter



HF\DATA\4Data3\192479.45 VARDYS ISLAND ENVIRONMENT\1202479.05 MAPS\1202479.05 HABITAT TYPES ON VARDYS AND P IKES ISLANDS.mxd

3.3.1 Vardy's Island

Vardy's Island is a small island in the middle of Port aux Basques Harbour. Numerous marine navigation lights and associated structures are present on the island.

3.3.1.1 HERBACEOUS HABITAT

Herbaceous habitat was the primary habitat type on Vardy's Island, consisting of herbaceous species of varying heights. On Vardy's Island, the herbaceous habitat consisted of fireweed (*Chamerion angustifolium*), rough goldenrod (*Solidago rugosa*) and grasses such as Canada bluegrass (*Poa compressa*). Open patches dominated by low- growing grasses such as fescue (*Festuca* sp.) also occurred. Some taller species of herbaceous vegetation occurred within this general habitat, particularly in wetter areas. This habitat is very common and is typical of small coastal islands in the region, and could be utilized by a variety of species, particularly small mammals such as voles and mice, which could serve as food for predatory species such as raptors and owls or small carnivores. In October of 2019, what appeared to be mink scat was observed on Vardy's Island in a grassy area (see photo in Appendix B). This was also seen in July 2020. Gull trails were also noted to be common in this habitat in July 2020, as the gulls had likely been landing on the rocky shore and walking to their nests, rather than flying directly to them.

3.3.1.2 SHRUB HABITAT

Shrub habitat was also common on Vardy's Island, consisting of various shrub species of a range of heights. On Vardy's Island, the shrub habitat consisted primarily of somewhat stunted red raspberry (*Rubus idaeus*), interspersed with patches of very low growing shrub species in rockier areas, such as late lowbush blueberry (*Vaccinium angustifolium*), dogwoods (*Cornus* spp.), black chokeberry (*Aronia melanocarpa*), and black crowberry (*Empetrum nigrum*). Numerous herbaceous species were also noted intermixed with the shrubs. This habitat is very common and is typical of small coastal islands in the region, and could be utilized by a variety of species. Small mammal species such as mice and voles could use this habitat as shelter and a food source, and in turn act as a food source for various owl and raptor species. Predatory birds such as Snowy and Short-eared Owls, as well as Northern Harriers (*Circus cyaneus*), and Merlins (*Falco columbarius*) often hunt for small mammals in these habitats. Many bird species, especially songbirds, could also forage here for berries and insects.

3.3.1.3 ROCKY SHORE

The perimeter of Vardy's Island consists of rocky shore, mostly bedrock with some boulders and loose rock, extending to the intertidal zone. There is little terrestrial vegetation in this habitat, though lichens are common. Scavenging bird species such as gulls may forage for food sources tossed into onto the shore by wave action, and many species may rest here. Shorebirds and waterbirds may forage in the intertidal zone. Greater Yellowlegs were noted foraging in the intertidal zones on both Vardy's and Pikes Islands during the September 2020 migration surveys. Purple Sandpipers could also forage in this habitat.

No wildlife species or evidence of wildlife (other than avifauna) were observed in this habitat during the fall 2019 or winter 2020 surveys.

3.3.2 Pikes Island

Pikes Island is a small island in the eastern portion of Port aux Basques Harbour. It is connected to the mainland by a short causeway. A gravel trail extends over this causeway to the southern tip of the island, where a long breakwater terminating in a navigation light structure has been constructed. A line of power poles extends across the island to power the light. The remains of an old fishing dock are present.

No bird nests were observed on Pikes Island in 2020. Small rodent trails, likely created by voles, were noted throughout the island.

3.3.2.1 SHRUB HABITAT

A large portion of Pikes Island was covered in low shrub habitat. Shrubs tend to be much lower in height and/or stunted than those observed on Vardy's Island and raspberry was much less common on Pikes Island. Predominant species include ericaceous shrubs such as black crowberry, late lowbush blueberry, bog bilberry (*Vaccinium uliginosum*), bunchberry, and dogwood. Slightly taller shrub species include low stunted specimens of speckled alder (*Alnus incana*) and white spruce (*Picea glauca*). Black chokeberry and rock crowberry (*Empetrum nigrum*) were also noted on Pikes Island. Numerous herbaceous species also grew intermixed with the shrubs.

As for Vardy's Island, small mammals such as mice and voles could use this habitat on Pikes Island as shelter and a food source, and in turn act as a food source for various owl and raptor species. Various songbird species could also forage here for berries and insects, and some could nest in the shrubs.

3.3.2.2 HERBACEOUS HABITAT

Herbaceous habitat occurred in patches on Pikes Island. This habitat type consists of various herbaceous species of varying heights. On Pikes Island, common species within this habitat included Scots lovage, Fireweed, rough goldenrod, and Canada burnet (*Sanguisorba canadensis*). Sedges such as chaffy sedge (*Carex paleacea*) and shore sedge (*Carex lenticularis*) were abundant in lower wetter areas. Open patches dominated by low-growing grasses such as fescue (*Festuca* sp.) also occurred, particularly along the old trails. This habitat is very common and is typical of small coastal islands in the region. It could be utilized by a variety of species, particularly small mammals such as voles and mice, which could then serve as prey for predatory species such as raptors and owls or small carnivores.

3.3.2.3 ROCKY SHORE

The perimeter of Pikes Island consists of rocky shore, mostly bedrock with some boulders and loose rock, extending to the intertidal zone. A few small areas of cobble beach area present. The shore appears to have been built up with large rough boulders in some areas. A small causeway connecting the Island to the mainland is also present. The shoreline is generally less steep than on Vardy's Island and the shoreline vegetation communities are more developed than on Vardy's, particularly on the more sheltered western coast.

Scavenging bird species such as gulls may forage for food sources tossed into onto the shore by wave action, and many species may rest here. Shorebirds (including Purple Sandpiper) and waterbirds may forage in the intertidal zone.

3.4 Wildlife Observations

3.4.1 Vardy's Island

There is little habitat suitable for medium-sized to large mammal species, and no forest cover is present. No reptile or amphibian species are predicted to occur on Vardy's Island due to its small size and lack of suitable freshwater wetlands or waterbodies for amphibian reproduction.

An American mink (*Neovison vison*) was observed entering a burrow on the island in June 2020 during the breeding bird survey. Scat suspected to be mink had also been observed in previous surveys in 2019. Marine Atlantic staff also reported that mink were known to occur on the island (MAI employee, pers. comm. 2020). American mink are introduced to NL and are ranked by the NL CDC as SNA, Exotic.

A rodent, likely an invasive Norway rat (*Rattus norvegicus*), was observed on Vardy's Island during the fall 2019 bird survey. The Island also has a local reputation as containing a rat population (MAI employee, pers. comm. 2019). Evidence of small mammals, such as trails and holes, was abundant in this habitat in the fall of 2019, and was observed again during field surveys in 2020. Meadow voles (*Microtus pensylvanicus*) are likely present.

No other wildlife species or evidence of wildlife (other than avifauna and nests, which are discussed in Section 3.2) were observed in this habitat during the remainder of the 2019 and 2020 surveys.

3.4.2 Pikes Island

A few trails and burrows belonging to small mammals (likely voles) were noted on Pikes Island. On September 11, 2020, three female Northern Harriers were observed hunting over the low vegetation of Pikes Island. A Merlin was also observed harassing one of the Harriers.

3.5 Species of Conservation Concern (SoCC) and Species at Risk (SAR)

3.5.1 Species at Risk

No SAR were identified during any of the surveys in and around Port aux Basques Harbour. However, suitable habitat does exist on both Vardy's and Pikes Islands for the Short-eared Owl, which is listed as Vulnerable under the NL ESA and as Special Concern under the SARA, and was assessed by COSEWIC in 2021 as Threatened. This species has been observed within 40 km of the site, as per communication with the AC CDC, and several eBird observations have been recorded within this distance. Surveys targeting the Short-eared Owl were conducted in 2020, and none were observed.

A nest found on Vardy’s Island in 2019 was suspected of being a Short-eared Owl nest; however, surveys targeting this species were conducted in 2020 and none were found. The nest was thus assumed to be that of a large gull species, likely a Great Black-backed Gull, several pairs of which nested on Vardy’s Island in 2020. An overview of the Short-eared Owl, its ecology, and habitat preferences, is provided below.

3.5.1.1 SHORT-EARED OWL

The Short-eared Owl (*Asio flammeus*) is found primarily in coastal areas, grasslands, and other open habitats in Newfoundland and Labrador, but moves in response to changes in the abundance of small mammal prey species (COSEWIC, 2008). Short-eared Owls breed in a large number of open habitats including grasslands, arctic tundra, taiga, bogs, marshes, old pastures, and sand-sage (COSEWIC, 2008).

3.5.2 Species of Conservation Concern

Eight bird species of varying levels of conservation concern were detected during the surveys (Table 3.9). These are discussed in the following subsections. Two of these have secure breeding populations in NL, but their nonbreeding or migratory populations are considered to be of conservation concern. Common Grackle is listed as S5B, S3?N, SUM, meaning this species’ breeding population is considered Secure, the nonbreeding population is possibly Vulnerable, and the overall population is unrankable due to lack of information. Belted Kingfisher, is ranked as S4B, S3N, SUM in Newfoundland, meaning the breeding population is considered ‘Secure’ while the non-breeding population is ‘Vulnerable’ and the migratory population’s status is ‘Unknown’. As the breeding populations for both these species are ranked as ‘Secure’, or ‘Apparently Secure’, these species are not discussed as Species of Conservation Concern in this report, though locations of sightings are depicted on Figure 3.4.

Table 3.9: SoCC Observed During Avifauna Surveys for Project – 2019-2020

Functional Group	Species	Scientific Name	SAR A	NL ESA	NL S-Rank	Total
Kingfishers	Belted Kingfisher	<i>Megasceryle alcyon</i>	-	-	S4B, S3N,SUM	4
Landbirds	Common Grackle	<i>Quiscalus quiscula</i>	-	-	S4B,S3?N,SUM	2
	Chipping Sparrow	<i>Spizella passerina</i>	-	-	S2S3B,SUM	3
	Northern Harrier	<i>Circus cyaneus</i>	NAR	-	S3B, SUM	3
Seabirds	Northern Gannet	<i>Morus bassanus</i>	-	-	S2B	5
Gulls and Terns	Glaucous Gull	<i>Larus hyperboreus</i>	-	-	S3B, S3N	
Shorebirds	Greater Yellowlegs	<i>Tringa melanoleuca</i>	-	-	S3B, S4M	9
Waterbirds	Great Cormorant	<i>Phalacrocorax carbo</i>	-	-	S3B, S3N	7
Waterfowl	Bufflehead	<i>Bucephala albeola</i>	-	-	S1S2B,S1S2N,SUM	3

3.5.2.1 CHIPPING SPARROW (*SPIZELLA PASSERINA* - S2S3B, SUM)

The Chipping Sparrow is a small songbird which tends to breed in trees in wooded areas. Birds in the northern parts of the range fly south to overwinter in southern US and Mexico. The AC CDC ranks this species as S2S3B, SUM in Newfoundland, meaning the breeding population is considered imperilled to vulnerable, while the migratory population's status is unknown. Three individuals were observed on site in spring (Figure 3.4). They were not redetected during the breeding bird or fall migratory surveys, suggesting they were only present during a migratory stopover in spring.

3.5.2.2 NORTHERN HARRIER (*CIRCUS CYANEUS* - S3B, SUM)

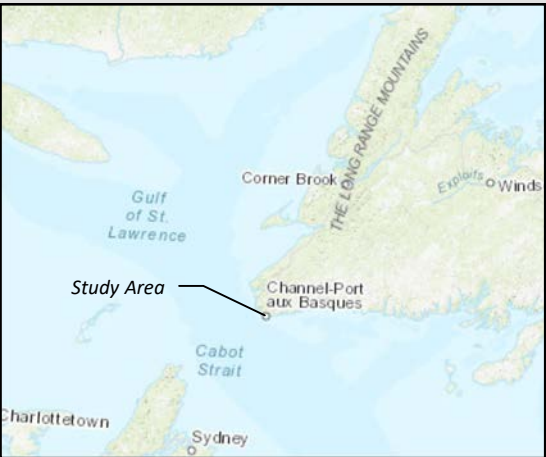
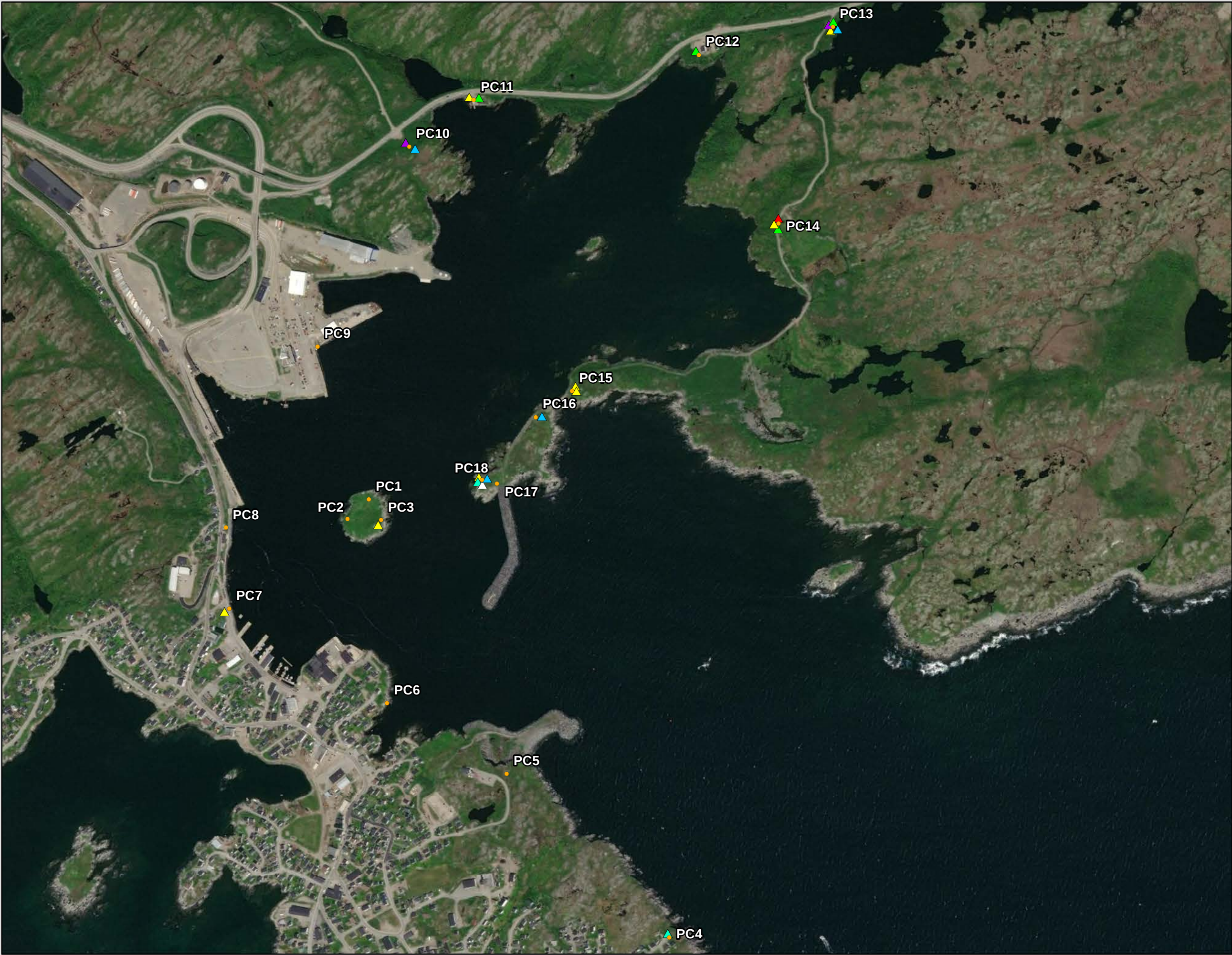
The Northern Harrier is a medium-sized raptor which occurs throughout most of Canada. Their nests are often found in wetlands which limits the access of predators (Simmons and Smith, 1985). They prefer open areas with dense low cover from wetlands, grasslands to brushy areas (Prescot, 1997) and are often seen foraging along coastal areas in eastern Canada. The AC CDC ranks the Northern Harrier in Newfoundland as S3B SUM meaning its breeding population is vulnerable and its migratory population is unknown. Three female Northern Harriers were observed on site in September 2020, hunting on Pikes Island. None were observed during any other surveys, suggesting that these three individuals were in the process of migrating south.

3.5.2.3 NORTHERN GANNET (*MORUS BASSANUS* - S2B)

The Northern Gannet is a large migratory seabird which occurs on both the eastern and western coasts of the Atlantic Ocean. They are colonial nesters, with most colonies occurring on offshore islands with cliffs. They feed primarily on fish, which they capture by plunge diving from great heights into the sea. The AC CDC ranks this species as S2Bin Newfoundland, meaning the breeding population is considered imperilled. A total of five Northern Gannets were observed in September 2020 from Survey Locations 4 and 18, near the mouth of Port aux Basques Harbour (Figure 3.4). These individuals were plunge-diving and feeding on fish within the Harbour.

3.5.2.4 GREATER YELLOWLEGS (*TRINGA MELANOLEUCA* - S3B, S4M)

The Greater Yellowlegs breeds primarily on the ground in the north in muskeg bogs and scrub spruce barrens, generally near water. They migrate south to the coasts of the United States and south to South America to overwinter (Stewart et al., 2015). They frequent ephemeral mudflats and shallow marshes during spring and fall migration, in search of small fish, insects, and invertebrates (Stewart et al., 2015). The AC CDC currently ranks the Greater Yellowlegs as S3B, S4M in Newfoundland, indicating a rank of vulnerable for the breeding population and apparently secure for the migratory population. Greater Yellowlegs were observed in Port Aux Basques Harbour in all seasons except winter, with the majority (7 of 10) detected during the early September field survey. Single individuals of Greater Yellowlegs were also observed during each of the Oct 2019, Winter 2020 and May 2020 surveys. Locations are depicted on Figure 3.4.



- Point Count Locations
- ▲ Belted Kingfisher (S3B,S3M,S3N)
- ▲ Bufflehead (S2N,SUM)
- ▲ Chipping Sparrow (S3B,S3M,S3N)
- ▲ Great Cormorant (S3B,S4M)
- ▲ Greater Yellowlegs (S3B,S4M)
- ▲ Northern Gannet (S3B, SUM)
- △ Northern Harrier (S2S3B, SUM)

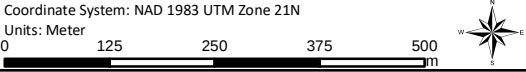


MARINE ATLANTIC INC.
Navigation Improvements Project
Port aux Basques, Newfoundland and Labrador

Figure 3.4: Locations of Fauna Species of Conservation Concern (SoCC)

Drawn by: NH	Date: 2020-11-03
Checked: BC	CBCL Project #: 202479.05
Approved:	Scale @ 11" x 17" : 1:9,000

Notes:
Species of Conservation Concern (SoCC) observed in study area.



3.5.2.5 GREAT CORMORANT (*PHALACROCORAX CARBO*- S3B, S3N)

The Great Cormorant is almost entirely a marine bird, feeding on fish and nesting in colonies on rocky ledges or cliffs in coastal areas (Hatch et al., 2000). Some migrate south to overwinter, while others remain, searching for ice-free water patches in the winter. The breeding, non-breeding, and year-round range of the Great Cormorant extends across the coastal regions of the Maritimes and the southern coast of NL. The AC CDC currently ranks the Great Cormorant as S3B, S3N in Newfoundland, indicating a rank of vulnerable for the breeding and non-migratory populations. A total of seven of Great Cormorants were detected within Port aux Basques Harbour, with the majority (6 of 7 individuals) detected during the winter surveys during the fall. Locations are depicted on Figure 3.4.

3.5.2.6 BUFFLEHEAD (*BUCEPHALA ALBEOLA* - S1S2B, S1S2N, SUM)

The Bufflehead is a migratory species which overwinters in sheltered coastal waters or open inland waters on both coasts of North America, where they feed on crustaceans and molluscs. They breed in freshwater ponds in boreal forests in central Canada and Alaska, often nesting in old northern flicker (*Colaptes auratus*) nesting cavities in trees. The AC CDC currently ranks the Bufflehead as S1S2B, S1S2N, SUM in Newfoundland, indicating a rank of imperiled to critically imperiled for the breeding and non-migratory populations, and unknown for the migratory population. A total of three Buffleheads were detected at survey location 14 during the spring survey. Locations are depicted on Figure 3.4.

3.5.2.7 GLAUCOUS GULL (*LARUS HYPERBOREUS* - S3B, S3N)

The Glaucous Gull is a high-Arctic species and migrates short to medium distances in the winter. They nest on cliffs, coastlines, and islands, either solitarily or in colonies of a few dozen pairs. Often, they will nest near seabird colonies, as they will hunt chicks and eat eggs. Glaucous Gulls are opportunistic omnivores, and will feed on anything from insects, lemmings, starfish, and fruit, to carrion and garbage. The AC CDC ranks the Glaucous Gull in Newfoundland as S3B, S3N, which indicates that breeding and non-migratory populations are vulnerable in the province. One Glaucous Gull was observed during the winter 2020 field surveys.

A total of 52 species and 1,524 individual birds were detected during surveys conducted by CBCL within the Study Area in 2019 and 2020. No SAR birds were detected during the bird surveys conducted around Port Aux Basques Harbour by CBCL in 2019 or 2020. A total of seven bird species considered to be SoCC were detected (excluding Belted Kingfisher and Common Grackle), these were:

- Chipping Sparrow
- Northern Harrier
- Northern Gannet
- Greater Yellowlegs
- Great Cormorant
- Bufflehead.

Habitat suitability for overwintering Purple Sandpipers along the eastern shore of Pikes Island and the perimeter of Vardy's Island appears to be moderate to low, due to the narrow intertidal zone in some portions and shoreline icing conditions in winter in the inner harbour.

No non-avian terrestrial fauna considered to be SAR or SoCC in NL were observed or are expected to occur.

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APPENDIX A

AC CDC Report



NL Data Request RQ1338: Pikes Island

Prepared Friday, May 15, 2026

by Adam Durocher, Data Manager

CONTENTS OF REPORT

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- 3.2. Significant Areas

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- 4.1. Rare Fauna
- 4.2. Rare Flora

5. Rare Species within 100 km

6. Expert Opinion

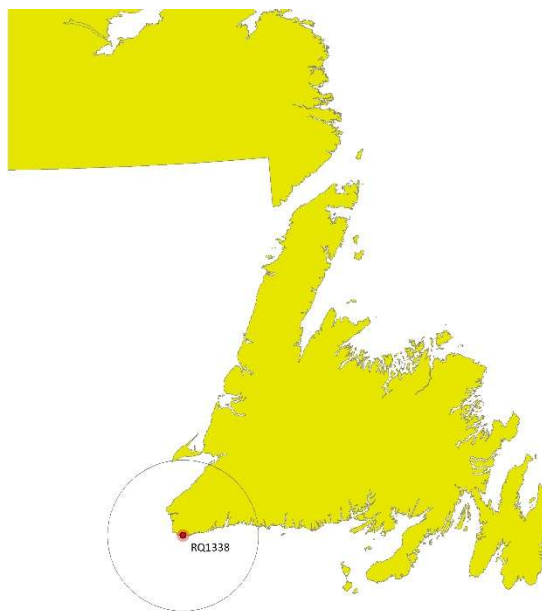


Figure 1: A 100km buffer around the point of interest.

1.0 Introduction

The Atlantic Canada Conservation Data Centre (AC CDC; www.accdc.com) is part of the network of NatureServe data centres and heritage programs serving all 50 states, 10 provinces and 3 Canadian territories, 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 Maritimes, as well as Newfoundland and Labrador. Although a non-governmental agency, the AC CDC is supported by six federal agencies and four 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 SUPPLEMENTAL FILES

Included datasets:

<u>Filename</u>	<u>Contents</u>
RareFlora.xlsx	a list of the rare flora records, including their SRANK, NRANK, GRANK and habitats.
RareFauna.xlsx	a list of rare fauna records, including their SRANK, NRANK, GRANK and habitats.
DataDictionary.doc	Definitions of the various columns in RareFlora.xlsx and RareFauna.xlsx.

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.
- h) Woodland Caribou observations and occurrences aren't retained in the ACCDC-NL database and will not appear in data request results. Questions about Woodland Caribou should be directed to the Wildlife Division.

1.3 ADDITIONAL INFORMATION

The accompanying Data Dictionary provides explanations of the fields in RareFauna.xls and RareFlora.xls.

2.0 SPECIES AT RISK (SAR) AND SPECIES OF CONSERVATION CONCERN

2.1 FLORA

The 5-kilometer search area around your point of interest contains 25 rare flora records. Of these 25 rare flora records, only Sharpleaf Aster (*Oclemena acuminata*) is listed provincially under the Endangered Species Act (ESA) as *Threatened*. The remaining rare flora records are for species not found on the provincial Endangered Species Act (ESA) or COSEWIC lists, but these species are considered rare for the Island of Newfoundland.

2.2 FAUNA

The study area contains 44 rare fauna records. Of these 44 rare fauna records, there is 1 Banded Killifish record (listed as *Special Concern* under COSEWIC and *Vulnerable* under our ESA), 4 Lesser Yellowlegs records (listed as *Threatened* under COSEWIC and our ESA), and 14 Piping Plover records (listed as *Endangered* under both COSEWIC and our ESA). The remaining rare fauna records are for species which are not provincially or nationally listed, but are considered rare on the Island of Newfoundland.

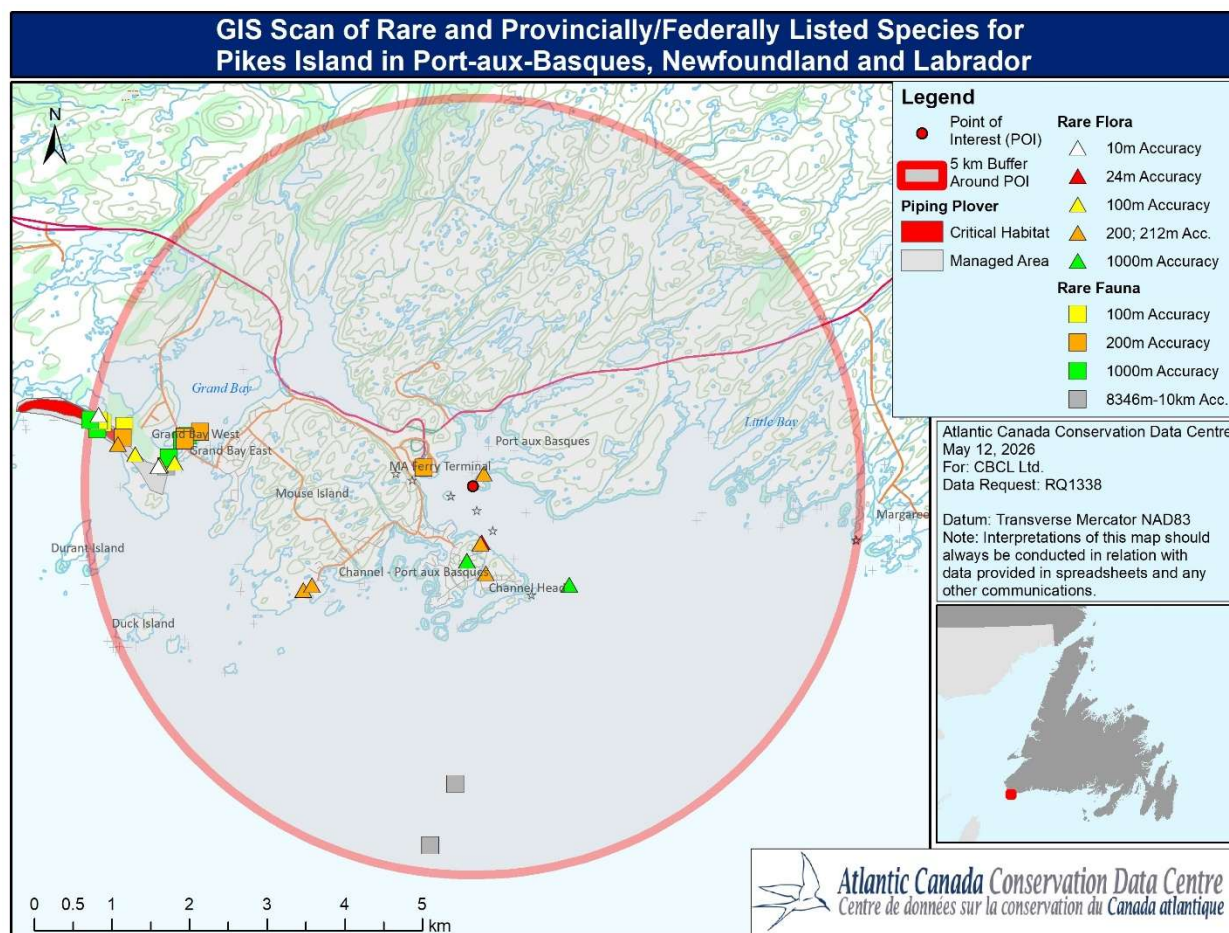


Figure 2: Known observations of rare and/or protected flora and fauna within the search area

3.0 SPECIAL AREAS

3.1 MANAGED AREAS

The GIS scan identified one managed area or sensitive wildlife area (Rocky Barachois Bight Piping Plover beach) in the vicinity of the five-km search area.

3.2 SIGNIFICANT AREAS

Significant Areas are sites with a conservation designation and management that qualifies them for listing in the Canadian Protected and Conserved Areas Database (CPCAD; <https://www.canada.ca/en/environment-climate-change/services/national-wildlife-areas/protected-conserved-areas-database.html>). The absence of a “Significant Area” within a site or region does not indicate an absence of ecologically significant properties. The GIS scan identified zero biologically significant sites in the vicinity of the study area (Map 3).

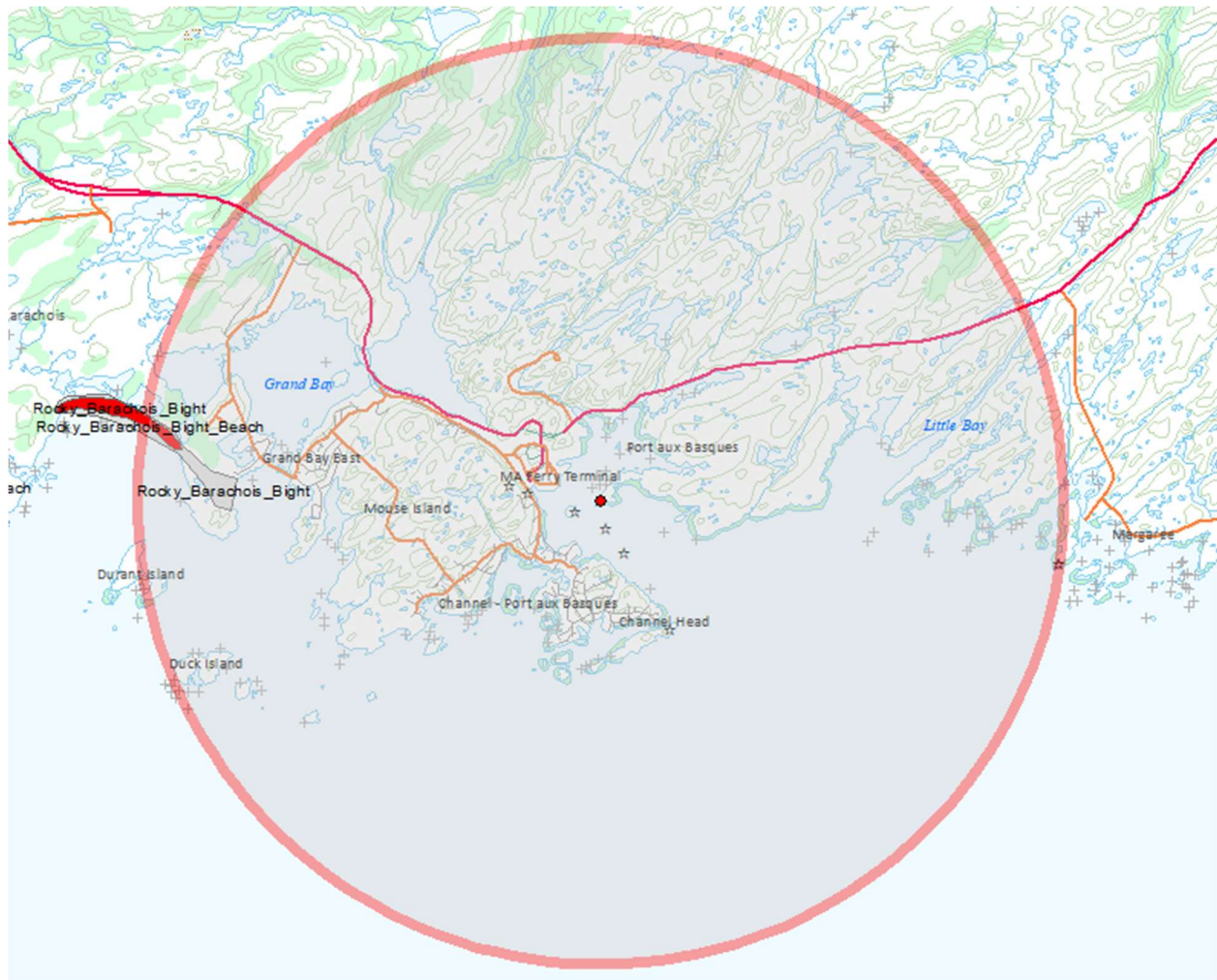


Figure 3: Boundaries and/or locations of known Managed and Significant Areas within the study area

4.0 RARE SPECIES LISTS

Rare and/or endangered taxa within the five-km search area are listed below.

4.1 Rare Fauna

GNAME	GCOMNAME	OBSERVERS	Month	Day	Year	RARITY RANK	COSEWIC_ST	PROVINCIAL
Fundulus diaphanus	Banded Killifish		0	0	2002	S3	Special Concern	Vulnerable
Pluvialis squatarola	Black-bellied Plover	inaturalist user: kblaney	7	30	2019	S3M		
Pluvialis squatarola	Black-bellied Plover	inaturalist user: fblb2003	9	23	2023	S3M		
Pluvialis squatarola	Black-bellied Plover	Terri Donovan	7	22	2024	S3M		
Tringa semipalmata	Eastern Willet	inaturalist user: paulreevesphotography	5	24	2016	S1B,SUM		
Tringa melanoleuca	Greater Yellowlegs	inaturalist user: fblb2003	9	23	2023	S3B,S4M		
Tringa melanoleuca	Greater Yellowlegs	Terri Donovan	7	22	2024	S3B,S4M		
Tringa melanoleuca	Greater Yellowlegs	Terri Donovan	7	24	2024	S3B,S4M		
Tringa melanoleuca	Greater Yellowlegs	Terri Donovan	7	26	2024	S3B,S4M		
Calidris minutilla	Least Sandpiper	inaturalist user: kblaney	7	30	2019	S3B,S4M		
Calidris minutilla	Least Sandpiper	Terri Donovan	7	24	2024	S3B,S4M		
Tringa flavipes	Lesser Yellowlegs	inaturalist user: kblaney	7	30	2019	S2S3M	Threatened	Threatened
Tringa flavipes	Lesser Yellowlegs	Terri Donovan	7	22	2024	S2S3M	Threatened	Threatened
Tringa flavipes	Lesser Yellowlegs	Terri Donovan	7	24	2024	S2S3M	Threatened	Threatened

Tringa flavipes	Lesser Yellowlegs	Terri Donovan	7	26	2024	S2S3M	Threatened	Threatened
Morus bassanus	Northern Gannet	inaturalist user: agmcml	8	11	2018	S2B		
Morus bassanus	Northern Gannet	inaturalist user: salmonskyview	6	21	2018	S2B		
Morus bassanus	Northern Gannet	inaturalist user: salmonskyview	6	21	2018	S2B		
Circus hudsonius	Northern Harrier	inaturalist user: kblaney	7	30	2019	S3B,SUM		
Charadrius melodus	Piping Plover	Douglas K. Gibbons	5	26	1998	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Todd Marshall	4	30	2004	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Todd Marshall	5	9	2004	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Jason Foster	8	9	2007	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Leah Soper, Mike Bennet, Paul Grenier	7	21	1999	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Joe Brazil	6	6	1992	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Eric Menchenton and Ed Anderson	7	18	1995	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Cathy Ryan	6	8	1994	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Cathy Ryan	7	2	1994	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Cathy Ryan	8	20	1994	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Cathy Ryan	6	8	1994	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Cathy Ryan	0		1994	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	LaFrense	6	12	1999	S1B,SUM	Endangered	Endangered
Charadrius melodus	Piping Plover	Blanchard, Kathleen, Billard, David, Wall, Russell and Bennett, Eric	7	29	2024	S1B,SUM	Endangered	Endangered
Charadrius semipalmatus	Semipalmated Plover	inaturalist user: kblaney	7	30	2019	S1B,S4M		

Charadrius semipalmatus	Semipalmated Plover	Terri Donovan	7	22	2024	S1B,S4M		
Charadrius semipalmatus	Semipalmated Plover	Terri Donovan	7	24	2024	S1B,S4M		
Charadrius semipalmatus	Semipalmated Plover	Terri Donovan	7	26	2024	S1B,S4M		
Calidris pusilla	Semipalmated Sandpiper	inaturalist user: kblaney	7	30	2019	S3M		
Calidris pusilla	Semipalmated Sandpiper	Terri Donovan	7	24	2024	S3M		
Limnodromus griseus	Short-billed Dowitcher	inaturalist user: kblaney	7	30	2019	S3M		
Limnodromus griseus	Short-billed Dowitcher	Terri Donovan	7	22	2024	S3M		
Limnodromus griseus	Short-billed Dowitcher	Terri Donovan	7	24	2024	S3M		
Limnodromus griseus	Short-billed Dowitcher	Terri Donovan	7	26	2024	S3M		
Calidris fuscicollis	White-rumped Sandpiper	Terri Donovan	7	26	2024	S3M		

4.2 Rare Flora

GNAME	GCOMNAME	OBSERVERS	Day	Month	Year	RARITY RANK	PROV END ACT	COSEWIC
Diapensia lapponica	Lapland Diapensia	iNaturalist user: icbryson	22	10	2019	S3S4		
Xanthoria parietina	Maritime Sunburst Lichen	iNaturalist user: icbryson	22	10	2019	S1S3		
Rusavskia elegans	Elegant Sunburst Lichen	iNaturalist user: breton	23	7	2020	S3S5		
Juncus gerardii	Black Grass	iNaturalist user: breton	24	7	2020	S2S3		
Rhinanthus minor	Little Yellow-Rattle	iNaturalist user: breton	23	7	2020	S3		

Utricularia geminiscapa	Twin-Stemmed Bladderwort	Fernald, M.L., B. Long, B. Dunbar	20	7	1924	S3		
Lycopodiella appressa	Southern Bog Club-Moss	Fernald, M.L., B. Long, B. Dunbar	21	7	1924	S2		
Catabrosa aquatica	Brook Grass	Fernald; Long; Dunbar	20	7	1924	S2S3		
Mitchella repens	Partridge-Berry	Fernald, M.L., B. Long, B. Dunbar	20	7	1924	S2S3		
Oclemena acuminata	Sharpleaf Aster	Fernald, M.L., B. Long, B. Dunbar	31	8	1924	S1	Threatened	
Huperzia selago	Fir Clubmoss	Djan-ChÃ©kar, N., Hanel, C. Lafosse, L. and Mann, H.	8	9	2000	S3S4		
Dryopteris cristata	Crested Wood Fern	Djan-ChÃ©kar, N., Hanel, C. Lafosse, L. and Mann, H.	8	9	2000	S3S4		
Calamagrostis breviligulata	American Beachgrass	Hanel, C. and Powell, S.	5	7	2000	S3S4		
Sagina nodosa ssp. nodosa	knotty pearlwort	Hanel, C. and Powell, S.	5	7	2000	S3S4		
Packera aurea	Golden Groundsel	Hanel, C. and Powell, S.	5	7	2000	S3S4		
Stellaria longipes ssp. longipes	longstalk starwort	Hanel, C. and Powell, S.	5	7	2000	S3		
Rhinanthus minor	Little Yellow-Rattle	Hanel, C. and Powell, S.	5	7	2000	S3		
Stuckenia pectinata	sago pondweed	Djan-ChÃ©kar, N., Hanel, C., Lafosse, L. and Mann, H.	8	9	2000	S2S3		
Lycopodium lagopus	One-Cone Gound-Pine	Maunder, John E.	23	7	1997	S2		
Pedicularis palustris ssp. palustris	Purple Lousewort	Maunder, John E.	23	7	1997	S3S4		
Andreaea rupestris	Black Rock Moss	Tuomikoski, R.	30	6	1949	S3S5		
Calamagrostis breviligulata	American Beachgrass	C. Hanel, J. E. Maunder and Wildflower Society members.	12	7	2007	S3S4		

Carex aurea	Golden-Fruited Sedge	C. Hanel, J. E. Maunder and Wildflower Society members.	12	7	2007	S3S4		
Rhinanthus minor	Little Yellow-Rattle	C. Hanel, J. E. Maunder and Wildflower Society members.	12	7	2007	S3		
Stellaria longipes	Long-Stalked Stitchwort	iNaturalist user: newfiehabsfan	18	7	2019	S3		

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the point of interest contains 1118 rare fauna records and 1230 rare flora records.

These are taxa within 100 km of the study site that are rare and/or endangered in the subnation (Island of Newfoundland or Labrador) in which the study site occurs. All ranks correspond to the subnation in which the study site falls. The ACCDC-NL databases and the Maritimes database are two separate entities and searches from Southwestern Newfoundland will not include Nova Scotia's St. Paul Island.

GNAME	GCOMNAME	Most Recent Year	Rarity Rank	COSEWIC STATUS	PROVINCIAL	# RECS:
Acanthis flammea	Common Redpoll	1987	S2S3B,S4N,SUM			2
Accipiter atricapillus	American Goshawk	2010	S3			2
Accipiter atricapillus	Northern Goshawk	2023	S3			3
Aegolius acadicus	Northern Saw-Whet Owl	2023	S3B			3
Agelaius phoeniceus	Red-winged Blackbird	2022	S1B,SUM			22
Alca torda	Razorbill	2023	S3B			4
Anas acuta	Northern Pintail	2022	S3B,SUM			13
Anas platyrhynchos	Mallard	2022	S3B,SUM			10
Anthus rubescens	American Pipit	2019	S3B,S4M			2
Archilochus colubris	Ruby-throated Hummingbird	2021	S1B,SUM			2
Ardea herodias	Great Blue Heron	2023	S2B,SUM			63
Arenaria interpres	Ruddy Turnstone	2019	S2S3M			5

Asio flammeus	Short-eared Owl	2016	S2S3B	Threatened	Threatened	15
Besma quercivoraria	Oak Besma Moth	2023	S3S5			1
Biston betularia	Peppered Moth	2010	S3S4			1
Bombus terricola	Yellow-banded Bumble Bee	2019	S3S4	Special Concern	Vulnerable	1
Bubo scandiacus	Snowy Owl	2002	S3N,SUM	Threatened		1
Bucephala albeola	Bufflehead	1987	S1S2B,S1S2N,SUM			1
Buteo lagopus	Rough-legged Hawk	2012	S2S3			2
Calidris alba	Sanderling	2020	S2N,S3M			5
Calidris canutus	Red Knot	2018	S2M	Endangered	Endangered	1
Calidris fuscicollis	White-rumped Sandpiper	2024	S3M			1
Calidris maritima	Purple Sandpiper	2022	S3N			1
Calidris minutilla	Least Sandpiper	2024	S3B,S4M			2
Calidris pusilla	Semipalmated Sandpiper	2024	S3M			5
Callophrys augustinus	Brown Elfin		S3			2
Calopteryx aequabilis	River Jewelwing	2022	S3			1
Cardellina canadensis	Canada Warbler	2008	SNA	Special Concern		2
Catharus fuscescens	Veery	2018	S2B,SUM			1
Catharus minimus	Gray-Cheeked Thrush	2016	S2B,SUM	Candidate (Mid Priority)	Threatened	7
Charadrius melodus	Piping Plover	2023	S1B,SUM	Endangered	Endangered	41
Charadrius melodus	Piping Plover melodus ssp	2013	S1B,SUM	Endangered	Endangered	2
Charadrius semipalmatus	Semipalmated Plover	2024	S1B,S4M			12
Charadrius vociferus	Killdeer	2018	S3B,SUM	Candidate (Low Priority)		3
Chordeiles minor	Common Nighthawk	2019	SNA	Special Concern	Vulnerable	3
Chroicocephalus ridibundus	Black-headed Gull	2010	S1B,S3N,SUM			1
Circus hudsonius	Northern Harrier	2021	S3B,SUM			19

Coccothraustes vespertinus	Evening Grosbeak	2019	S3S4	Special Concern	Vulnerable	3
Contopus cooperi	Olive-sided Flycatcher	2020	S3B,SUM	Special Concern	Vulnerable	52
Dolichonyx oryzivorus	Bobolink	2020	S1B,SUM	Threatened	Vulnerable	91
Empidonax minimus	Least Flycatcher	2022	S2S3B,SUM	Candidate (Group 3, Low Priority)		24
Eremophila alpestris	Horned Lark	1987	S3B,SUM			1
Euphagus carolinus	Rusty Blackbird	2024	S2S3B,SUM	Special Concern	Vulnerable	9
Fulmarus glacialis	Northern Fulmar	2022	S1B			7
Fundulus diaphanus	Banded Killifish	2007	S3	Special Concern	Vulnerable	5
Fundulus heteroclitus	Mummichog	2006	S3		Vulnerable	7
Hirundo rustica	Barn Swallow	2021	S2B,SUM	Special Concern	Vulnerable	16
Histrionicus histrionicus	Harlequin Duck	2023	S2B,S2N	Special Concern	Vulnerable	8
Hydrobates leucorhous	Leach's Storm-Petrel	2018	S4B	Threatened	Threatened	3
Hydroprogne caspia	Caspian Tern	2011	S2B,SUM			1
Lagopus muta	Rock ptarmigan	2019	S3			2
Larus fuscus	Lesser Black-backed Gull	2021	S3N,SUM			2
Lepus arcticus	Arctic Hare	2010	S2S3			3
Leucorrhinia glacialis	Crimson-ringed Whiteface/ Common Skimmer		S3S4			1
Limnodromus griseus	Short-billed Dowitcher	2024	S3M			6
Loxia curvirostra	Red Crossbill	2005	S1S2	Threatened	Threatened	9
Lynx canadensis	Canada Lynx	2023	S3S4			1
Mareca americana	American Wigeon	2022	S3B,SUM			75

Megaceryle alcyon	Belted Kingfisher	2019	S4B,S3N,SUM	Candidate (Group 3, Low Priority)		22
Melanitta americana	Black Scoter	2017	S2B,S2N,SUM			1
Morus bassanus	Northern Gannet	2023	S2B			33
Myotis lucifugus	Little Brown Bat		S1S3	Endangered	Endangered	2
Myotis septentrionalis	Northern Long-eared Bat		S1S3	Endangered	Endangered	1
Numenius phaeopus	Whimbrel	2019	S2S3M			1
Phalacrocorax carbo	Great Cormorant	2023	S3B,S3N			13
Phalaropus lobatus	Red-necked Phalarope	2008		Special Concern	Vulnerable	1
Picoides dorsalis	American Three-toed Woodpecker	2012	S3S4			1
Plectrophenax nivalis	Snow Bunting	1987	S2N,S5M			1
Pluvialis squatarola	Black-bellied Plover	2024	S3M			13
Podilymbus podiceps	Pied-billed Grebe	2021	S1B,SUM			12
Polites peckius	Peck's Skipper		S3			2
Polygonia progne	Gray Comma		S3			2
Polygonia satyrus	Satyr Comma		S3			1
Porzana carolina	Sora	2020	S2B,SUM			1
Puffinus puffinus	Manx Shearwater	2023	S1B			1
Pungitius pungitius	Ninespine Stickleback	1966	S3			1
Quiscalus quiscula	Common Grackle	2019	S4B,S3?N,SUM			77
Rangifer tarandus	Caribou	2011	S3S4	Special Concern (NF Population)	Threatened (Labrador Population)	1
Riparia riparia	Bank Swallow	2024	S1S2B,SUM	Threatened	Threatened	61
Scolopax minor	American Woodcock	2023	S1B,SUM			1
Seiurus aurocapilla	Ovenbird	2022	S3B,SUM			63
Setophaga americana	Northern Parula	2022	S1B?,SUM			9
Setophaga castanea	Bay-breasted Warbler	2022	S2B,SUM			5

Setophaga fusca	Blackburnian Warbler	2022	S2B,SUM			5
Setophaga tigrina	Cape May Warbler	2022	S2B,SUM			10
Somatochlora septentrionalis	Muskeg Emerald/ Green Eyed Skimmer	1949	S3S4			1
Somatochlora walshii	Brush-tipped Emerald	2009	S3S4			2
Sphyrapicus varius	Yellow-bellied Sapsucker	2020	S2B,SUM			1
Spizella passerina	Chipping Sparrow	2019	S2S3B,SUM			18
Spizelloides arborea	American Tree Sparrow	1987	S3B,SUM			2
Surnia ulula	Northern Hawk-Owl	2002	S3			1
Tringa flavipes	Lesser Yellowlegs	2024	S2S3M	Threatened	Threatened	8
Tringa melanoleuca	Greater Yellowlegs	2024	S3B,S4M			23
Tringa semipalmata	Eastern Willet	2016	S1B,SUM			1
Tringa semipalmata	Willet	2022	S1B,SUM			1
Troglodytes hiemalis	Winter Wren	2018	S3B,SUM			22
Vanessa virginiensis	American Lady		S3B,SUM			1
Vireo olivaceus	Red-eyed Vireo	2022	S3S4B,SUM			35
Vireo philadelphicus	Philadelphia Vireo	2020	S3B,SUM			9
Vireo solitarius	Blue-headed Vireo	2023	S3S4B, SUM			33
Zenaida macroura	Mourning Dove	2022	S3			31

GNAME	GCOMNAME	Most Recent Occurrence	RARITY RANK	COSEWIC	PROV_END_A	# RECS
Acorus americanus	Sweet Flag	1961	S1			1
Agrimonia striata	Woodland Agrimony	2024	S3			21
Agrostis perennans	Perennial Bentgrass	2000	S2			2
Alchemilla filicaulis ssp. filicaulis	thinstem lady's mantle	2000	S3			1
Allium schoenoprasum	Chives	2021	S2S3			1
Andreaea rothii	Dusky Rock Moss	1978	S3S4			1
Andreaea rupestris	Black Rock Moss	1981	S3S5			5
Antennaria howellii	Small Pussy-Toes	2000	S3S4			3
Antennaria pulcherrima	Handsome Pussy-Toes	2000	S3			6

Antennaria rosea ssp. pulvinata	pulvinate pussytoes	1922	S3S4		1
Apocynum androsaemifolium	Spreading Dogbane	2020	S3		1
Apocynum cannabinum	Clasping-Leaf Dogbane	2023	S3		35
Arceuthobium pusillum	Dwarf Mistletoe	1986	S3		2
Arnica angustifolia	Alpine Arnica	1922	S3		1
Arnica lonchophylla	Northern Arnica	2000	S3S4		1
Aronia melanocarpa	black chokeberry	2001	S2S4		1
Astragalus alpinus var. brunetianus	Alpine Milk-Vetch	1867	S2S3		1
Bartonia paniculata	Twining Bartonia	2002	S3S4		4
Bartonia virginica	Yellow Screwstem	2007	S1		3
Betula alleghaniensis	Yellow Birch	2022	S3		18
Blysmopsis rufa	red clubrush	2000	S3		3
Bolboschoenus maritimus ssp. paludosus	saltmarsh bulrush	2000	S2		3
Botrychium matricariifolium	Chamomile Grape-Fern	2020	S2S3		2
Botrychium simplex	Little Grapefern	1997	S2		2
Brachyelytrum aristosum	Northern Shorthusk	2013	S3S4		7
Bryoria fuscescens	Pale-footed Horsehair Lichen	2021	S3S5		1
Calamagrostis breviligulata	American Beachgrass	2023	S3S4		11
Calamagrostis canadensis var. canadensis	Blue-Joint Reedgrass	2011	S3S5		4
Calypso bulbosa var. americana	Fairy Slipper	1997	S1		1
Carex atratiformis	Black Sedge	2000	S3S4		1
Carex aurea	Golden-Fruited Sedge	2021	S3S4		6
Carex concinna	Beautiful Sedge	1922	S2		1
Carex diandra	Lesser Panicked Sedge	2000	S3S4		1
Carex eburnea	Ebony Sedge	2000	S3		2
Carex glacialis	Alpine Sedge	1922	S3		1
Carex glareosa	Gravel Sedge	2000	S3		1
Carex gracillima	Graceful Sedge	2013	S3S4		11
Carex gynocrates	Northern Bog Sedge	2012	S3S4		1
Carex hormathodes	Marsh Straw Sedge	2000	S3		9

Carex hostiana	Host's Sedge	1939	S2			1
Carex interior	Inland Sedge	2011	S3S4			2
Carex novae-angliae	New England Sedge	2000	S2S3			10
Carex pallescens	Pale Sedge	2017	S3			6
Carex pedunculata	Longstalk Sedge	2010	S3			10
Carex petricosa var. misandroides	Rock Dwelling Sedge	1922	S1		Endangered	1
Carex projecta	Necklace Sedge	2013	S3			29
Carex pseudocyperus	Cyperus-Like Sedge	2021	S2			35
Carex radiata	Stellate Sedge	1867	S1			1
Carex rariflora	Loose-Flowered Sedge	2000	S3			1
Carex retrorsa	Retorse Sedge	2013	S1			1
Carex rupestris	Rock Sedge	2000	S3			1
Carex salina	Salt-Marsh Sedge	2000	S3			1
Carex silicea	Sea-Beach Sedge	2000	S2			1
Carex sterilis	Dioecious Sedge	2000	S2S3			1
Carex vaginata	Sheathed Sedge	2000	S3S4			1
Carex viridula ssp. brachyrrhyncha var. elatior	long-stalked yellow sedge	1999	S3S4			1
Carex wiegandii	Wiegand's Sedge	2007	S3			2
Catabrosa aquatica	Brook Grass	1924	S2S3			1
Cerastium beeringianum	Bering Sea Chickweed	1922	S3			1
Cetraria muricata	Spiny Heath Lichen	2009	S3S5			2
Cicuta bulbifera	Bulb-Bearing Water-Hemlock	2000	S3			2
Cladonia amaurocraea	Quill Lichen	2018	S3S5			4
Cladonia caespiticia	Stubby Stalked Lichen	2021	S3			1
Claytonia caroliniana	Carolina Spring-Beauty	2016	S2			1
Clinopodium vulgare	Field Basil	2016	S3			3
Coeloglossum viride	Long-Bract Green Orchid	2000	S3S4			2
Collema subflaccidum	Tree Tarpaper Lichen	2008	S3S4			5
Cornus alternifolia	Alternate-Leaf Dogwood	2024	S3S4			18
Crataegus chrysocarpa	Fineberry Hawthorn	2012	S2			1

Crataegus chrysocarpa var. chrysocarpa	Fineberry Hawthorne	2001	S2			8
Crataegus macrosperma	Big-Fruit Hawthorn	1959	S1			1
Cypripedium reginae	Showy Lady's-Slipper	2014	S3			2
Cystopteris bulbifera	Bulblet Bladder Fern	1922	S2S3			1
Cystopteris laurentiana	Laurentian Bladder Fern	1949	S2			2
Deschampsia cespitosa	Tufted Hairgrass	2016	S3S5			5
Diapensia lapponica	Lapland Diapensia	2019	S3S4			4
Dicranum leioneuron	Variableleaf Broom Moss	2000	S3S4			1
Diervilla lonicera	Northern Bush-honeysuckle	2012	S3S4			3
Diphasiastrum complanatum	northern running-pine, groundcedar	2000	S3S4			1
Diphasiastrum sitchense	Sitka clubmoss, tufted groundcedar	2020	S3S4			3
Drosera anglica	English Sundew	1997	S3			1
Dryopteris cristata	Crested Wood Fern	2009	S3S4			3
Dulichium arundinaceum	Three-Way Sedge	2010	S3S4			2
Eleocharis acicularis	Least Spike-Rush	2000	S3S4			6
Eleocharis elliptica	Slender Spike-Rush	2000	S3S4			5
Eleocharis parvula	Small Spikerush	2000	S3S4			4
Eleocharis quinqueflora	Few-Flower Spikerush	2000	S3S4			7
Elymus virginicus var. virginicus	Virginia Wild Rye	2000	S3S4			4
Empetrum atropurpureum	Purple Crowberry	1997	S3S4			1
Epigaea repens	Trailing Arbutus	2021	S3S4			7
Epilobium lactiflorum	White-Flower Willow-Herb	2012	S3			2
Epilobium leptophyllum	Linear-Leaved Willow-Herb	2012	S3			4
Equisetum hyemale	Rough Horsetail	2013	S1			4
Equisetum hyemale ssp. affine	tall scouring rush	2010	S1			4
Equisetum palustre	Marsh Horsetail	2013	S3S4			13
Equisetum pratense	Meadow Horsetail	2020	S3			4
Equisetum variegatum	Variegated Horsetail	2012	S3			1
Equisetum variegatum ssp. variegatum	variegated scouring rush	2000	S3			1

Eriophorum tenellum	Rough Cotton-Grass	2000	S3S4			1
Evernia mesomorpha	Boreal Oakmoss Lichen	2021	S3S4			2
Festuca altaica	Northern Rough Fescue	1939	S2			1
Festuca rubra	Red Fescue	2001	S2S3			20
Galium kamtschaticum	Boreal Bedstraw	1949	S3S4			3
Galium tinctorium	Stiff Marsh Bedstraw	2000	S3S4			3
Gaylussacia baccata	Black Huckleberry	2000	S3			1
Gaylussacia bigeloviana	Dwarf Huckleberry	2007	S3S4			3
Gentianopsis detonsa	Sheared Gentian	2022	S3			1
Glyceria grandis	American Mannagrass	2013	S2S3			1
Hedysarum americanum	Alpine Sweet-Vetch	2016	S3			5
Hedysarum boreale	Boreal Sweet-vetch	2021	S1			2
Hedysarum boreale ssp. mackenziei	Mackenzie's Sweetvetch	2021	S1		Threatened	35
Hordeum jubatum ssp. jubatum	foxtail barley, squirreltail grass	2000	S2S3			3
Hudsonia ericoides	Golden-Heather	2007	S2S3	Candidate (Priority 3)		7
Humulus lupulus var. lupuloides	American Hop	2021	S1			3
Huperzia selago	Fir Clubmoss	2000	S3S4			1
Hydrocotyle americana	American Water-Pennywort	2020	S1			4
Hypericum ellipticum	Pale St. John's-Wort	19721974	S3			29
Impatiens pallida	Pale Jewel-Weed	1949	S1			3
Juncus alpinoarticulatus	Northern Green Rush	2000	S3S4			4
Juncus dudleyi	Dudley's Rush	2000	S2			5
Juncus gerardii	Black Grass	2020	S2S3			1
Juncus longistylis	Long-styled Rush	2013	S1			28
Juncus nodosus	Knotted Rush	2010	S2			13
Juncus subcaudatus	Woods-Rush	2000	S1			4
Leptogium cyanescens	Blue Jellyskin	2021	S3S4			1
Limonium carolinianum	Sea-Lavender	2000	S2S3			4
Littorella americana	American Shore-grass	2000	S3S4			1
Lobelia kalmii	Kalm's Lobelia	2014	S3S4			3

Luzula acuminata	Pointed Woodrush	2023	S1			3
Luzula acuminata ssp. acuminata	hairy woodrush	2008	S1			4
Lycopodiella appressa	Southern Bog Club-Moss	1989	S2			3
Lycopodium lagopus	One-Cone Gound-Pine	1997	S2			1
Lycopus americanus	American Bugleweed	2010	S3			2
Maianthemum racemosum	Feathery False Solomon's Seal	2024	S1		Endangered	96
Maianthemum racemosum ssp. racemosum	Feathery False Solomon's Seal	2002	S1		Endangered	9
Malaxis monophyllos var. brachypoda	white addersmouth, Northern white addersmouth	2000	S3			2
Malaxis unifolia	Green Adder's-Mouth	2013	S3			11
Matteuccia struthiopteris	Ostrich Fern	2021	S3S4			1
Matteuccia struthiopteris var. pennsylvanica	Ostrich Fern	2023	S3S4			8
Melampyrum lineare	American Cow-Wheat	2011	S3S4			3
Milium effusum var. cisatlanticum	Tall Millet-Grass	1964	S2S3			2
Mitchella repens	Partridge-Berry	2019	S2S3			20
Mononeuria groenlandica	Mountain Sandwort	1989	S2			2
Morella pensylvanica	Northern Bayberry	2018	S2			3
Muhlenbergia uniflora	Fall Dropseed Muhly	2002	S3S4			2
Myriophyllum farwellii	Farwell's Water-Milfoil	2000	S1S2			1
Myriophyllum verticillatum	Whorled Water-Milfoil	2000	S2S3			1
Najas flexilis	Bushy Naiad	1930	S2			1
Neottia auriculata	Auricled Twayblade	1939	S2			2
Neottia convallarioides	Broad-lip Twayblade	2024	S3S4			2
Nephroma laevigatum	Mustard Kidney Lichen	2021	S3S4			3
Nymphaea odorata ssp. odorata	fragrant waterlily, water nymph	2000	S3			1
Oclemena acuminata	Sharpleaf Aster	2021	S1		Threatened	23
Omalotheca sylvatica	Woodland Cudweed	2000	S3S4			1
Osmorhiza depauperata	Blunt-Fruited Sweet-Cicely	1939	S3			1
Oxalis montana	White Wood-Sorrel	1989	S1S2			3

Oxyria digyna	Mountain Sorrel	2012	S2S3			5
Oxytropis campestris	Northern Yellow Point-Vetch	2016	S3			4
Oxytropis campestris var. johannensis	St. John's Oxytrope	2021	S1S3			2
Oxytropis campestris var. minor	St John's Oxytrope	2000	S3			3
Packera aurea	Golden Groundsel	2016	S3S4			2
Pannaria lurida	Wrinkled Shingle Lichen	2016	S1	Threatened	Threatened	3
Pannaria rubiginosa	Brown-eyed Shingle Lichen	2021	S3			1
Parmeliella triptophylla	Black-bordered Shingles Lichen	2024	S3S4			15
Parmeliopsis ambigua	Green Starburst Lichen	2021	S3S5			1
Parnassia palustris	Marsh Grass-Of-Parnassus	2000	S2S3			4
Pedicularis palustris ssp. palustris	Purple Lousewort	2013	S3S4			2
Petasites frigidus var. palmatus	Sweet Coltsfoot	2000	S3S4			1
Physaria arctica	Arctic Bladderpod	2000	S3			5
Pinus resinosa	Red Pine	2019	S2		Threatened	1
Piptatheropsis canadensis	Canada Mountain-ricegrass	1939	S2			1
Platanthera grandiflora	Large Purple-Fringed Orchid	2018	S3			36
Platanthera lacera	Ragged-Fringed Orchid	2011	S3S4			4
Platanthera orbiculata	Large Roundleaf Orchid	2007	S3S4			1
Platismatia norvegica	Oldgrowth Rag Lichen	2021	S3S5			3
Poa pratensis	Kentucky Bluegrass	2016	S3			8
Poa saltuensis	Drooping Bluegrass	2000	S3S4			2
Polygonum fowleri ssp. hudsonianum	Hudson's knotweed	1976	S2S3			1
Polygonum oxyspermum ssp. raii	Ray's knotweed	1978	S2			1
Polystichum braunii	Braun's Holly-Fern	2016	S3S4			6
Potamogeton alpinus	Northern Pondweed	2000	S3S4			1
Potamogeton confervoides	Algae-Like Pondweed	2011	S3S4			1
Potamogeton pusillus ssp. tenuissimus	Berchtold's pondweed, slender pondweed	2000	S3S4			1

Potentilla crantzii	Crantz's Cinquefoil	1922	S2S3			2
Primula egaliksensis	Greenland Primrose	2022	S3			1
Prunella vulgaris	Self-Heal	2024	S3S5			20
Pseudocyphellaria holarctica	Holarctic Lung Lichen	2021	S2S3			1
Pycnothelia papillaria	Nipple Lichen	2018	S2S3			1
Pyrola elliptica	Shinleaf	2013	S2S3			1
Ramalina dilacerata	Punctured Ramalina Lichen	2021	S1S3			4
Ramalina farinacea	Dotted Line Lichen	2007	S3			1
Ramalina thrausta	Angelhair Ramalina Lichen	2021	S2S3			1
Ranunculus gmelinii	Gmelin's Watercrowfoot	2024	S1		Endangered	30
Ranunculus macounii	Macoun Buttercup	1922	S2S3			1
Ranunculus recurvatus	Hooked Crowfoot	1949	S1S2			1
Rhinanthus minor	Little Yellow-Rattle	2021	S3			13
Rhynchospora fusca	Brown Beakrush	2011	S3S4			2
Ricasolia quercizans	Smooth Lungwort	2024	S3S4			9
Rusavskia elegans	Elegant Sunburst Lichen	2020	S3S5			1
Sabulina dawsonensis	Rock Stitchwort	2014	S2S3			2
Sagina nodosa ssp. borealis	northern knotty pearlwort	2012	S3S4			2
Sagina nodosa ssp. nodosa	knotty pearlwort	2000	S3S4			2
Sagittaria graminea	Grassleaf Arrowhead	2000	S3S4			3
Salix argyrocarpa	Northern Willow	2011	S1S2			1
Salix calcicola	Lanate Willow	2000	S3S4			1
Salix eriocephala	Heart-Leaved Willow	2012	S3			13
Salix myricoides	Blue-Leaved Willow	2000	S3S4			7
Sanicula marilandica	Black Snake-Root	2013	S3S4			8
Saxifraga oppositifolia	Purple Mountain Saxifrage	2022	S3S4			2
Saxifraga oppositifolia ssp. oppositifolia	purple mountain saxifrage	2000	S3S4			1
Sceptridium multifidum	Leathery Grapefern	2000	S3			4
Scheuchzeria palustris	Pod Grass	2011	S3S4			1
Schizachne purpurascens	Purple Oat	1997	S3			1
Schizaea pusilla	Curly-Grass Fern	2013	S3S4			7

Schoenoplectus acutus var. acutus	Hard-Stemmed Bulrush	2012	S3			5
Schoenoplectus pungens	Three-Square Bulrush	2016	S3			8
Schoenoplectus tabernaemontani	Soft-Stem Bulrush	2024	S2			10
Scirpus cyperinus	Cottongrass Bulrush	2013	S3S4			7
Scirpus hattorianus	Bulrush	2000	S3S4			1
Scutellaria lateriflora	Mad Dog Skullcap	2024	S3			10
Senecio pseudoarnica	Seabeach Groundsel	2021	S3S4			2
Sium suave	Hemlock Water-parsnip	2000	S3S4			1
Solidago brendae	Brenda's Goldenrod	2017	S3			1
Solidago multiradiata	Alpine Goldenrod	2012	S3S4			1
Sparganium fluctuans	Floating Bur-Reed	2012	S2S3			6
Sparganium natans	Small Bur-Reed	2000	S3S4			4
Sphaerophorus fragilis	Fragile Coral Lichen	2011	S3S5			3
Sphaerophorus globosus	Northern Coral Lichen	2011	S3S5			2
Sporobolus alterniflorus	Saltwater Cordgrass	2000	S2			2
Stellaria alsine	Trailing Stitchwort	2000	S3S4			1
Stellaria longipes	Long-Stalked Stitchwort	2019	S3			1
Stellaria longipes ssp. longipes	longstalk starwort	2000	S3			1
Stuckenia pectinata	sago pondweed	2000	S2S3			2
Suaeda calceoliformis	American Sea-Blite	2000	S1S2			2
Symphyotrichum ciliolatum	Lindley's Aster	1930	S2		Endangered	2
Symphyotrichum lanceolatum	White Panicked American-Aster	2016	S2			1
Symphyotrichum lanceolatum var. lanceolatum	Panicked Aster	2000	S2			8
Symphyotrichum tradescantii	Tradescant Aster	2013	S1		Threatened	2
Tanacetum bipinnatum	dwarf tansy, Lake huron tansy	2021	S3			1
Tanacetum bipinnatum ssp. huronense	Newfoundland dwarf tansy, Lake Huron tansy, dune tansy	2021	S3			4
Taraxacum latilobum	Large-lobed Dandelion	1990	S3			4
Taxus canadensis	Canadian Yew	2022	S3S4			5
Thamnia vermicularis	Alpine Whiteworm Lichen	2011	S3S5			1

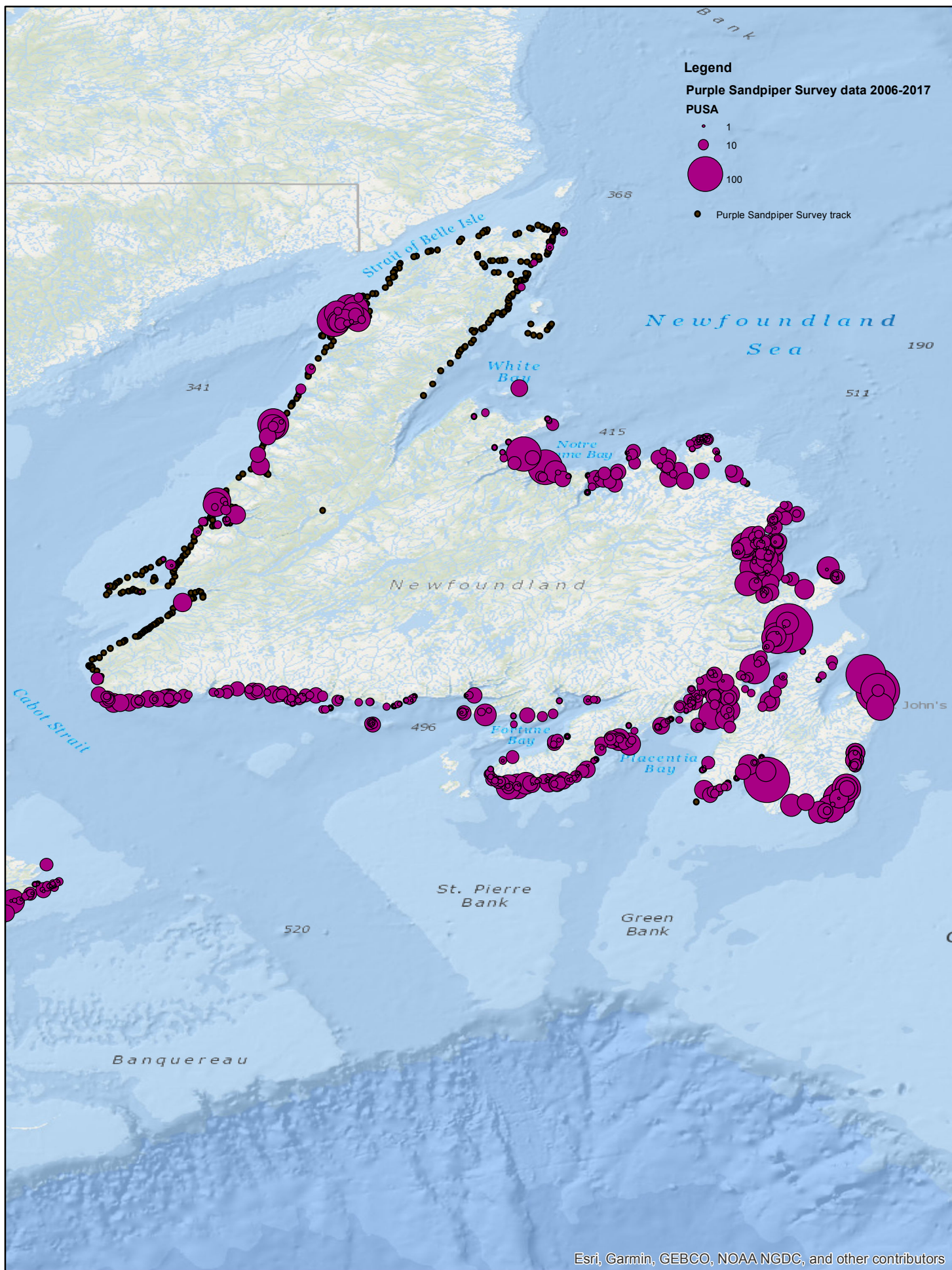
Triglochin gaspensis	GaspT Peninsula Arrow-Grass	2000	S3			1
Urtica dioica ssp. gracilis	slender stinging nettle	2012	S3S5			1
Usnea dasopoga	Fishbone Beard Lichen	2021	S3S4			4
Utricularia geminiscapa	Twin-Stemmed Bladderwort	2000	S3			5
Valeriana dioica ssp. sylvatica	northern vlaerian, march valerian	1922	S3			1
Veronica serpyllifolia	Thyme-Leaved Speedwell	2021	S3S4			4
Veronica serpyllifolia ssp. humifusa	northern speedwell	1986	S3S4			6
Viola nephrophylla	Northern Bog Violet	2010	S3			3
Viola selkirkii	Great-Spurred Violet	1922	S2			1
Viscaria alpina	Alpine Campion	2012	S3			1
Vulpicida pinastri	Powdered Sunshine Lichen	2021	S3S5			4
Woodsia glabella	Smooth Woodsia	1922	S3			1
Xanthoria parietina	Maritime Sunburst Lichen	2019	S1S3			1
Xyris montana	Northern Yellow-Eyed-Grass	2002	S3			2
Zannichellia palustris	Horned Pondweed	2000	S2S3			7
Zostera marina	Sea-Wrack	2000	S3S4			1

6.0 EXPERT OPINION

Our Expert Opinion Maps are the result of our work with species-specific experts to gather suggestions about locations where species at risk - either provincially or COSEWIC listed - may be found. While we don't have observations in our database for these species within 5 km of your site, our Expert Opinion Maps suggest Boreal Felt Lichen, Red Crossbills, and Rusty Blackbirds are *possible* within 5km of your point of interest, while Newfoundland Marten are considered *possible, but unlikely*. Also, the oceanic waters within 5km of your point of interest are within the Barrow's Goldeneye's range.

APPENDIX B

Purple Sandpiper Sightings Observed by CWS



APPENDIX C

Fauna Species Reported by eBird and iNaturalist

Table C.1 Fauna species reported in Port aux Basques area by eBird and/or iNaturalist

Common Name	Scientific Name	SARA	NL ESA	NL S-Rank	Source of Record	Total
Amphibians						
Green Frog	<i>Rana clamitans</i>	-	-	SNA	iNaturalist	1*
Birds						
Alder Flycatcher	<i>Empidonax alnorum</i>	-	-	S4B,SUM	eBird - PAB	1
American Black Duck	<i>Anas rubripes</i>	-	-	S4	eBird - PAB	45
					iNaturalist	1*
American Crow	<i>Corvus brachyrhynchos</i>	-	-	S5	eBird - PAB	5
American Goldfinch	<i>Carduelis tristis</i>	-	-	S5	eBird - PAB	1
American Pipit	<i>Anthus rubescens</i>	-	-	S3B, S4M	eBird - PAB	2
American Robin	<i>Turdus migratorius</i>	-	-	S5B,S5M	eBird - PAB	20
					EBird- Ferry	1*
American Tree Sparrow	<i>Spizella arborea</i>	-	-	S3B,SUM	eBird - PAB	1
Arctic Tern	<i>Sterna paradisaea</i>	-	-	S4B,SUM	eBird - PAB	1
Atlantic Puffin	<i>Fratercula arctica</i>	-	-	S5B,S5M	EBird- Ferry	1*
Bald Eagle	<i>Haliaeetus leucocephalus</i>	NAR	-	S4	eBird - PAB	1
					EBird- Ferry	1*
Barn Swallow	<i>Hirundo rustica</i>	T	E	S2B,SUM	eBird - PAB	1
Bay-breasted Warbler	<i>Dendroica castanea</i>	-	-	S2B,SUM	eBird - PAB	1
Belted Kingfisher	<i>Megaceryle alcyon</i>	-	-	S4B, S3N,SUM	eBird - PAB	1
Black Guillemot	<i>Cephus grylle</i>	-	-	S5B,S5M	eBird - PAB	15
					EBird- Ferry	1*
					iNaturalist	1*
Black Scoter	<i>Melanitta nigra</i>	-	-	S2B,S2N,SUM	eBird - PAB	3
Black-bellied Plover	<i>Pluvialis squatarola</i>	-	-	S3M	iNaturalist	1*
Black-capped Chickadee	<i>Poecile atricapilla</i>	-	-	S5	eBird - PAB	1*
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	-	-	S1B, S3N,SUM	eBird - PAB	1
Black-legged Kittiwake	<i>Rissa tridactyla</i>	-	-	S5	eBird - PAB	150
					EBird- Ferry	1*
Blackpoll Warbler	<i>Dendroica striata</i>	-	-	S5B,S5M	eBird - PAB	3
					iNaturalist	1*
Black-throated Green Warbler	<i>Dendroica virens</i>	-	-	S5B,S5M	eBird - PAB	1
					iNaturalist	1*

Table C.1 Fauna species reported in Port aux Basques area by eBird and/or iNaturalist

Common Name	Scientific Name	SARA	NL ESA	NL S-Rank	Source of Record	Total
Blue Jay	<i>Cyanocitta cristata</i>	-	-	S5	eBird - PAB	3
Blue-winged Warbler	<i>Vermivora pinus</i>	-	-	SNA	eBird - PAB	1
Boreal Chickadee	<i>Poecile hudsonica</i>	-	-	S4	eBird - PAB	3
Brown-headed Cowbird	<i>Molothrus ater</i>	-	-	SNA	eBird - PAB	1
Cedar Waxwing	<i>Bombycilla cedrorum</i>	-	-	S4B,SUM	eBird - PAB	1
Chipping Sparrow	<i>Spizella passerina</i>	-	-	S2S3B,SUM	eBird - PAB	2
Common Eider	<i>Somateria mollissima</i>	-	-	S4B,S5N,S5M	eBird - PAB	50
					EBird- Ferry	1*
Common Goldeneye	<i>Bucephala clangula</i>	-	-	S4	eBird - PAB	6
Common Grackle	<i>Quiscalus quiscula</i>	-	-	S5B, S3?N, SUM	eBird - PAB	1
Common Loon	<i>Gavia immer</i>	NAR	-	S5B, S4N	eBird - PAB	4
					EBird- Ferry	1*
					iNaturalist	1*
Common Murre	<i>Uria aalge</i>	-	-	S5B,S5M	EBird- Ferry	1*
Common Raven	<i>Corvus corax</i>	-	-	S5	eBird - PAB	2
Common Redpoll	<i>Acanthis flammea</i>	-	-	S2S3B, S4N,SUM	eBird - PAB	2
Common Tern	<i>Sterna hirundo</i>	NAR	-	S4B,SUM	eBird - PAB	10
					EBird- Ferry	1*
					iNaturalist	1*
Common Yellowthroat	<i>Geothlypis trichas</i>	-	-	S5B,S5M	eBird - PAB	2
Cory's Shearwater	#N/A	-	-	No rank	eBird - PAB	1*
Dark-eyed Junco	<i>Junco hyemalis</i>	-	-	S5	eBird - PAB	4
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	NAR	-	S5B,S5M	eBird - PAB	11
					EBird- Ferry	1*
Dovekie	<i>Alle alle</i>	-	-	No rank	eBird - PAB	3
					EBird- Ferry	1*
European Starling	<i>Sturnus vulgaris</i>	-	-	SNA	eBird - PAB	200
Fox Sparrow	<i>Passerella iliaca</i>	-	-	S5B,S5M	eBird - PAB	1
Glaucous Gull	<i>Larus hyperboreus</i>	-	-	S5N,S5M	eBird - PAB	2
Golden-crowned Kinglet	<i>Regulus satrapa</i>	-	-	S5B, S4N, SUM	eBird - PAB	4
Great Black-backed Gull	<i>Larus marinus</i>	-	-	S4	eBird - PAB	36
					EBird- Ferry	1*
					iNaturalist	1*
Great Blue Heron	<i>Ardea herodias</i>	-	-	S2B,SUM	eBird - PAB	1

Table C.1 Fauna species reported in Port aux Basques area by eBird and/or iNaturalist

Common Name	Scientific Name	SARA	NL ESA	NL S-Rank	Source of Record	Total
					iNaturalist	1*
Great Cormorant	<i>Phalacrocorax carbo</i>	-	-	S3B,S3M,S3N	eBird - PAB	3
Great Shearwater	<i>Ardenna gravis</i>	-	-	No rank	eBird - PAB	1
					EBird- Ferry	1*
Greater Scaup	<i>Aythya marila</i>	-	-	S4	eBird - PAB	4
Greater Yellowlegs	<i>Larus glaucoides</i> OR <i>L. hyperboreus</i>	-	-	S4n or SNA	eBird - PAB	1
	<i>Tringa melanoleuca</i>	-	-	S3B, S4M	iNaturalist	1*
Green-winged Teal	<i>Anas crecca</i>	-	-	S4B,SUM	eBird - PAB	1
Herring Gull	<i>Larus argentatus</i>	-	-	S4	eBird - PAB	150
					EBird- Ferry	1*
					iNaturalist	1*
House Sparrow	<i>Passer domesticus</i>	-	-	SNA	eBird - PAB	15
Iceland Gull	<i>Larus glaucoides</i>	-	-	S5N,S5M	eBird - PAB	290
					EBird- Ferry	1*
Killdeer	<i>Charadrius vociferus</i>	-	-	S3B,SUM	eBird - PAB	2
Leach's Storm-Petrel	<i>Oceanodroma leucorhoa</i>	-	-	S4B,S4M	eBird - PAB	1
Least Sandpiper	<i>Calidris minutilla</i>	-	-	S3B, S5M	iNaturalist	1*
Lesser Yellowlegs	<i>Tringa flavipes</i>	-	-	S3M	iNaturalist	1*
Long- Tailed Duck	<i>Clangula hyemalis</i>	-	-	S5N,S5M	eBird - PAB	3
Magnolia Warbler	<i>Oporornis tolmiei</i>	-	-	0	eBird - PAB	1
Mallard	<i>Anas platyrhynchos</i>	-	-	S3B,SUM	eBird - PAB	1
Manx Shearwater	<i>Puffinus puffinus</i>	-	-	S1B,S1M	eBird - PAB	1
					EBird- Ferry	1*
Merlin	<i>Falco columbarius</i>	NAR	-	S4S5B,SUM	eBird - PAB	16
Mourning Dove	<i>Zenaida macroura</i>	-	-	S3	eBird - PAB	1
Northern Flicker	<i>Colaptes auratus</i>	-	-	S4	eBird - PAB	2
Northern Fulmar	<i>Fulmarus glacialis</i>	-	-	S1B,S1M	eBird - PAB	1
Northern Gannet	<i>Morus bassanus</i>	-	-	S2B,S2M	eBird - PAB	50
					EBird- Ferry	1*
					iNaturalist	1*
Northern Harrier	<i>Circus cyaneus</i>	NAR	-	S3B,SUM	eBird - PAB	3
					iNaturalist	1*
Northern Pintail	<i>Anas acuta</i>	-	-	S3B,SUM	EBird- Ferry	1*
Northern Shoveler	<i>Anas clypeata</i>	-	-	SNA	eBird - PAB	1
Northern Waterthrush	<i>Seiurus noveboracensis</i>	-	-	S5B,S5M	eBird - PAB	4
					iNaturalist	1*
Northern Wheatear	<i>Oenanthe oenanthe</i>	-	-	SNA	eBird - PAB	1
Orange-crowned Warbler	<i>Vermivora celata</i>	-	-	SNA	eBird - PAB	1

Table C.1 Fauna species reported in Port aux Basques area by eBird and/or iNaturalist

Common Name	Scientific Name	SARA	NL ESA	NL S-Rank	Source of Record	Total
Osprey	<i>Pandion haliaetus</i>	-	-	S4S5B,SUM	eBird - PAB	1
Palm Warbler	<i>Dendroica palmarum</i>	-	-	S5B,S5M	eBird - PAB	1
Peregrine Falcon	<i>Falco peregrinus pop. 1</i>	SC	V	S3M, S2N	EBird- Ferry	1*
Pine Siskin	<i>Carduelis pinus</i>	-	-	S4S5	eBird - PAB	20
Piping Plover	<i>Charadrius melodus melodus</i>	E	E	S1B,SUM	iNaturalist	1*
Prothonotary Warbler	<i>Protonotaria citrea</i>	E	-	SNA	eBird - PAB	1
Purple Finch	<i>Carpodacus purpureus</i>	-	-	S5	eBird - PAB	1
Razorbill	<i>Alca torda</i>	-	-	S3B,S3M	eBird - PAB	50
					EBird- Ferry	1*
Red-breasted Merganser	<i>Mergus serrator</i>	-	-	S4B,S4M	eBird - PAB	2
Red-necked Grebe	<i>Podiceps grisegena</i>	-	-	S4N,SUM	eBird - PAB	1
Red-Throated Loon	<i>Gavia stellata</i>	-	-	S4N,SUM	eBird - PAB	1
Ring-billed Gull	<i>Larus delawarensis</i>	-	-	S4B,SUM	eBird - PAB	10
					iNaturalist	0
Ring-necked Duck	<i>Aythya collaris</i>	-	-	S5B,S5M	eBird - PAB	5
					iNaturalist	1*
Rock Pigeon	<i>Columba livia</i>	-	-	SNA	eBird - PAB	10
					EBird- Ferry	1*
					iNaturalist	1*
Rock Wren	<i>Salpinctes obsoletus</i>	-	-	SNA	eBird - PAB	1*
Rough-legged Hawk	<i>Buteo lagopus</i>	NAR	-	S2S3	eBird - PAB	1*
Sanderling	<i>Calidris alba</i>	-	-	S3M	eBird - PAB	10
					iNaturalist	1*
Savannah Sparrow	<i>Passerculus sandwichensis</i>	-	-	S5B,S5M	eBird - PAB	2
					EBird- Ferry	1*
					iNaturalist	1*
Semipalmated Plover	<i>Charadrius semipalmatus</i>	-	-	S1B, S4M	iNaturalist	0
Semipalmated Sandpiper	<i>Calidris pusilla</i>	-	-	S3M	eBird - PAB	14
Short-billed Dowitcher	<i>Limnodromus griseus</i>	-	-	S3M	iNaturalist	0
Snow Bunting	<i>Plectrophenax nivalis</i>	-	-	S5M, S2N	eBird - PAB	4
Song Sparrow	<i>Melospiza melodia</i>	-	-	S4B,SUM	eBird - PAB	6
Sooty Shearwater	<i>Ardenna grisea</i>	-	-	No rank	eBird - PAB	1
					EBird- Ferry	0
Spotted Sandpiper	<i>Actitis macularius</i>	-	-	S4B,SUM	eBird - PAB	1

Table C.1 Fauna species reported in Port aux Basques area by eBird and/or iNaturalist

Common Name	Scientific Name	SARA	NL ESA	NL S-Rank	Source of Record	Total
					EBird- Ferry	0
					iNaturalist	0
Swainson's Thrush	<i>Catharus ustulatus</i>	-	-	S5B,S5M	eBird - PAB	2
Swamp Sparrow	<i>Melospiza georgiana</i>	-	-	S5B,S5M	eBird - PAB	3
					iNaturalist	1
Thick-billed Murre	<i>Uria lomvia</i>	-	-	S4B,S4M	eBird - PAB	1
					EBird- Ferry	1
Tree Swallow	<i>Tachycineta bicolor</i>	-	-	S4B,SUM	eBird - PAB	5
Warbling Vireo	<i>Vireo gilvus</i>	-	-	SNA	eBird - PAB	1
Whimbrel	<i>Numenius phaeopus hudsonicus</i>	-	-	No rank	iNaturalist	1
White Rumped Sandpiper	<i>Calidris fuscicollis</i>	-	-	S3M	eBird - PAB	1
White-throated Sparrow	<i>Zonotrichia albicollis</i>	-	-	S5B,S5M	eBird - PAB	5
White-winged Scoter	<i>Melanitta fusca</i>	-	-	S4N,SUM	eBird - PAB	3
					iNaturalist	0
Willet	<i>Tringa semipalmata</i>	-	-	S1B,SUM	iNaturalist	0
Wilson's Snipe	<i>Gallinago delicata</i>	-	-	S5B,S5M	eBird - PAB	2
Wilson's Warbler	<i>Wilsonia pusilla</i>	-	-	S5B,S5M	eBird - PAB	1
Yellow Warbler	<i>Dendroica petechia</i>	-	-	S5B,S5M	eBird - PAB	4
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	-	-	S5B,S5M	eBird - PAB	1
Yellow-rumped Warbler	<i>Dendroica coronata</i>	-	-	S5B,S5M	eBird – PAB,	2
					iNaturalist	0
Unidentified Jaeger	<i>Stercorarius sp.</i>	-	-	Unknown		1
Unidentified Phalarope	<i>Phalaropus sp</i>	-	-	Unknown	eBird - PAB	1
Unidentified Shearwater	<i>Puffinis or Calonectris sp.</i>	-	-	Unknown	eBird - PAB	1
Unidentified Shorebird	<i>Genus unknown</i>	-	-	Unknown	eBird - PAB	1
Insect						
A caddisfly	<i>Oligostomis pardalis</i>	-	-	SU	iNaturalist	1+
Delta-spotted Spiketail	<i>Cordulegaster diastatops</i>	-	-	No rank	iNaturalist	1+
Half-black Bumble Bee	<i>Bombus vagans</i>	-	-	S3S5	iNaturalist	1+
Luna Moth	<i>Actias luna</i>	-	-	No rank	iNaturalist	1+

Table C.1 Fauna species reported in Port aux Basques area by eBird and/or iNaturalist

Common Name	Scientific Name	SARA	NL ESA	NL S-Rank	Source of Record	Total
Short-tailed Swallowtail	<i>Papilio brevicauda</i>	-	-	S5	iNaturalist	1+
Twelve-spotted Tiger Beetle	<i>Cicindela duodecimguttata</i>	-	-	S4S5	iNaturalist	1+
Mammal						
Minke Whale	<i>Balaena rostrata</i>	-	-	No rank	iNaturalist	0
Moose	<i>Alces alces americana</i>	-	-	SNA	iNaturalist	0

APPENDIX D

Point Count Location Photos and Other Photos of Note

Appendix D - Point Count Location Photos and Other Photos of Note



Photo 1: View from Point Count 01 location



Photo 2: View from Point Count 02 location

Appendix D - Point Count Location Photos and Other Photos of Note



Photo 3: View from Point Count 03 location



Photo 4: View from Point Count 04 location

Appendix D - Point Count Location Photos and Other Photos of Note



Photo 5: View from Point Count 05 location



Photo 6: View from Point Count 06 location

Appendix D - Point Count Location Photos and Other Photos of Note



Photo 7: View from Point Count 07 location



Photo 8: View from Point Count 08 location

Appendix D - Point Count Location Photos and Other Photos of Note



Photo 9: View from Point Count 09 location



Photo 10: View from Point Count 10 location

Appendix D - Point Count Location Photos and Other Photos of Note



Photo 11: View from Point Count 11 location



Photo 12: View from Point Count 12 location

Appendix D - Point Count Location Photos and Other Photos of Note



Photo 13: View from Point Count 13 location



Photo 14: View from Point Count 14 location

Appendix D - Point Count Location Photos and Other Photos of Note



Photo 15: View from Point Count 15 location



Photo 16: View from Point Count 16 location

Appendix D - Point Count Location Photos and Other Photos of Note



Photo 17: View from Point Count 17 location



Photo 18: View from Point Count 18 location

Appendix D - Point Count Location Photos and Other Photos of Note



Photo 19: American Mink scat observed on Vardy's Island in October 2019.



Photo 20: Herring Gull nest observed on Vardy's Island in May 2020.

APPENDIX E

Avifauna Observed by CBCL in 2019 and 2020

> 100 -																							
STATION	Round	Type	Date	Survey	BandCode	Species	At Point	< 100 m	~ 100m	500	> 500 m	Flyover	Individuals	Incidental	Total	Comments	ScientificName	GRank	NRANK	NPROT	SProt	SRank	SRankDate
PC 02	1	Point Count / Area Search	22-Oct-19	Fall	herg	Herring Gull				1		1	2		2		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 02	1	Point Count / Area Search	22-Oct-19	Fall	amcr	American Crow				1			1		1		Corvus brachyrhynchos	G5	N5B,N5N	-	-	S5	2015 03 30
PC 02	1	Point Count / Area Search	22-Oct-19	Fall	tbtmu	Thick-billed Murre				2			2		2		Uria lomvia	G5	N5B,N5N	-	-	S4B,S4M	2015 03 30
PC 02	1	Point Count / Area Search	22-Oct-19	Fall	Cormorant	Cormorant sp.						2	2		2		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
PC 03	1	Point Count / Area Search	22-Oct-19	Fall	gbbg	Great Black-backed Gull				2			2		2		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 03	1	Point Count / Area Search	22-Oct-19	Fall	herg	Herring Gull				2		2	4		4		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 03	1	Point Count / Area Search	22-Oct-19	Fall	amcr	American Crow				1			1		1		Corvus brachyrhynchos	G5	N5B,N5N	-	-	S5	2015 03 30
PC 04	1	Point Count / Area Search	22-Oct-19	Fall	herg	Herring Gull		1		6		2	9		9		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 04	1	Point Count / Area Search	22-Oct-19	Fall	gbbg	Great Black-backed Gull				1			1		1		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 05	1	Point Count / Area Search	22-Oct-19	Fall	gbbg	Great Black-backed Gull				5			5		5		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 05	1	Point Count / Area Search	22-Oct-19	Fall	herg	Herring Gull			2	5		2	9		9		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 06	1	Point Count / Area Search	22-Oct-19	Fall	amcr	American Crow				5		5	10		10		Corvus brachyrhynchos	G5	N5B,N5N	-	-	S5	2015 03 30
PC 06	1	Point Count / Area Search	22-Oct-19	Fall	herg	Herring Gull				2			2		2		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 06	1	Point Count / Area Search	22-Oct-19	Fall	hosp	House Sparrow		1					1		1		Passer domesticus	G5	NNA	-	-	SNA	2015 03 30
PC 07	1	Point Count / Area Search	23-Oct-19	Fall	gbbg	Great Black-backed Gull		1				5	6		6		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 07	1	Point Count / Area Search	23-Oct-19	Fall	herg	Herring Gull		5				2	7		7		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 08	1	Point Count / Area Search	23-Oct-19	Fall	herg	Herring Gull				2		3	5		5		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 10	1	Point Count / Area Search	23-Oct-19	Fall	herg	Herring Gull						1	1		1		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 11	1	Point Count / Area Search	23-Oct-19	Fall	herg	Herring Gull						1	1		1		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 12	1	Point Count / Area Search	23-Oct-19	Fall	herg	Herring Gull						4	4		4		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 14	1	Point Count / Area Search	23-Oct-19	Fall	gbbg	Great Black-backed Gull						3	3		3		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 14	1	Point Count / Area Search	23-Oct-19	Fall	herg	Herring Gull		1					1		1		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 14	1	Point Count / Area Search	23-Oct-19	Fall	gbbg	Great Black-backed Gull			1	1			2		2		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 15	1	Point Count / Area Search	23-Oct-19	Fall	abdu	American Black Duck						1	1		1		Anas rubripes	G5	N5B,N5N	-	-	S4	2015 03 30
PC 15	1	Point Count / Area Search	23-Oct-19	Fall	gbbg	Great Black-backed Gull				14			14		14		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 15	1	Point Count / Area Search	23-Oct-19	Fall	herg	Herring Gull				6			6		6		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 18	1	Point Count / Area Search	23-Oct-19	Fall	herg	Herring Gull				1		2	3		3		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 18	1	Point Count / Area Search	23-Oct-19	Fall	amcr	American Crow						1	1		1		Corvus brachyrhynchos	G5	N5B,N5N	-	-	S5	2015 03 30
PC 18	1	Point Count / Area Search	23-Oct-19	Fall	gbbg	Great Black-backed Gull				2		1	3		3		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 17	1	Point Count / Area Search	23-Oct-19	Fall	NO BIRDS	NO BIRDS							0		0		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
PC 13	1	Point Count / Area Search	23-Oct-19	Fall	grye	Greater Yellowlegs							0		0		Tringa melanoleuca	G5	N5B	-	-	S3B, S4M	2015 03 30
PC 13	1	Point Count / Area Search	23-Oct-19	Fall	cogr	Common Grackle							0	2	2		Quiscalus quiscula	G5	N5B	-	-	S5B, S3?N,	2015 03 30
PC 13	1	Point Count / Area Search	23-Oct-19	Fall	deju	Dark-eyed Junco							0	1	1		Junco hyemalis	G5	N5B,N5N	-	-	S5	2015 03 30
PC 13	1	Point Count / Area Search	23-Oct-19	Fall	hosp	House Sparrow							0	1	1		Passer domesticus	G5	NNA	-	-	SNA	2015 03 30
PC 09	1	Point Count / Area Search	23-Oct-19	Fall	herg	Herring Gull						1	1		1		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 18	1	Point Count / Area Search	23-Oct-19	Fall	amcr	American Crow							0	4	4		Corvus brachyrhynchos	G5	N5B,N5N	-	-	S5	2015 03 30
PC 08	2	Point Count / Area Search	06-Mar-20	Winter	gbbg	Great Black-backed Gull				35			35		35		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 08	2	Point Count / Area Search	06-Mar-20	Winter	herg	Herring Gull				5			5		5		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 08	2	Point Count / Area Search	06-Mar-20	Winter	icgu	Iceland gull				2			2		2		Larus glaucooides	G5	N5B,N5N	-	-	S5N,S5M	2015 03 30
PC 08	2	Point Count / Area Search	06-Mar-20	Winter	coei	Common Eider				28			28		28		Somateria mollissima	G5	N5B,N5N	-	-	S4B,S5N,S5	2015 03 30
PC 07	2	Point Count / Area Search	06-Mar-20	Winter	gbbg	Great Black-backed Gull							6		6		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 07	2	Point Count / Area Search	06-Mar-20	Winter	herg	Herring Gull		2		2			4		4		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 07	2	Point Count / Area Search	06-Mar-20	Winter	blgu	Black Guillemot				1			1		1		Cepphus grylle	G5	N5B,N5N	-	-	S5B,S5M	2015 03 30
PC 07	2	Point Count / Area Search	06-Mar-20	Winter	icgu	Iceland gull		1					1		1		Larus glaucooides	G5	N5B,N5N	-	-	S5N,S5M	2015 03 30
PC 07	2	Point Count / Area Search	06-Mar-20	Winter	cora	Common Raven			2				2		2		Corvus corax	G5	N5	-	-	S5	2015 03 30
PC 06	2	Point Count / Area Search	06-Mar-20	Winter	gbbg	Great Black-backed Gull		2		4			6		6		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 06	2	Point Count / Area Search	06-Mar-20	Winter	herg	Herring Gull				8			8		8		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 06	2	Point Count / Area Search	06-Mar-20	Winter	icgu	Iceland gull				3			3		3		Larus glaucooides	G5	N5B,N5N	-	-	S5N,S5M	2015 03 30
PC 06	2	Point Count / Area Search	06-Mar-20	Winter	NOID	Unidentified white-winged Gull				4			4		4		Larus glaucooides OR L.	#N/A	#N/A	0	0	S5n or SNA	#N/A
PC 05	2	Point Count / Area Search	06-Mar-20	Winter	glgu	Glaucous Gull				1			1		1		Larus hyperboreus	G5	N5B,N5N	-	-	S5N,S5M	2015 03 30
PC 05	2	Point Count / Area Search	06-Mar-20	Winter	cora	Common Raven		2					2		2		Corvus corax	G5	N5	-	-	S5	2015 03 30
PC 05	2	Point Count / Area Search	06-Mar-20	Winter	herg	Herring Gull				5			5		5		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 04	2	Point Count / Area Search	06-Mar-20	Winter	coei	Common Eider				8			8		8		Somateria mollissima	G5	N5B,N5N	-	-	S4B,S5N,S5	2015 03 30
PC 04	2	Point Count / Area Search	06-Mar-20	Winter	colo	Common Loon				1			1		1		Gavia immer	G5	N5B,N5N	NAR	-	S5B, S4N	2015 03 30
PC 04	2	Point Count / Area Search	06-Mar-20	Winter	gbbg	Great Black-backed Gull				9			9		9		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 04	2	Point Count / Area Search	06-Mar-20	Winter	herg	Herring Gull				5			5		5		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 17	2	Point Count / Area Search	07-Mar-20	Winter	gbbg	Great Black-backed Gull				12			12		12		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 17	2	Point Count / Area Search	07-Mar-20	Winter	coei	Common Eider						350	350		350		Somateria mollissima	G5	N5B,N5N	-	-	S4B,S5N,S5	2015 03 30
PC 17	2	Point Count / Area Search	07-Mar-20	Winter	herg	Herring Gull				5			5		5		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 18	2	Point Count / Area Search	07-Mar-20	Winter	blgu	Black Guillemot		1					1		1		Cepphus grylle	G5	N5B,N5N	-	-	S5B,S5M	2015 03 30
PC 18	2	Point Count / Area Search	07-Mar-20	Winter	grco	Great Cormorant		1			1		2		2		Phalacrocorax carbo	G5	N4B,N4N	-	-	S3B,S3M,S3	2015 03 30
PC 13	2	Point Count / Area Search	07-Mar-20	Winter	GBBG	Great Black-backed Gull			4				4		4		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 13	2	Point Count / Area Search	07-Mar-20	Winter	GRCO	Great Cormorant			3				3		3		Phalacrocorax carbo	G5	N4B,N4N	-	-	S3B,S3M,S3	2015 03 30
PC 15	2	Point Count / Area Search	07-Mar-20	Winter	NO BIRDS	NO BIRDS							0		0		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
PC 14	2	Point Count / Area Search	07-Mar-20	Winter	NO BIRDS	NO BIRDS							0		0		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
PC 09	2	Point Count / Area Search	07-Mar-20	Winter	herg	Herring Gull				1	1		2		2		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 09	2	Point Count / Area Search	07-Mar-20	Winter	gbbg	Great Black-backed Gull				2	3		5		5		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 09	2	Point Count / Area Search	07-Mar-20	Winter	cora	Common Raven				2			2		2		Corvus corax	G5	N5	-	-	S5	2015 03 30
PC 09	2	Point Count / Area Search	07-Mar-20	Winter	baea	Bald Eagle					1		1		1		Haliaeetus	G5	N5B,N5N	NAR	-	S4	2015 03 30
PC 13	2	Point Count / Area Search	07-Mar-20	Winter	NO BIRDS	NO BIRDS							0		0		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

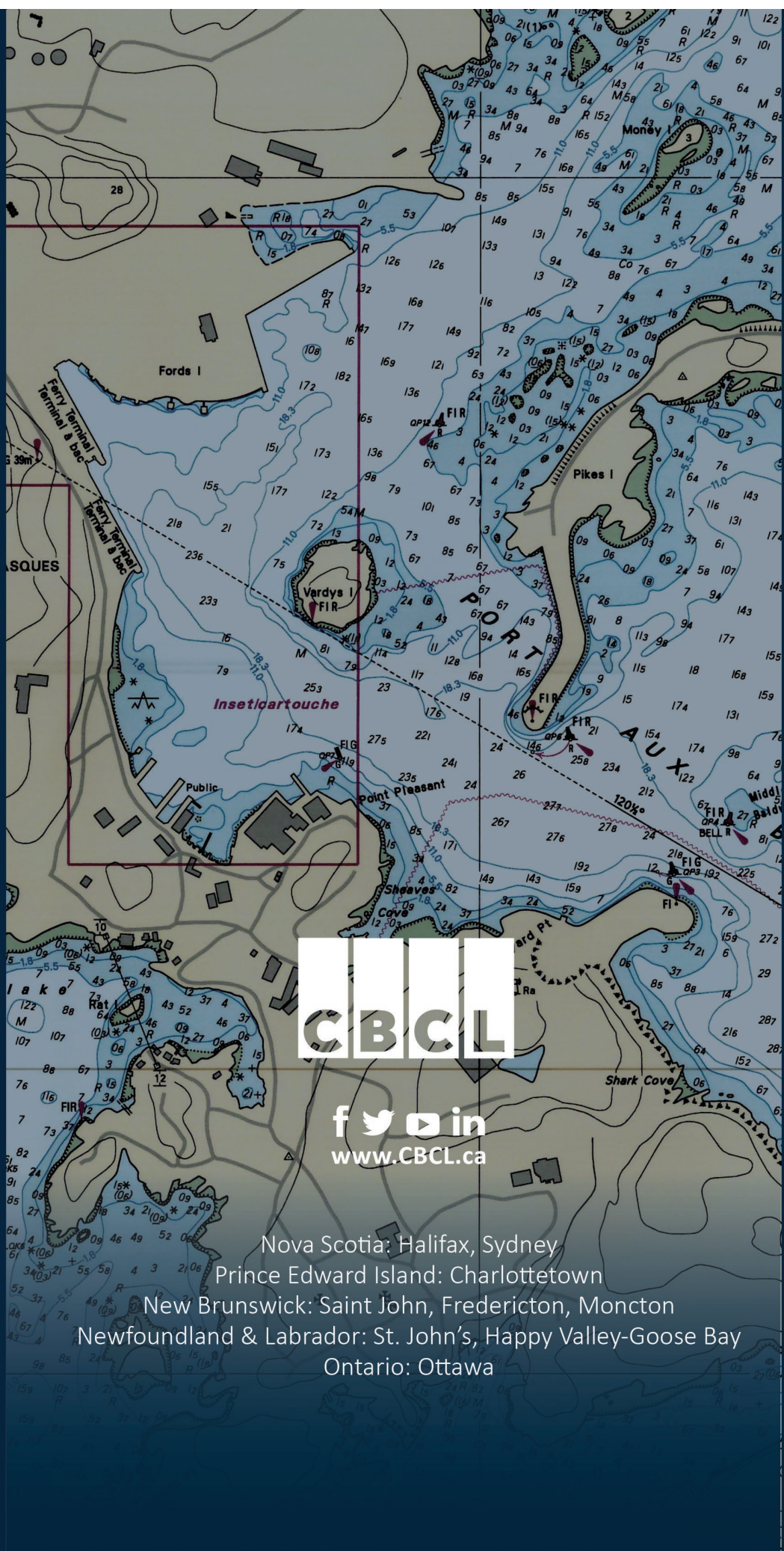
STATION	Round	Type	Date	Survey	BandCode	Species	> 100 -					Flyover	Individuals	Incidental	Total	Comments	ScientificName	GRank	NRANK	NPROT	SProt	SRank	SRankDate
							At Point	< 100 m	~ 100m	500	> 500 m												
PC 12	2	Point Count / Area Search	07-Mar-20	Winter	GBBG	Great Black-backed Gull					7		7		7		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 12	2	Point Count / Area Search	07-Mar-20	Winter	BLGU	Black Guillemot					1		1		1		Cepphus grylle	G5	N5B,N5N	-	-	S5B,S5M	2015 03 30
PC 12	2	Point Count / Area Search	07-Mar-20	Winter	CORA	Common Raven				2			2		2		Corvus corax	G5	N5	-	-	S5	2015 03 30
PC 11	2	Point Count / Area Search	07-Mar-20	Winter	NO BIRDS	NO BIRDS							0		0		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
PC 10	2	Point Count / Area Search	07-Mar-20	Winter	GRCO	Great Cormorant					1		1		1		Phalacrocorax carbo	G5	N4B,N4N	-	-	S3B,S3M,S3	2015 03 30
PC 08	3	Point Count / Area Search	15-May-20	Spring	SOSP	Song Sparrow		1					1		1		Melospiza melodia	G5	N5B,N5N	-	-	S4B,SUM	2015 03 30
PC 08	3	Point Count / Area Search	15-May-20	Spring	HERG	Herring Gull				36			36		36		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 08	3	Point Count / Area Search	15-May-20	Spring	GBBG	Great Black-backed Gull				2	6		8		8	6 (>500m) on nests	Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 08	3	Point Count / Area Search	15-May-20	Spring	DCCO	Double-crested Cormorant							3		3	flyover	Phalacrocorax auritus	G5	N5B	NAR	-	S5B,S5M	2015 03 30
PC 08	3	Point Count / Area Search	15-May-20	Spring	ROPI	Rock Pigeon							3		3	flyover	Columba livia	G5	NNA	-	-	SNA	2015 03 30
PC 07	3	Point Count / Area Search	15-May-20	Spring	DCCO	Double-crested Cormorant			1	1	2	1	5		5	1 (<100m) flyover	Phalacrocorax auritus	G5	N5B	NAR	-	S5B,S5M	2015 03 30
PC 07	3	Point Count / Area Search	15-May-20	Spring	HERG	Herring Gull			2		1		3		3		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 07	3	Point Count / Area Search	15-May-20	Spring	GBBG	Great Black-backed Gull					2		2		2		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 07	3	Point Count / Area Search	15-May-20	Spring	CORA	Common Raven					1		1		1		Corvus corax	G5	N5	-	-	S5	2015 03 30
PC 07	3	Point Count / Area Search	15-May-20	Spring	ROPI	Rock Pigeon		1					1		1		Columba livia	G5	NNA	-	-	SNA	2015 03 30
PC 16	3	Point Count / Area Search	15-May-20	Spring	DCCO	Double-crested Cormorant		2			8		10		10		Phalacrocorax auritus	G5	N5B	NAR	-	S5B,S5M	2015 03 30
PC 16	3	Point Count / Area Search	15-May-20	Spring	GBBG	Great Black-backed Gull					3		3		3	All spot around a	Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 16	3	Point Count / Area Search	15-May-20	Spring	GRCO	Great Cormorant					1		1		1	All spot around a	Phalacrocorax carbo	G5	N4B,N4N	-	-	S3B,S3M,S3	2015 03 30
PC 16	3	Point Count / Area Search	15-May-20	Spring	HERG	Herring Gull					55		55		55	All spot around a	Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 17	3	Point Count / Area Search	15-May-20	Spring	HERG	Herring Gull			7		54		61		61	7 (<100m) associated	Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 17	3	Point Count / Area Search	15-May-20	Spring	DCCO	Double-crested Cormorant		2			1		3		3		Phalacrocorax auritus	G5	N5B	NAR	-	S5B,S5M	2015 03 30
PC 17	3	Point Count / Area Search	15-May-20	Spring	savs	Savannah Sparrow	1						1		1	Singing	Passerculus	G5	N5B	-	-	S5B,S5M	2015 03 30
PC 18	3	Point Count / Area Search	15-May-20	Spring	HERG	Herring Gull				4	28		32		32		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 18	3	Point Count / Area Search	15-May-20	Spring	GBBG	Great Black-backed Gull				3	11		14		14		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 18	3	Point Count / Area Search	15-May-20	Spring	DCCO	Double-crested Cormorant					1		1		1		Phalacrocorax auritus	G5	N5B	NAR	-	S5B,S5M	2015 03 30
PC 06	3	Point Count / Area Search	15-May-20	Spring	DCCO	Double-crested Cormorant			2	2			4		4		Phalacrocorax auritus	G5	N5B	NAR	-	S5B,S5M	2015 03 30
PC 06	3	Point Count / Area Search	15-May-20	Spring	GBBG	Great Black-backed Gull			2				2		2		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 06	3	Point Count / Area Search	15-May-20	Spring	savs	Savannah Sparrow		1					1		1		Passerculus	G5	N5B	-	-	S5B,S5M	2015 03 30
PC 06	3	Point Count / Area Search	15-May-20	Spring	ROPI	Rock Pigeon		4					4		4		Columba livia	G5	NNA	-	-	SNA	2015 03 30
PC 06	3	Point Count / Area Search	15-May-20	Spring	RBGU	Ring-billed Gull			2				2		2		Larus delawarensis	G5	N5B,N5N	-	-	S4B,SUM	2015 03 30
PC 04	3	Point Count / Area Search	16-May-20	Spring	HERG	Herring Gull					2		2		2		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 04	3	Point Count / Area Search	16-May-20	Spring	DCCO	Double-crested Cormorant				1			1		1		Phalacrocorax auritus	G5	N5B	NAR	-	S5B,S5M	2015 03 30
PC 04	3	Point Count / Area Search	16-May-20	Spring	GBBG	Great Black-backed Gull					2		2		2		Larus marinus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 04	3	Point Count / Area Search	16-May-20	Spring	savs	Savannah Sparrow	1						1		1		Passerculus	G5	N5B	-	-	S5B,S5M	2015 03 30
PC 13	3	Point Count / Area Search	16-May-20	Spring	CAGO	Canada Goose			2				2		2	In pond, calling	Branta canadensis	G5	N5B,N5N	-	-	S4	2015 03 30
PC 13	3	Point Count / Area Search	16-May-20	Spring	RCKI	Ruby-crowned Kinglet	2						2		2		Regulus calendula	G5	N5B	-	-	S5B,S5M	2015 03 30
PC 13	3	Point Count / Area Search	16-May-20	Spring	CHSP	Chipping Sparrow	2						2		2		Spizella passerina	G5	N5B	-	-	S2S3B,SUM	2015 03 30
PC 13	3	Point Count / Area Search	16-May-20	Spring	AMRO	American Robin	4						4		4		Turdus migratorius	G5	N5B,N5N	-	-	S5B,S5M	2015 03 30
PC 13	3	Point Count / Area Search	16-May-20	Spring	BEKI	Belted Kingfisher	1						1		1		Megasceryle alcyon	G5	N5B	-	-	S4B,	2015 03 30
PC 13	3	Point Count / Area Search	16-May-20	Spring	SOSP	Song Sparrow	1						1		1		Melospiza melodia	G5	N5B,N5N	-	-	S4B,SUM	2015 03 30
PC 13	3	Point Count / Area Search	16-May-20	Spring	OCWA	Orange-crowned Warbler	2						2		2		Vermivora celata	G5	N5B	-	-	SNA	2015 03 30
PC 13	3	Point Count / Area Search	16-May-20	Spring	BLGU	Black Guillemot				1			1	1	2	Flyover	Cepphus grylle	G5	N5B,N5N	-	-	S5B,S5M	2015 03 30
PC 14	3	Point Count / Area Search	16-May-20	Spring	BUFF	Bufflehead				3			3		3	Near rock and kelp in	Bucephala albeola	G5	N5B,N5N	-	-	S2N,SUM	2015 03 30
PC 15	3	Point Count / Area Search	16-May-20	Spring	HERG	Herring Gull					1		1		1		Larus argentatus	G5	N5B,N5N	-	-	S4	2015 03 30
PC 15	3	Point Count / Area Search	16-May-20	Spring	GBBG	Great Black-backed Gull					1		1		1		Larus marinus						

> 100 -																							
STATION	Round	Type	Date	Survey	BandCode	Species	At Point	< 100 m	~ 100m	500	> 500 m	Flyover	Individuals	Incidental	Total	Comments	ScientificName	GRank	NRANK	NPROT	SProt	SRank	SRankDate
PC 10	3	Point Count / Area Search	17-May-20	Spring	WTSP	White-throated Sparrow	1						1		1		<i>Zonotrichia albicollis</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10	3	Point Count / Area Search	17-May-20	Spring	AMRO	American Robin	2						2		2		<i>Turdus migratorius</i>	G5	N5B,N5N	-	-	\$5B,\$5M	2015 03 30
PC 10	3	Point Count / Area Search	17-May-20	Spring	SOSP	Song Sparrow	1						1		1		<i>Melospiza melodia</i>	G5	N5B,N5N	-	-	\$4B,SUM	2015 03 30
PC 10	3	Point Count / Area Search	17-May-20	Spring	savs	Savannah Sparrow	1						1		1		<i>Passerculus</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10	3	Point Count / Area Search	17-May-20	Spring	AMCR	American Crow					1		1		1		<i>Corvus brachyrhynchos</i>	G5	N5B,N5N	-	-	\$5	2015 03 30
PC 10	3	Point Count / Area Search	17-May-20	Spring	FOSP	Fox Sparrow	1						1		1		<i>Passerella iliaca</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10	3	Point Count / Area Search	17-May-20	Spring	AMGO	American Goldfinch	2					2	4		4	Both calling and flying	<i>Carduelis tristis</i>	G5	N5B,N5N	-	-	\$5	2015 03 30
PC 12	3	Point Count / Area Search	17-May-20	Spring	GBBG	Great Black-backed Gull				1	2		3		3		<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 12	3	Point Count / Area Search	17-May-20	Spring	HERG	Herring Gull				1	1		2		2		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 12	3	Point Count / Area Search	17-May-20	Spring	FOSP	Fox Sparrow	2						2		2		<i>Passerella iliaca</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 12	3	Point Count / Area Search	17-May-20	Spring	WISN	Wilson's Snipe	1						1		1		<i>Gallinago delicata</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 12	3	Point Count / Area Search	17-May-20	Spring	AMRO	American Robin	1						1		1		<i>Turdus migratorius</i>	G5	N5B,N5N	-	-	\$5B,\$5M	2015 03 30
PC 12	3	Point Count / Area Search	17-May-20	Spring	DCCO	Double-crested Cormorant					6		6		6		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 08	4	Point Count / Area Search	17-Jun-20	Summer	GBBG	Great Black-backed Gull		2			13		15		15	2 x 0-50m	<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 08	4	Point Count / Area Search	17-Jun-20	Summer	HERG	Herring Gull		1			6		7		7	1 x 0-50m	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 08	4	Point Count / Area Search	17-Jun-20	Summer	SPSA	Spotted Sandpiper					1		1		1	Calling	<i>Actitis macularius</i>	G5	N5B	-	-	\$4B,SUM	2015 03 30
PC 08	4	Point Count / Area Search	17-Jun-20	Summer	YWAR	Yellow Warbler					1		1		1	Singing, in backyard on	<i>Dendroica petechia</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 08	4	Point Count / Area Search	17-Jun-20	Summer	YRWA	Yellow-rumped Warbler					1		1		1	Singing, in forest on	<i>Dendroica coronata</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 07	4	Point Count / Area Search	17-Jun-20	Summer	HERG	Herring Gull		1		18			19		19	1 x 0-50m	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 07	4	Point Count / Area Search	17-Jun-20	Summer	GBBG	Great Black-backed Gull					16		16		16		<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 07	4	Point Count / Area Search	17-Jun-20	Summer	GRYE	Greater Yellowlegs					1		1		1		<i>Tringa melanoleuca</i>	G5	N5B	-	-	\$3B, \$4M	2015 03 30
PC 07	4	Point Count / Area Search	17-Jun-20	Summer	DCCO	Double-crested Cormorant		1			1		2		2	1 x 0-50m	<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 14	4	Point Count / Area Search	18-Jun-20	Summer	HERG	Herring Gull		1					1		1	1 x 0-50m	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 14	4	Point Count	18-Jun-20	Summer	GBBG	Great Black-backed Gull		2					2		2	2 x 0-50m	<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 14	4	Point Count	18-Jun-20	Summer	FOSP	Fox Sparrow		1					1		1	1 x 0-50m, singing	<i>Passerella iliaca</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 14	4	Point Count	18-Jun-20	Summer	AMRO	American Robin		1					1		1	1 x 0-50m, singing	<i>Turdus migratorius</i>	G5	N5B,N5N	-	-	\$5B,\$5M	2015 03 30
PC 14	4	Point Count	18-Jun-20	Summer	COYE	Common Yellowthroat		1					1		1	1 x 0-50m, singing	<i>Geothlypis trichas</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 14	4	Point Count	18-Jun-20	Summer	YRWA	Yellow-rumped Warbler		1					1		1	1 x 0-50m, singing	<i>Dendroica coronata</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 14	4	Point Count	18-Jun-20	Summer	AMCR	American Crow		1			1		2		2	1 x >50-100m, both	<i>Corvus brachyrhynchos</i>	G5	N5B,N5N	-	-	\$5	2015 03 30
PC 14	4	Point Count	18-Jun-20	Summer	DEJU	Dark-eyed Junco		1					1		1	1 x >50-100m, singing	<i>Junco hyemalis</i>	G5	N5B,N5N	-	-	\$5	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	GBBG	Great Black-backed Gull		2			13		15		15	13 (>500m) on Vardy's	<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	HERG	Herring Gull		1			5		6		6	5 (>500m) with fishing	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	DCCO	Double-crested Cormorant		1			1		2		2		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	CAGO	Canada Goose				2			2		2		<i>Branta canadensis</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	CEDW	Cedar Waxwing				1			1		1	Calling	<i>Bombycilla cedrorum</i>	G5	N5	-	-	\$4B,SUM	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	SPSA	Spotted Sandpiper				1			1		1	Calling	<i>Actitis macularius</i>	G5	N5B	-	-	\$4B,SUM	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	HERG	Herring Gull		1					1		1	1 x 0-50m	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	GBBG	Great Black-backed Gull		2					2		2	2 x 0-50m	<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	SPSA	Spotted Sandpiper				1			1		1		<i>Actitis macularius</i>	G5	N5B	-	-	\$4B,SUM	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	DCCO	Double-crested Cormorant		1			1		2		2		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 15	4	Point Count	18-Jun-20	Summer	AMRO	American Robin		1				1	2		2	Flying	<i>Turdus migratorius</i>	G5	N5B,N5N	-	-	\$5B,\$5M	2015 03 30
PC 18	4	Point Count	18-Jun-20	Summer	GBBG	Great Black-backed Gull		3					3		3	3 x 0-50m	<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 18	4	Point Count	18-Jun-20	Summer	HERG	Herring Gull		2			2		4		4	2 x 0-50m	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 18	4	Point Count	18-Jun-20	Summer	savs	Savannah Sparrow	1						1		1		<i>Passerculus</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 18	4	Point Count	18-Jun-20	Summer	AMRO	American Robin		1					1		1	1 x 0-50m calling	<i>Turdus migratorius</i>	G5	N5B,N5N	-	-	\$5B,\$5M	2015 03 30
PC 09	4	Point Count	18-Jun-20	Summer	GBBG	Great Black-backed Gull		2		2			4		4	2 x >50-100m	<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 09	4	Point Count	18-Jun-20	Summer	HERG	Herring Gull		1		3			4		4	1 x 0-50m	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 09	4	Point Count	18-Jun-20	Summer	DCCO	Double-crested Cormorant					1		1		1		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 18	4	Point Count	18-Jun-20	Summer	DCCO	Double-crested Cormorant		1		1			2		2	0 x 51-100m	<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 18	4	Point Count	18-Jun-20	Summer	CORA	Common Raven		1					1		1	1 x 51-100m	<i>Corvus corax</i>	G5	N5	-	-	\$5	2015 03 30
PC 18	4	Point Count	18-Jun-20	Summer	GBBG	Great Black-backed Gull		1					1		1	1 x 0-50m	<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 18	4	Point Count	18-Jun-20	Summer	HERG	Herring Gull		2	3				5		5	2 x 51-100m	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 18	4	Point Count	18-Jun-20	Summer	DCCO	Double-crested Cormorant			1		3		4		4		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 12	4	Point Count	19-Jun-20	Summer	CEDW	Cedar Waxwing		3		1			4		4	3 x 0-50m, 1 (>100-	<i>Bombycilla cedrorum</i>	G5	N5	-	-	\$4B,SUM	2015 03 30
PC 12	4	Point Count	19-Jun-20	Summer	DEJU	Dark-eyed Junco				2			2		2	Both singing	<i>Junco hyemalis</i>	G5	N5B,N5N	-	-	\$5	2015 03 30
PC 12	4	Point Count	19-Jun-20	Summer	COYE	Common Yellowthroat				1			1		1	Singing	<i>Geothlypis trichas</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 12	4	Point Count	19-Jun-20	Summer	HERG	Herring Gull	1						1		1		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 12	4	Point Count	19-Jun-20	Summer	AMRO	American Robin				1		1	2		2	Flying	<i>Turdus migratorius</i>	G5	N5B,N5N	-	-	\$5B,\$5M	2015 03 30
PC 12	4	Point Count	19-Jun-20	Summer	DCCO	Double-crested Cormorant					3	1	4		4	Flying	<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 11	4	Point Count	19-Jun-20	Summer	NOWA	Northern Waterthrush				1			1		1	Singing	<i>Seiurus noveboracensis</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 11	4	Point Count	19-Jun-20	Summer	HERG	Herring Gull		1		1	2	1	5		5	1 x 0-50m, flyover	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 11	4	Point Count	19-Jun-20	Summer	GBBG	Great Black-backed Gull					3		3		3		<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 11	4	Point Count	19-Jun-20	Summer	DCCO	Double-crested Cormorant					1		1		1		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 11	4	Point Count	19-Jun-20	Summer	COLO	Common Loon	1						1		1		<i>Gavia immer</i>	G5	N5B,N5N	NAR	-	\$5B, \$4N	2015 03 30
PC 11	4	Point Count	19-Jun-20	Summer	YRWA	Yellow-rumped Warbler				1			1		1	Singing	<i>Dendroica coronata</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10	4	Point Count	19-Jun-20	Summer	NOWA	Northern Waterthrush		1					1		1	1 x 50-100m	<i>Seiurus noveboracensis</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10	4	Point Count	19-Jun-20	Summer	DEJU	Dark-eyed Junco				1			1		1		<i>Junco hyemalis</i>	G5	N5B,N5N	-	-	\$5	2015 03 30
PC 10	4	Point Count	19-Jun-20	Summer	COYE	Common Yellowthroat				1			1		1		<i>Geothlypis trichas</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10																							

STATION	Round	Type	Date	Survey	BandCode	Species	> 100 -					Flyover	Individuals	Incidental	Total	Comments	ScientificName	GRank	NRANK	NPROT	SProt	SRank	SRankDate
							At Point	< 100 m	~ 100m	500	> 500 m												
PC 10	4	Point Count	19-Jun-20	Summer	YBFL	Yellow-bellied Flycatcher				1			1		1		<i>Empidonax flaviventris</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10	4	Point Count	19-Jun-20	Summer	AMRO	American Robin			1				1		1	1 x 0-50m, calling	<i>Turdus migratorius</i>	G5	N5B,N5N	-	-	\$5B,\$5M	2015 03 30
PC 10	4	Point Count	19-Jun-20	Summer	HERG	Herring Gull		1			1		2		2	50-100m	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 10	4	Point Count	19-Jun-20	Summer	SWSP	Swamp Sparrow				1			1		1	Singing	<i>Melospiza georgiana</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10	4	Point Count	19-Jun-20	Summer	WTSP	White-throated Sparrow				1			1		1	Singing	<i>Zonotrichia albicollis</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10	4	Point Count	19-Jun-20	Summer	FOSP	Fox Sparrow				1			1		1	Singing	<i>Passerella iliaca</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10	4	Point Count	19-Jun-20	Summer	YRWA	Yellow-rumped Warbler				1			1		1	Singing	<i>Dendroica coronata</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 10	4	Point Count	19-Jun-20	Summer	AMGO	American Goldfinch		1		5			6		6	1 x 0-50m,5 flyover	<i>Carduelis tristis</i>	G5	N5B,N5N	-	-	\$5	2015 03 30
PC 13	4	Point Count	19-Jun-20	Summer	FOSP	Fox Sparrow		1					1		1	Singing	<i>Passerella iliaca</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 13	4	Point Count	19-Jun-20	Summer	ywar	Yellow Warbler		1					1		1	Singing	<i>Dendroica petechia</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 13	4	Point Count	19-Jun-20	Summer	YRWA	Yellow-rumped Warbler		1					1		1	Singing	<i>Dendroica coronata</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 13	4	Point Count	19-Jun-20	Summer	WWCR	White-winged Crossbill						1	1		1	Flyover	<i>Loxia leucoptera</i>	G5	N5	-	-	\$5	2015 03 30
PC 13	4	Point Count	19-Jun-20	Summer	GBBG	Great Black-backed Gull				2			2		2		<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 13	4	Point Count	19-Jun-20	Summer	HERG	Herring Gull			3				3		3		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 13	4	Point Count	19-Jun-20	Summer	DCCO	Double-crested Cormorant						1	1		1	Flyover	<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 13	4	Point Count	19-Jun-20	Summer	FOSP	Fox Sparrow				1			1		1	Singing	<i>Passerella iliaca</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 13	4	Point Count	19-Jun-20	Summer	ywar	Yellow Warbler			1	1			2		2	both singing	<i>Dendroica petechia</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 13	4	Point Count	19-Jun-20	Summer	YBFL	Yellow-bellied Flycatcher			1	1			2		2	both singing	<i>Empidonax flaviventris</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	SOSP	Song Sparrow		1		1			2		2	1 x 0-50m, singing	<i>Melospiza melodia</i>	G5	N5B,N5N	-	-	\$4B,SUM	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	DCCO	Double-crested Cormorant		1					1		1	1 x >50-100m	<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	HERG	Herring Gull		3			2		5		5	3 x 0-50m	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	GBBG	Great Black-backed Gull		2					2		2	2 x 0-50m	<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	RBGU	Ring-billed Gull		3					3		3	2 x 0-50m, 1 x >50-	<i>Larus delawarensis</i>	G5	N5B,N5N	-	-	\$4B,SUM	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	AMRO	American Robin		1					1		1	1 x >50-100m	<i>Turdus migratorius</i>	G5	N5B,N5N	-	-	\$5B,\$5M	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	SOSP	Song Sparrow		1					1		1	1 x 0-50m	<i>Melospiza melodia</i>	G5	N5B,N5N	-	-	\$4B,SUM	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	GBBG	Great Black-backed Gull		5			35		40		40	35 (>500m) on Vardy's	<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	HERG	Herring Gull			1		2		3		3	2 (>500m) on Vardy's	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	GBBG	Great Black-backed Gull		1		4			5		5	1 x 0-50m	<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 06	4	Point Count	20-Jun-20	Summer	HERG	Herring Gull				1			1		1		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 07	5	Point Count	10-Sep-20	Late Summer	herg	Herring Gull		2				7	9		9		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 07	5	Point Count	10-Sep-20	Late Summer	dcco	Double-crested Cormorant				1			1		1		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 08	5	Point Count	10-Sep-20	Late Summer	herg	Herring Gull						3	3		3		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 08	5	Point Count	10-Sep-20	Late Summer	gbbg	Great Black-backed Gull				1			1		1		<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 02	5	Point Count	10-Sep-20	Late Summer	dcco	Double-crested Cormorant				1			1		1		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 02	5	Point Count	10-Sep-20	Late Summer	herg	Herring Gull				1			1		1		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 02	5	Point Count	10-Sep-20	Late Summer	savs	Savannah Sparrow		1					1		1		<i>Passerculus</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 01	5	Point Count	10-Sep-20	Late Summer	herg	Herring Gull						1	1		1		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 03	5	Point Count	10-Sep-20	Late Summer	grye	Greater Yellowlegs		1					1		1		<i>Tringa melanoleuca</i>	G5	N5B	-	-	\$3B, \$4M	2015 03 30
PC 03	5	Point Count	10-Sep-20	Late Summer	savs	Savannah Sparrow		1					1		1		<i>Passerculus</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 09	5	Point Count	10-Sep-20	Late Summer	NO BIRDS	NO BIRDS							0		0		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
PC 06	5	Point Count	10-Sep-20	Late Summer	HERG	Herring Gull		1				4	5		5		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 06	5	Point Count	10-Sep-20	Late Summer	SAVS	Savannah Sparrow		1					1		1		<i>Passerculus</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 05	5	Point Count	10-Sep-20	Late Summer	HERG	Herring Gull				1		1	2		2		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 05	5	Point Count	10-Sep-20	Late Summer	GBBG	Great Black-backed Gull				1			1		1		<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 05	5	Point Count	10-Sep-20	Late Summer	ROPI	Rock Pigeon						8	8		8		<i>Columba livia</i>	G5	NNA	-	-	\$NA	2015 03 30
PC 05	5	Point Count	10-Sep-20	Late Summer	savs	Savannah Sparrow		1					1		1		<i>Passerculus</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 04	5	Point Count	10-Sep-20	Late Summer	HERG	Herring Gull				1		3	4		4		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 04	5	Point Count	10-Sep-20	Late Summer	GBBG	Great Black-backed Gull						2	2		2		<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 04	5	Point Count	10-Sep-20	Late Summer	DCCO	Double-crested Cormorant						2	2		2		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 04	5	Point Count	10-Sep-20	Late Summer	NOGA	Northern Gannet		1				3	4		4	Feeding	<i>Morus bassanus</i>	G5	N4B,N5N	-	-	\$2B,\$2M	2015 03 30
PC 12	5	Point Count	10-Sep-20	Late Summer	herg	Herring Gull		1					1		1		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 12	5	Point Count	10-Sep-20	Late Summer	merl	Merlin		1					1		1		<i>Falco columbarius</i>	G5	N4N,N5B	NAR	-	\$4\$5B,SUM	2015 03 30
PC 12	5	Point Count	10-Sep-20	Late Summer	beki	Belted Kingfisher			1				1		1		<i>Megasceryle alcyon</i>	G5	N5B	-	-	\$4B,	2015 03 30
PC 13	5	Point Count	11-Sep-20	Late Summer	savs	Savannah Sparrow		2					2		2		<i>Passerculus</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 14	5	Point Count	11-Sep-20	Late Summer	beki	Belted Kingfisher		1					1		1		<i>Megasceryle alcyon</i>	G5	N5B	-	-	\$4B,	2015 03 30
PC 14	5	Point Count	11-Sep-20	Late Summer	amcr	American Crow				1			1		1		<i>Corvus brachyrhynchos</i>	G5	N5B,N5N	-	-	\$5	2015 03 30
PC 14	5	Point Count	11-Sep-20	Late Summer	bcch	Black-capped Chickadee		1					1		1		<i>Poecile atricapilla</i>	G5	N5	-	-	\$5	2015 03 30
PC 14	5	Point Count	11-Sep-20	Late Summer	savs	Savannah Sparrow		1					1		1		<i>Passerculus</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 14	5	Point Count	11-Sep-20	Late Summer	nofl	Northern Flicker							0	1	1		<i>Colaptes auratus</i>	G5	N5B	-	-	\$4	2015 03 30
PC 14	5	Point Count	11-Sep-20	Late Summer	amgo	American Goldfinch							0	30	30		<i>Carduelis tristis</i>	G5	N5B,N5N	-	-	\$5	2015 03 30
PC 14	5	Point Count	11-Sep-20	Late Summer	savs	Savannah Sparrow							0	1	1		<i>Passerculus</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 14	5	Point Count	11-Sep-20	Late Summer	grye	Greater Yellowlegs							0	2	2		<i>Tringa melanoleuca</i>	G5	N5B	-	-	\$3B, \$4M	2015 03 30
PC 15	5	Point Count	11-Sep-20	Late Summer	savs	Savannah Sparrow		3					3		3		<i>Passerculus</i>	G5	N5B	-	-	\$5B,\$5M	2015 03 30
PC 15	5	Point Count	11-Sep-20	Late Summer	DCCO	Double-crested Cormorant		8					8		8		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	\$5B,\$5M	2015 03 30
PC 15	5	Point Count	11-Sep-20	Late Summer	GBBG	Great Black-backed Gull				2			2		2		<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 15	5	Point Count	11-Sep-20	Late Summer	grye	Greater Yellowlegs		1					1	1	2		<i>Tringa melanoleuca</i>	G5	N5B	-	-	\$3B, \$4M	2015 03 30
PC 15	5	Point Count	11-Sep-20	Late Summer	GBBG	Great Black-backed Gull		1					1	1	2		<i>Larus marinus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 15	5	Point Count	11-Sep-20	Late Summer	herg	Herring Gull							0	1	1		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	\$4	2015 03 30
PC 16	5	Point Count	11-Sep-20	Late Summer	NO BIRDS	NO BIRDS							0		0		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

> 100 -																							
STATION	Round	Type	Date	Survey	BandCode	Species	At Point	< 100 m	~ 100m	500	> 500 m	Flyover	Individuals	Incidental	Total	Comments	ScientificName	GRank	NRANK	NPROT	SProt	SRank	SRankDate
PC 17	5	Point Count	11-Sep-20	Late Summer	herg	Herring Gull					3		3		3		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 18	5	Point Count	11-Sep-20	Late Summer	GBBG	Great Black-backed Gull					1		1		1		<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 18	5	Point Count	11-Sep-20	Late Summer	herg	Herring Gull					3		3		3		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 18	5	Point Count	11-Sep-20	Late Summer	grye	Greater Yellowlegs		1					1		1		<i>Tringa melanoleuca</i>	G5	N5B	-	-	S3B, S4M	2015 03 30
PC 18	5	Point Count	11-Sep-20	Late Summer	noga	Northern Gannet							0	1	1		<i>Morus bassanus</i>	G5	N4B,N5N	-	-	S2B,S2M	2015 03 30
PC 18	5	Point Count	11-Sep-20	Late Summer	noha	Northern Harrier		3					3	3	6		<i>Circus cyaneus</i>	G5	N4N,N5B	NAR	-	S3B,SUM	2015 03 30
PC 18	5	Point Count	11-Sep-20	Late Summer	herg	Herring Gull							0	2	2		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 18	5	Point Count	11-Sep-20	Late Summer	merl	Merlin		1					1	1	2		<i>Falco columbarius</i>	G5	N4N,N5B	NAR	-	S4S5B,SUM	2015 03 30
PC 18	5	Point Count	11-Sep-20	Late Summer	pawa	Palm Warbler							0	1	1		<i>Dendroica palmarum</i>	G5	N5B	-	-	S5B,S5M	2015 03 30
PC 11	5	Point Count	11-Sep-20	Late Summer	gbbg	Great Black-backed Gull				1		1	2		2		<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 11	5	Point Count	11-Sep-20	Late Summer	dcco	Double-crested Cormorant				9			9		9		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	S5B,S5M	2015 03 30
PC 11	5	Point Count	11-Sep-20	Late Summer	grye	Greater Yellowlegs				1			1		1		<i>Tringa melanoleuca</i>	G5	N5B	-	-	S3B, S4M	2015 03 30
PC 11	5	Point Count	11-Sep-20	Late Summer	herg	Herring Gull				1		1	2		2		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 11	5	Point Count	11-Sep-20	Late Summer	amcr	American Crow				1			1		1		<i>Corvus brachyrhynchos</i>	G5	N5B,N5N	-	-	S5	2015 03 30
PC 10	5	Point Count	11-Sep-20	Late Summer	savs	Savannah Sparrow	1						1		1		<i>Passerculus</i>	G5	N5B	-	-	S5B,S5M	2015 03 30
PC 10	5	Point Count	11-Sep-20	Late Summer	herg	Herring Gull						1	1		1		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Old Dump road		Point Count	May	Incidental	dove	Dovekie							1		1	DEAD	<i>Alle alle</i>	G5	N1B,N5N	-	-	#REF!	2015 03 30
Old Dump road		Nest Search	June		spsa	Spotted Sandpiper							0		0	P, A, Probable	<i>Actitis macularius</i>	G5	N5B	-	-	S4B,SUM	2015 03 30
Old Dump road		Nest Search	June		swsp	Swamp Sparrow							0		0	H, S, Possible	<i>Melospiza georgiana</i>	G5	N5B	-	-	S5B,S5M	2015 03 30
Old Dump road		Nest Search	June		savs	Savannah Sparrow							0		0	H, S, Possible	<i>Passerculus</i>	G5	N5B	-	-	S5B,S5M	2015 03 30
Vardys Island		Nest Search	June		herg	Herring Gull							0		1	Nest wth 2 eggs	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Nest Search	June		gbbg	Great Black-backed Gull							0		1	nest wth 3 eggs	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Nest Search	June		gbbg	Great Black-backed Gull							0		1	1 chick, most down,	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Nest Search	June		gbbg	Great Black-backed Gull							0		0	2 chisk on beach at	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Nest Search	June		gbbg	Great Black-backed Gull							0		0	Adults non-	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Nest Search	June		gbbg	Great Black-backed Gull							0		0	Colony failed. Saw	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		herg	Herring Gull							0		0	nest wth 3 eggs	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		herg	Herring Gull							0		0	nest wth 3 eggs	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		herg	Herring Gull							0		0	nest wth 2 eggs	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		herg	Herring Gull							0		0	nest wth 1eggs	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		herg	Herring Gull							0		0	nest wth 0 eggs	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		gbbg	Great Black-backed Gull							0		0	nest wth 3 eggs	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		gbbg	Great Black-backed Gull							0		0	nest wth 3 eggs	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		gbbg	Great Black-backed Gull							0		0	nest wth 3 eggs	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		gbbg	Great Black-backed Gull							0		0	nest wth 3 eggs	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		gbbg	Great Black-backed Gull							0		0	nest wth 3 eggs	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		gbbg	Great Black-backed Gull							0		0	nest wth 3 eggs	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		sosp	Song Sparrow							0		1		<i>Melospiza melodia</i>	G5	N5B,N5N	-	-	S4B,SUM	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		herg	Herring Gull							0		5	within 100 m on water	<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
Vardys Island		Point Count/Nest Search	15-May-20		gbbg	Great Black-backed Gull							0		7	on rocks within 100 m	<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 112	6	Point Count	13-Oct-20	Oct 2020	herg	Herring Gull	1						1		1		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 112	6	Point Count	13-Oct-20	Oct 2020	BLGU	Black Guillemot	1				2		3		3		<i>Cepphus grylle</i>	G5	N5B,N5N	-	-	S5B,S5M	2015 03 30
PC 112	6	Point Count	13-Oct-20	Oct 2020	GBBG	Great Black-backed Gull	2				3		5		5		<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 112	6	Point Count	13-Oct-20	Oct 2020	BLKI	Black-legged Kittiwake				1			1		1		<i>Rissa tridactyla</i>	G5	N5B,N5N	-	-	S5	2015 03 30
PC 112	6	Point Count	13-Oct-20	Oct 2020	DCCO	Double-crested Cormorant					1		1		1		<i>Phalacrocorax auritus</i>	G5	N5B	NAR	-	S5B,S5M	2015 03 30
PC 112	6	Point Count	13-Oct-20	Oct 2020	PISI	Pine Siskin	6						6		6		<i>Carduelis pinus</i>	G5	N5	-	-	S4S5	2015 03 30
PC 06	6	Point Count	15-Oct-20	Oct 2020	abdu	American Black Duck				7			7		7		<i>Anas rubripes</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 06	6	Point Count	15-Oct-20	Oct 2020	AMCR	American Crow				1			1		1		<i>Corvus brachyrhynchos</i>	G5	N5B,N5N	-	-	S5	2015 03 30
PC 06	6	Point Count	15-Oct-20	Oct 2020	AMRO	American Robin			1				1		1		<i>Turdus migratorius</i>	G5	N5B,N5N	-	-	S5B,S5M	2015 03 30
PC 07	6	Point Count	15-Oct-20	Oct 2020	PISI	Pine Siskin	9						9		9		<i>Carduelis pinus</i>	G5	N5	-	-	S4S5	2015 03 30
PC 07	6	Point Count	15-Oct-20	Oct 2020	BLGU	Black Guillemot		1					1		1		<i>Cepphus grylle</i>	G5	N5B,N5N	-	-	S5B,S5M	2015 03 30
PC 07	6	Point Count	15-Oct-20	Oct 2020	GBBG	Great Black-backed Gull			1				1		1		<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 07	6	Point Count	15-Oct-20	Oct 2020	HERG	Herring Gull				3			3		3		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 10	6	Point Count	15-Oct-20	Oct 2020	BLGU	Black Guillemot	1						1		1		<i>Cepphus grylle</i>	G5	N5B,N5N	-	-	S5B,S5M	2015 03 30
PC 10	6	Point Count	15-Oct-20	Oct 2020	HERG	Herring Gull		1					1		1		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 08	6	Point Count	15-Oct-20	Oct 2020	savs	Savannah Sparrow	2						2		2		<i>Passerculus</i>	G5	N5B	-	-	S5B,S5M	2015 03 30
PC 08	6	Point Count	15-Oct-20	Oct 2020	abdu	American Black Duck			1				1		1		<i>Anas rubripes</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 08	6	Point Count	15-Oct-20	Oct 2020	gbbg	Great Black-backed Gull					3		3		3		<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 08	6	Point Count	15-Oct-20	Oct 2020	noga	Northern Gannet		1					1		1		<i>Morus bassanus</i>	G5	N4B,N5N	-	-	S2B,S2M	2015 03 30
PC 09	6	Point Count	15-Oct-20	Oct 2020	GBBG	Great Black-backed Gull	1		1				2		2		<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 97	6	Point Count	16-Oct-20	Oct 2020	HERG	Herring Gull	1						1		1		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 99	6	Point Count	16-Oct-20	Oct 2020	AMRO	American Robin	1						1		1		<i>Turdus migratorius</i>	G5	N5B,N5N	-	-	S5B,S5M	2015 03 30
PC 99	6	Point Count	16-Oct-20	Oct 2020	AMCR	American Crow					1		1		1		<i>Corvus brachyrhynchos</i>	G5	N5B,N5N	-	-	S5	2015 03 30
PC 100	6	Point Count	16-Oct-20	Oct 2020	HERG	Herring Gull	1	5					6		6		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 101	6	Point Count	16-Oct-20	Oct 2020	HERG	Herring Gull	1	3					4		4		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 101	6	Point Count	16-Oct-20	Oct 2020	GBBG	Great Black-backed Gull		1					1		1		<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30
PC 101	6	Point Count	16-Oct-20	Oct 2020	CORA	Common Raven	1						1		1		<i>Corvus corax</i>	G5	N5	-	-	S5	2015 03 30
PC 102	6	Point Count	16-Oct-20	Oct 2020	HERG	Herring Gull	1				1		2		2		<i>Larus argentatus</i>	G5	N5B,N5N	-	-	S4	2015 03 30

> 100 -																							
STATION	Round	Type	Date	Survey	BandCode	Species	At Point	< 100 m	~ 100m	500	> 500 m	Flyover	Individuals	Incidental	Total	Comments	ScientificName	GRank	NRANK	NPROT	SProt	SRank	SRankDate
PC 102	6	Point Count	16-Oct-20	Oct 2020	AMCR	American Crow	1				1		2		2		<i>Corvus brachyrhynchos</i>	G5	N5B,N5N	-	-	S5	2015 03 30
PC 102	6	Point Count	16-Oct-20	Oct 2020	PISI	Pine Siskin	6						6		6		<i>Carduelis pinus</i>	G5	N5	-	-	S4S5	2015 03 30
PC 102	6	Point Count	16-Oct-20	Oct 2020	SSHA	Sharp-shinned Hawk			1				1		1		<i>Accipiter striatus</i>	G5	N5B,N5N	NAR	-	S4	2015 03 30
PC 102	6	Point Count	16-Oct-20	Oct 2020	GBBG	Great Black-backed Gull		1	1				2		2		<i>Larus marinus</i>	G5	N5B,N5N	-	-	S4	2015 03 30



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