APPENDIX P

TERRESTRIAL RESOURCES TECHNICAL SUPPORT DOCUMENTS

P-1 Baseline Terrestrial Report

P-2.1 GHD Category 2 and Category 3 Updated Modelling Report (Ferrit 2024)

P-2.2 Resource Selection Probability Modelling of Calving Areas using Recent Satellite Telemetry Data (Minnow 2024)

P-2.3 Resource Selection Probability Modelling of Calving Areas Using GHD Spring & Summer and MECP Category 1 Areas (Ferrit 2024)

P-2.4 Report on Caribou Sustainability Metrics for the Springpole Project Current and Future Condition Scenarios with Assessments at LSA and RSA Scales (Ferrit 2024)

2024 Terrestrial Resources Baseline Report Update

Springpole Gold Project

First Mining Gold Corp.

ONS2104

Prepared by:
WSP Canada Inc.

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2024 Terrestrial Resources Baseline Report Update
Springpole Gold Project

Red Lake District, Northwest Ontario
Project #ONS2104

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EXECUTIVE SUMMARY

First Mining Gold Corp. proposes to develop an open pit gold and silver mine with supporting facilities known as the Springpole Gold Project (Project). The Project is located in a remote area of northwestern Ontario, approximately 110 kilometres (km) northeast of the Municipality of Red Lake and 145 km north of the Municipality of Sioux Lookout.

An environmental assessment pursuant to the *Canadian Environmental Assessment Act, 2012* (SC 2012, c. 19, s. 52) and the *Ontario Environmental Assessment Act* (RSO 1990, c. E.18) is required to be completed for the Project. Several policy and regulatory frameworks apply to the Project beyond the *Canadian Environmental Assessment Act, 2012* and *Ontario Environmental Assessment Act*, including the *Species at Risk Act* (SC 2002, c. 29), *Migratory Birds Convention Act, 1994* (SC 1994, c. 22), *Endangered Species Act, 2007* (SO 2007, c. 6), *Planning Act* (RSO 1990, c. P.13) and the Provincial Policy Statement, 2020 (MMAH 2020).

This report has been prepared by WSP Canada Inc. (WSP) on behalf of FMG Mining Gold Corp. to describe the existing environment up to the end of 2023. Previous baseline terrestrial habitat and wildlife studies have been completed since 2012 and incorporated as background data. Previous baseline studies included spatial coverage and characterization in areas directly within and immediately adjacent to the existing camp. Supplemental baseline terrestrial assessments for Species at Risk (SAR), vegetation communities, and flora and fauna along the proposed transmission line alternative routes and are documented in this report.

As part of the Project, all eight Indigenous communities were contacted to participate in the environmental assessment process, and to provide traditional knowledge and traditional land use information. To date, six Indigenous communities, Cat Lake First Nation, Lac Seul First Nation, Mishkeegogamang Ojibway Nation, Slate Falls Nation, Wabauskang First Nation and the Northwestern Ontario Métis Community, have provided traditional knowledge and traditional land use information. This information has been incorporated into this report.

The scales of investigation include the Project Development Area (PDA), Local Study Area (LSA), and Regional Study Area (RSA). The PDA encompasses the anticipated footprint of the Project within the care and control of First Mining Gold, including the mine site, and includes a buffer around the footprint to accommodate for Project optimization. The LSA extends beyond the PDA and was defined by applying a buffer around the PDA. The RSA encompasses and extends beyond the PDA and LSA.

Surveys were completed at various times of the year to target appropriate windows for specific species to characterize the natural environment within the PDA. Vegetation was surveyed to inform Ecological Land Classification delineation and document plant SAR locations. Breeding bird surveys, acoustic bat surveys, and bat maternity roosting and hibernaculum habitat assessments were completed to document fauna SAR and habitat distributions. Autonomous recording units were deployed to document SAR and nocturnal bird species in remote areas. Aerial surveys were undertaken with a focus on distribution and abundance of Boreal Caribou. A telemetry program for Boreal Caribou was initiated in 2023. Distribution (from tracks and observations) of Wolverine, Moose, Grey Wolf (i.e., wolf), otter, beaver, marten, and stick nests were also documented during aerial surveys. A Wolverine run pole station (combined hair snag / non-invasive camera) program was initiated in 2023.

Screening of available background information from existing studies, plans, databases, and other sources was completed. The desktop screening assisted in the preliminary determination of existing Natural Heritage Features and candidate features and additional sensitivities to ascertain plant and wildlife species present and contribute to understanding watercourses within the baseline investigation area. Data also included potential occurrences of species of conservation concern, including SAR and provincially rare

species, and whether any areas of natural and scientific interest, environmentally sensitive areas and Provincially Significant Wetland are located within or adjacent to the baseline investigation area.

The Project occurs in Ecoregion 3S, the Lake St. Joseph Ecoregion, and is relatively dry and cold. In general, the baseline investigation area is rather flat and uniform; cliffs and very rugged topography are rare, and areas of exposed rock tend to be very small and local. Much of the area is covered by open lakes, many of which are relatively shallow and have abundant floating and submerged vegetation at the margins. Vast areas of wetlands primarily consist of bogs and swamps dominated by Black Spruce (wetland communities comprise approximately 18% of both the LSA and RSA). Upland areas are mostly conifer forests dominated by Black Spruce and Jack Pine, with smaller areas of mixed and deciduous forest of White Birch and Trembling Aspen (terrestrial communities comprise approximately 47% of the LSA and 46% RSA). Some portions of the baseline investigation area have extensive areas of young trees and shrubs regenerating in logged or burned areas; Ecoregion 3S experiences intense and frequent fire disturbance.

The headwaters of several major rivers are located in Ecoregion 3S, and therefore, watercourses tend to be short, slow-moving, and meandering connections between lakes; rapids are very rare, and most watercourses have broad wetlands adjacent.

Ecoregion 3S is sparsely settled but contains the Indigenous communities of Cat Lake First Nation, Slate Falls Nation, and Pikangikum First Nation. Forest management activities are expanding into this area and road access and harvesting are spreading northwards from Red Lake. Most of the northern sections of the baseline investigation area show little evidence of human disturbance. Road networks associated with logging and with the community of Slate Falls are present in the southwestern and southeastern parts of the baseline investigation area, and two transmission line corridors run east–west across the baseline investigation area. Isolated fishing and hunting lodges are scattered throughout larger lakes.

Terrestrial ecosites comprised approximately 80% of the of the baseline investigation area and B049 is the most common ecosite. Wetland ecosites comprised approximately 20% of the baseline investigation area. The RSA is composed of 61 Boreal ecosites and 3 unclassified ecosites (U997, U998, U999). Based on the FRI provided in September 2023, ecosite classification was updated. A total of 397 species of vascular plants were identified within the RSA during field investigations across 2021 and 2022. Of the species present, almost all are native to Ontario, with only 29 non-native species documented. Five species of plants (including Black Ash) are classified as rare in Ontario (ranked S1, S2, or S3). There are no publicly available records (i.e., provincial datasets) of Provincially Significant Wetlands that occur in the baseline investigation area. To better understand wetlands in the baseline investigation area, specific fieldwork was completed and found that significant wetlands are abundant in the RSA.

The most abundant and frequently observed birds in the RSA are representative of the avifauna and habitats found in the RSA (boreal coniferous forest and wetland): Ruby-crowned Kinglet, Nashville Warbler, White-throated Sparrow, Dark-eyed Junco, and Yellow-rumped Warbler. More than 20 raptor nests, including those for Bald Eagle and Osprey were confirmed in the RSA. Analysis for SAR birds in autonomous recording unit data revealed detections of four SAR birds: Common Nighthawk, Eastern Whip-poor-will, Olive-sided Flycatcher, and Lesser Yellowlegs.

Spring Peeper, American Toad, and Wood Frog were abundant throughout the RSA in a wide variety of habitats, while Northern Leopard Frog was present locally in low numbers. Common Gartersnake was observed frequently throughout the RSA. Thirty species of butterflies were recorded during field investigations; one species, Old World Swallowtail, is considered a rare species in Ontario. Thirty-two species of dragonflies and damselflies were also recorded incidentally during field investigations. One species, Subarctic Darner, is considered a rare species in Ontario (ranked S2S3).

Eighteen species of mammals were observed during field investigations, including bats recorded on detectors, as well as incidental sightings (including tracks and other sign). North American River Otter, North American Beaver, American Marten were frequently recorded in riparian and open water areas through the RSA. Wolverine tracks were documented along the edges of lakes and streams in multiple locations. WSP Canada Inc. completed ungulate surveys and frequently documented Moose, especially in the southern portion of the baseline investigation area, Wolves (group of 5 in 2021, single in 2022) and frequent signs, and numerous Caribou groups. Caribou were also documented frequently during summer and fall field surveys.

Bat maternity roosting habitat assessments were completed, and results indicate that nearly all deciduous, mixed and coniferous forests in the baseline investigation area have sufficient cavities to support bat maternity roosts. From bat detector surveys, the most frequently recorded species within the baseline investigation area were by far the Silver-Haired Bat, followed by the Hoary Bat. SAR bat species (e.g., Little Brown Myotis and Northern Myotis) and Eastern Red Bat were less common. Fifteen locations with potentially suitable hibernaculum features were evaluated, and of these, four were identified as candidate bat hibernacula.

Twelve SAR have been confirmed in the baseline investigation area: three listed as Endangered (Black Ash, Little Brown Myotis, Northern Myotis); four listed as Threatened (Eastern Whip-poor-will, Lesser Yellowlegs, Caribou [Boreal population] and Wolverine); and nine listed as Special Concern (Barn Swallow, Canada Warbler, Common Nighthawk, Eastern Wood-pewee, Evening Grosbeak, Olive-sided Flycatcher, Peregrine Falcon, Rusty Blackbird, and Yellow Rail)). Endangered and Threatened species receive individual and habitat protection. Special Concern species are protected under Significant Wildlife Habitat (SWH). Other confirmed SWH in the baseline investigation area include waterfowl stopover and staging areas: aquatic, colonially nesting bird breeding habitat: tree/shrub; colonially nesting bird breeding habitat: ground; bat maternity colonies; bat hibernacula; regionally rare plant species; wild rice stand; Bald Eagle and Osprey nesting habitat; aquatic feeding habitat; and marsh bird breeding habitat.

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LIST OF ABBREVIATIONS

%	percent
°C	degrees Celsius
AMIS	Abandoned Mines Information System
ANSI	area of natural and scientific interest
ARU	autonomous recording unit
CDF	co-disposal facility
cm	centimetre
cm/ha	centimetres per hectare
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
COSSARO	Committee on the Status of Species at Risk in Ontario
dB	decibel
DBH	diameter at breast height
EA	environmental assessment
ECCC	Environment and Climate Change Canada
EIS	Environmental Impact Statement
ELC	Ecological Land Classification
EO	element occurrence
ESA	Endangered Species Act, 2007
EWPW	Eastern Whip-poor-will
FMG	First Mining Gold Corp.
FRI	Forest Resource Inventory
GHD	General Habitat Description
ha	hectare
Hz	hertz
HSI	Habitat Suitability Index
KDE	kernel density estimators
kHz	kilohertz
km	kilometre
km^2	square kilometres
km/h	kilometres per hour

kV	kilovolt
LSA	Local Study Area
m	metre
m^2	square metre
MAFA	Moose aquatic feeding area
masl	metres above sea level
MECP	Ministry of the Environment, Conservation and Parks
mm	millimetre
MNR	Ministry of Natural Resources
NHIC	Natural Heritage Information Centre
NWES	NorthWinds Environmental Services
OBBA	Ontario Breeding Bird Atlas
ORAA	Ontario Nature Reptile and Amphibian Atlas
OWES	Ontario Wetland Evaluation System Northern Manual
p value	probability
PDA	Project Development Area
Project	Springpole Gold Project
RMSE	root mean square error
RSA	Regional Development Area
SAR	Species at Risk
SARA	*Species at Risk Act*
SWH	Significant Wildlife Habitat
tpd	tonnes per day
TSSR	time since sunrise
UTM	Universal Transverse Mercator
VC	Valued Component
WSP	WSP Canada Inc.

1.0 INTRODUCTION

First Mining Gold Corp. (FMG) proposes to develop, operate, and eventually decommission/close an open pit gold and silver mine and ore process plant with supporting facilities known as the Springpole Gold Project (Project). The Project is located in a remote area of northwestern Ontario, approximately 110 kilometres (km) northeast of the Municipality of Red Lake and 145 km north of the Municipality of Sioux Lookout (Figure 1-1).

An environmental assessment pursuant to the *Canadian Environmental Assessment Act, 2012* (SC 2012, c. 19, s. 52) and the *Ontario Environmental Assessment Act* (RSO 1990, c. E.18) is required to be completed for the Project. Several policy and regulatory frameworks apply to the Project beyond the *Canadian Environmental Assessment Act, 2012* and *Ontario Environmental Assessment Act*, including the *Species at Risk Act* (SC 2002, c. 29), *Migratory Birds Convention Act, 1994* (SC 1994, c. 22), *Endangered Species Act, 2007* (SO 2007, c. 6), *Planning Act* (RSO 1990, c. P.13) and the Provincial Policy Statement, 2020 (MMAH 2020). This document is one of a series of baseline reports prepared by WSP Canada Inc. (WSP) on behalf of FMG to describe the current environmental conditions and update existing information.

1.1 Purpose and Objective of the Report

The 2024 terrestrial resources baseline report has been prepared with the following objectives:

- To support the EA, add to the existing data repository, address data gaps, and incorporate consultation input into the current baseline studies completed to date.
- Continue quantifying natural heritage features' distribution and abundance relative to proposed Project components.
- Document results of all vegetation and wildlife surveys completed for the Project in 2021, 2022, 2023, and 2024 (and a summary of previously completed work).

The following items are documented in this baseline report:

- Plant and animal species (abundance, distribution, and diversity) and their habitats that are found or are likely to be found in the baseline investigations area, with a focus on species at risk (SAR) or with special status that are of social, economic, cultural, or scientific significance, as well as invasive alien species and species used for traditional purposes by Indigenous groups;
- Birds and their habitats that are found:
    - Abundance, distribution, and life stages of migratory and non-migratory birds (including waterfowl, raptors, shorebirds, marsh birds and other land birds);
- Characterization of various ecosystems likely to be affected;
- Year-round use of the baseline investigations area by migratory birds (e.g., winter, spring migration, breeding season, fall migration);
- A list of SAR that may be found in the baseline investigations area that are listed under the Canadian *Species at Risk Act* (SARA; SC 2002, c. 29) and/or the Ontario *Endangered Species Act, 2007* (ESA; SO 2007, c. 6):
    - A list of species found during surveys that are assessed by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) and/or the Committee on the Status of Species at Risk in Ontario (COSSARO) as Extirpated, Endangered, Threatened, or of Special Concern;

- Where necessary, documentation of the regional importance, abundance, and distribution of SAR including, but not limited to, the recovery strategy and action plan for Caribou (Boreal population); and
- Information on residences, seasonal movements, movement corridors, habitat requirements, key habitat areas, identified critical habitat and/or recovery habitat (where applicable) and general life history of SAR that may be affected by the Project.

Note that all species names contained in this report are referred to by common English names; scientific names are provided in Attachment 1.

1.1.1 Project Overview

The ore body is located under a small portion of the northern bay of Springpole Lake. To allow for the development and safe operation of the open pit mine, dikes will be established to facilitate controlled dewatering of the mining area. Ore from the open pit will be processed in an onsite process plant at approximately 30,000 tonnes per day (tpd). Tailings resulting from the processing of ore will be stored in a co-disposal facility.

The main components of the Project include:

- Open pit and related infrastructure;
- Dikes (west dike and east dike);
- CDF for mine rock and tailings;
- Surficial soil stockpile;
- Ore stockpiles;
- Process plant and process plant complex;
- Site infrastructure;
- Water management and treatment facilities;
- Fish habitat development area;
- Accommodations complex;
- Aggregate operation(s);
- Transmission line; and
- Mine access road and co-located airstrip.

The Project is expected to be developed over a three-year period in which dikes will be established to support the controlled dewatering of an isolated area for open pit mining. The mine will be operated for a period of approximately 10 years. Active closure of the site is expected to be five years in length and will be followed by a period of environmental monitoring.

1.1.2 Valued Components

The Valued Components (VCs) identified in this section relate to biophysical elements that may be affected by the Project. The value of a component not only relates to its role in the ecosystem, but also to the value people place on it. With input from Indigenous communities and other interested parties, FMG sought to identify components of the environment that are especially valued. The identification of VCs is particularly important because it is not practical or feasible to adopt a "study everything" approach and these VCs aim

to answer the above study objectives. During the EA process, potential adverse environmental effects on these VCs will be described for each phase of the Project. VCs considered are presented in Table 1-1.

1.2 Study Area Delineation

The scales of assessment included the Project Development Area (PDA), Local Study Area (LSA), and Regional Study Area (RSA) (Figure 1–2). The PDA encompasses the anticipated footprint of the Project within the care and control of FMG and includes the mine site (plus a 250 metre buffer), the mine site access road corridor (within a 60 metre corridor), and the transmission line corridor (within a 40 metre corridor). The mine site includes the footprint of the process plant, shops and other buildings, co-disposal facility, mine rock storage, ore stockpile and crusher, open pit, haul roads and other supporting infrastructure. The mine site access road corridor includes an access road from the process plant to the existing Wenasaga Road. The transmission line corridor includes the 230-kilovolt (kV) transmission line from the process plant to the Wataynikaneyap 230 kV transmission line.

The LSA extends beyond the PDA and was defined by applying a buffer around the PDA to reflect the primary area of expected local effects. The size of the LSA is intended to capture anticipated direct effects from the Project (such as discharges and habitat loss) and indirect effects (such as emissions) resulting from the Project. The LSA is detailed in Table 1-2 and Figure 1–2 and is also referred to as the impact area.

The RSA encompasses and extends beyond the PDA and LSA. The RSA is used to provide regional context for assessing potential Project effects and cumulative effects on habitat and populations and is the maximum geographical extent (or zone of influence) in which effects from the Project may be identifiable. The RSA is detailed in Table 1-2 and Figure 1–2 and is also referred to as the reference area.

1.3 Baseline Investigation Area Overview

The spatial areas used for the completion of the baseline investigations area based on a conservative estimate of the overall Project footprint and alternatives considered, including an appropriate buffer based on the VC being studied to support the effects assessment (Figure 1-3). The Project occurs in Ecoregion 3S, the Lake St. Joseph Ecoregion (Figure 1–4), and is relatively dry and cold with the mean annual temperature ranging between -1.7 and 1.0 degrees Celsius (°C), the mean length of the growing season being between 162 and 179 days, the mean annual precipitation ranging between 613 and 787 millimetres (mm), and the mean summer rainfall being between 244 and 299 mm (Crins et al. 2009). Ecoregion 3S is classified as part of the Subhumid Mid-Boreal Ecoclimatic Region by the Ecoregions Working Group (1989). Significant growing season moisture deficits can occur.

The baseline investigations area is underlain by glaciated terrain characteristics of a large part of the Canadian Shield. Land areas are generally of low relief with less than 30 metres (m) of local elevation and have relatively shallow sandy and loamy tills over bedrock, broken at broad intervals by esker and moraine ridges, with pockets of glaciolacustrine clays in lower-lying topographic positions (Crins et al. 2009). The baseline investigations area is within the Lac Seul Upland, which extends eastward from Lake Winnipeg in Manitoba to the Albany River in northwestern Ontario.

Ecoregion 3S is situated largely within Rowe's (1972) Northern Coniferous Forest Section within the Boreal Forest Region. Coniferous forest dominates Ecoregion 3S, with approximately 30 percent (%) of the area occupied by it. Upland vegetation is composed primarily of Jack Pine and Black Spruce, with White Spruce and Balsam Fir associates, depending on the time since last disturbance by fire. Trembling Aspen and White Birch can form open and closed stands, as well as forming part of Jack Pine– or Black Spruce–dominated mixedwoods. Dry sites often support open Jack Pine lichen woodlands that are important habitat for Caribou (Boreal population). Large open peatlands (fens or bogs) dominate the lowlands; treed lowlands are dominated by Black Spruce with Tamarack (Crins et al. 2009). Glacial till is generally less than 1 m in

thickness and on richer, moist mineral sites, Balsam Poplar and Black Ash occur as components of lowland and riparian mixedwood forests. Outcrops are limited, small and generally covered by a thick layer of moss or muskeg. Land areas are separated by a series of interconnected shallow ponds and lakes and the headwaters of several major rivers are located in Ecoregion 3S (Crins et al. 2009). The average elevation in the baseline investigations area is 395 metres above sea level (masl).

With the landscape dominated by shallow substrates and a periodically dry climate, Ecoregion 3S experiences intense and frequent fire disturbance. Upland coniferous forest fire cycles range between 50 and 187 years, and the fires tend to be stand replacing. Mixed forest fire cycles range between 63 and 210 years, and the intensity of fires is much more variable (Crins et al. 2009).

Forest composition in the baseline investigations area is typical of the Lac Seul Upland. Black Spruce is the dominant tree species and associate trees include Tamarack, Trembling Aspen, White Spruce and Balsam Fir, and sections with Jack Pine. Understory ground cover species composition and abundance is typical of mesic mixedwood boreal sites. A variety of common, early successional graminoids and herbaceous ground cover plants are prevalent in parts of the baseline investigations area where mature timber has been removed or where the canopy is open and the ground is exposed to light. Natural re-vegetation and succession has been observed to be rapid at the baseline investigations area in areas of historical exploration.

Caribou (Boreal population) is a characteristic large mammal in Ecoregion 3S. Grey Wolf, Wolverine, Canada Lynx, Moose, American Mink, Snowshoe Hare, Common Loon, Bald Eagle, Hermit Thrush, White-throated Sparrow, American Toad, Boreal Chorus Frog, Wood Frog and Red-sided Gartersnake are also notable vertebrate species occurring in the ecoregion. In aquatic ecosystems, Lake Trout, Lake Sturgeon, Walleye, White Sucker and Northern Redbelly Dace are found and Goldeye, a less widely distributed fish, also occurs (Crins et al. 2009).

Ecoregion 3S is sparsely settled but contains the Indigenous communities of Cat Lake, Slate Falls and Pikangikum. There is increasing interest in the expansion of forest management activities into this area, and road access and harvesting are spreading northwards from Red Lake (Crins et al. 2009). The baseline investigations area is less than 100 km from the boundaries of the following protected areas (Figure 1-3):

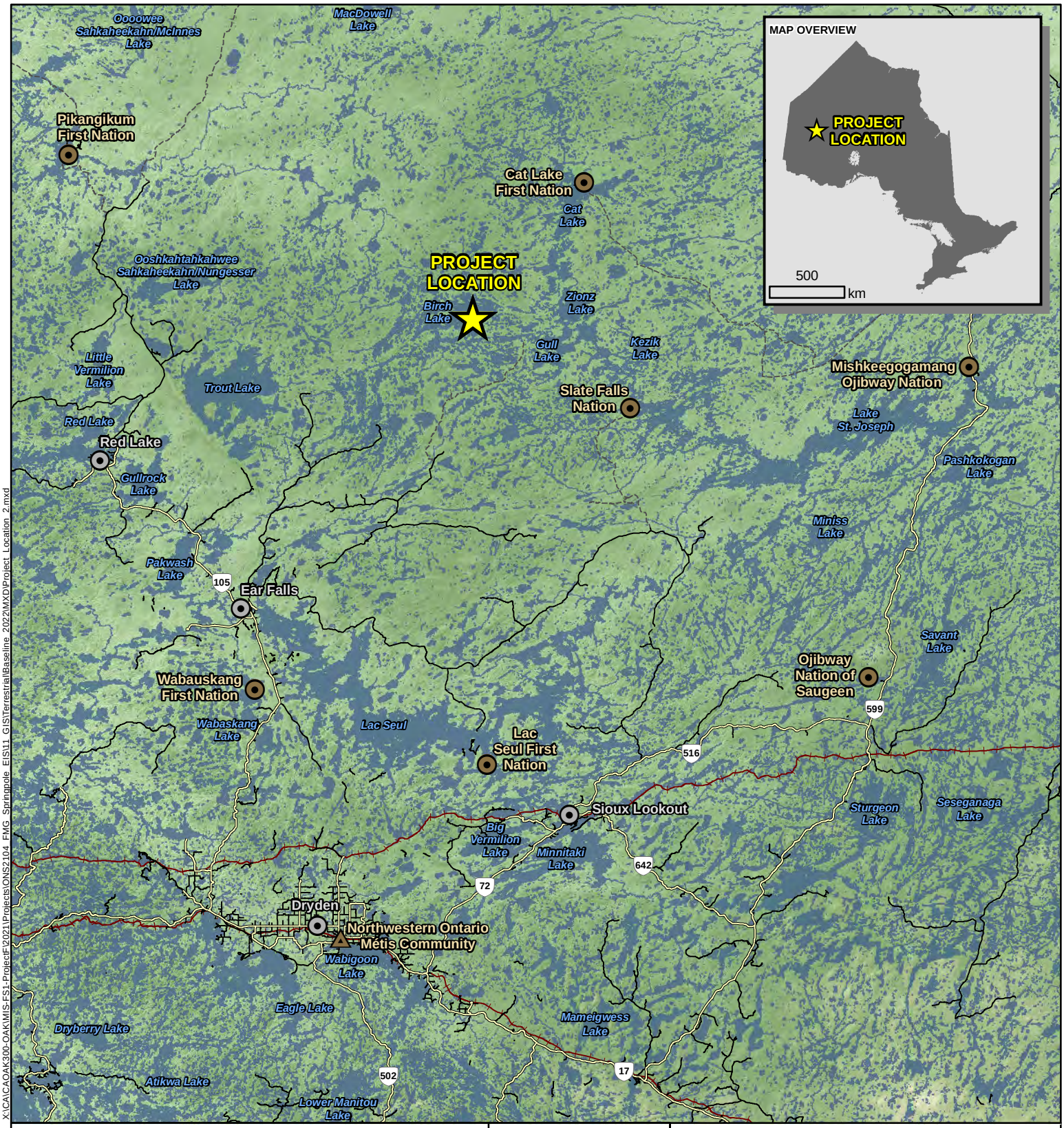
- Trout Lake Provincial Natural Reserve (74 km away from the baseline investigations area);
- St. Raphael Provincial Park (95 km away from the baseline investigations area);
- Beekahncheekahmeeng Deebahncheekayweehn Eenahohnahnuhn Provincial Park (24 km away from the baseline investigations area);
- Whitemud River earth science area of natural and scientific interest (ANSI) of Regional Significance and the Whitemud Conservation Reserve (67 km away from the baseline investigations area);
- Gull-Christina Conservation Reserve (25 km away from the baseline investigations area);
- Brokenmouth River Conservation Reserve (42 km away from the baseline investigations area); and
- Harth Lake Conservation Reserve (58 km away from the baseline investigations area).

Table 1-1: Valued Components and Rationale

Valued Component	Rationale
Vegetation Communities	Vegetation communities and associated terrestrial habitat provide or potentially provide: - Areas of notable biological diversity; - Significant habitats for locally important species; - Important corridors or linkages for fish and or wildlife movement; - Significant habitat for SAR migratory birds and bat species; - Important component to the function of other ecosystem elements or function; - Economic, social, or cultural significance (such as hunting); and - Educational, scientific, or aesthetic significance. No rare vegetation communities were located during field investigations to date.
Wetlands	Wetlands have an important role in supporting biodiversity and traditional use by Indigenous communities, as well as their contributions to ecosystem functions at a local and regional landscape.
Wildlife and Wildlife Habitat	Wildlife and wildlife habitat has been selected as a VC due to the potential interactions with Project activities. Wildlife is considered all species, not including Threatened and Endangered species (considered as separate VCs). Birds are migratory and non-migratory and are grouped as follows (IAAC, 2021): - Forest birds; - Raptors; - Shorebirds; - Waterfowl; and - Bog/fen, wetland birds. Wildlife habitat is represented as Significant Wildlife Habitat (SWH). Wildlife and wildlife habitat was added as a VC as interactions with Project activities are considered by FMG, Indigenous communities, the public, the scientific community, and government agencies to have ecological, aesthetic, recreational, economic, and cultural importance. Lastly, Special Concern species are considered under this VC as Threatened and Endangered species have specific individual and habitat protection under the provincial ESA.
Large Mammals (considered under the wildlife and wildlife habitat VC)	The large mammals VC includes Moose, wolf, and Black Bear. While these species are considered under the wildlife and wildlife habitat VC, this VC has a separate LSA and RSA.
Species at Risk: Caribou (Boreal population)	Caribou (Boreal population) are classed as Threatened, both provincially and federally. The Project is located within the Churchill Caribou Range. The PDA contains portions of known wintering, calving/nursery, and summering areas. There are potential corridors or travel routes leading from wintering areas surrounding Springpole Lake to calving areas located on Birch Lake and smaller lakes to the south.
Species at Risk: Wolverine	Wolverine is classified as Special Concern (federally) and Threatened (provincially). Winter use of the baseline investigations area has been confirmed through track observations and run pole stations.
Species at Risk: Bats	Little Brown Myotis and Northern Myotis are classified as Endangered, both provincially and federally, and both have been identified as present throughout the baseline investigations area a (likely presence of foraging habitat). Suitable maternal bat roosting habitat may or may not be present in the PDA but is suspected. Potential hibernacula have also been explored in the baseline investigations area.
Species at Risk: Birds	SAR birds is selected as a VC due to the to the potential interactions with Project activities and the fact that Threatened and Endangered Species have specific individual and habitat protection under the provincial ESA. Additionally, outside of federal lands, some species are protected under the federal SARA via residence descriptions and are also considered under this VC heading. Species are considered under this VC: Eastern Whip-poor-will, Short-eared Owl, and Lesser Yellowlegs. Barn Swallow, while listed as Special Concern under the ESA, is listed as Threatened under the SARA, and has a Residence Description.

Table 1-2: Spatial Study Area Boundaries

Valued Component	Spatial Study Area	
	Local Study Area	Regional Study Area
Vegetation Communities	A 2 km buffer around the mine site and the centreline of the mine site access road of the PDA, and a 1 km buffer from the centreline of the transmission line.	Based on the Environment and Climate Change Canada (ECCC) recommendations and to consider patterns in land cover where assemblages of vegetation and wetlands occur relative to distinct environmental conditions, the RSA was determined based on consideration for watersheds, eco-districts, Bird Conservation Regions, Traditional Knowledge (when available), and any other guidance made available by ECCC pertaining to the development of ecologically defined study areas.
Wetlands		
Wildlife Habitat and Wildlife *Represented as SWH and the groups of migratory and non-migratory birds*		
Species at Risk: Bats		
Species at Risk: Birds		
Large Mammals (considered under the Wildlife and Wildlife Habitat VC)	A 10 km buffer around the mine site and the centreline of the mine site access road of the PDA, and a 1 km buffer from the centreline of the transmission line.	The RSA for large mammals is defined by the Churchill Range boundaries for Caribou. Caribou, Moose, and wolf drive the distribution and abundance of each other on the landscape and so are measured at the same scale.
Species at Risk: Caribou (Boreal population)	The PDA to assess local direct effects of the project footprint, the PDA plus a 500 m buffer to assess local-scale indirect effects on Caribou based on the ECCC disturbance management threshold. LSA: A 10 km buffer around the mine site and the centreline of the mine site access road of the PDA, and a 1 km buffer from the centreline of the transmission line to assess direct and indirect local effects at a scale broader than the PDA.	Habitat RSA (Churchill Caribou Range): The area designated for habitat effects assessment encompassing the Churchill Range boundary that is used by the Ontario Government to monitor and manage Caribou habitat. Population RSA: An area delineated for population effects assessment encompassing the Churchill, Berens, and Kinloch boundaries. The population RSA has evolved to the current delineation as determined through landscape analysis of historical (Ontario Government) and current (FMG) datasets (i.e., satellite telemetry data, winter aerial survey data, and existing Ministry of the Environment, Conservation and Parks (MECP) habitat data).
Species at Risk: Wolverine	Based on MECP comments, a 10 km buffer around the PDA will be evaluated as the LSA, including	A biologically relevant RSA of 50 km has been developed for Wolverine.



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LEGEND

- Project Location
- Town
- First Nation Reserve
- Northwestern Ontario Métis Community
- Highway
- Secondary Road
- Resource / Winter Road
- Railway

0 12.5 25 50 75 100 Kilometres

NOTES:
- Topographic information extracted from LIO, MNRF.

Datum: NAD83
Projection: UTM Zone 15N

N W E S

First Mining Gold

WSP

SPRINGPOLE GOLD PROJECT

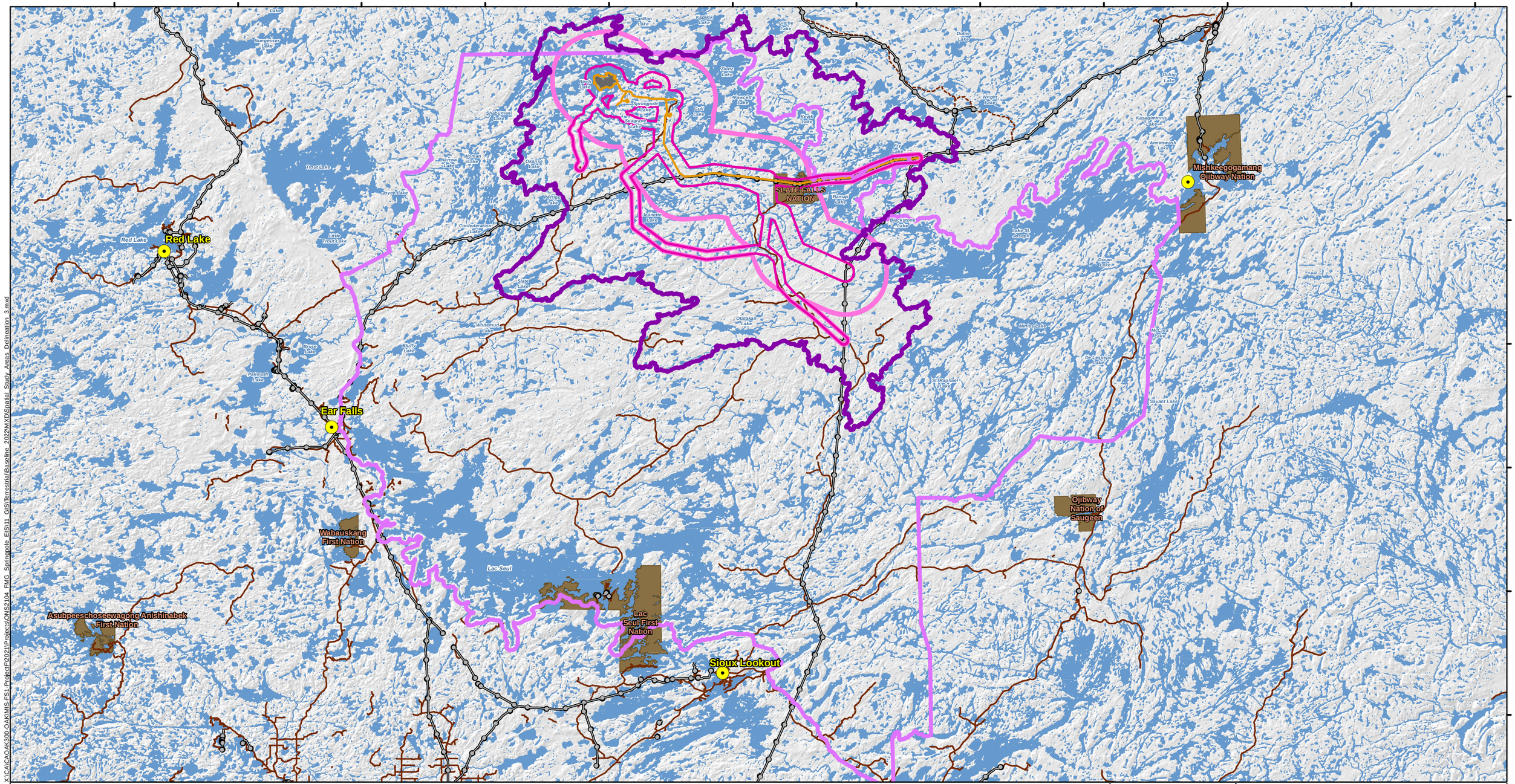
Project Location

PROJECT N°: ONS2104

FIGURE: 1-1

SCALE: 1:1,500,000

DATE: October 2024



LEGEND

- Proposed Mine Feature
- Project Development Area
- Local Study Area for Large Mammals
- Regional Study Area for Large Mammals
- Local Study Area for Vegetation Communities / Wetlands, Wildlife and Wildlife Habitat
- Regional Study Area for Vegetation Communities / Wetlands, Wildlife and Wildlife Habitat
- Town
- First Nation Reserve
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- Waterbody

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

Datum: NAD83
Projection: UTM Zone 15N

0 12.5 25 50 75 100 125 150 175 200 Kilometres

FIRST MINING GOLD

WSP

SPRINGPOLE GOLD PROJECT

Spatial Study Areas Delineation

PROJECT N°: ONS2104

FIGURE: 1-2

SCALE: 1:875,000

DATE: October 2024

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520000 540000 560000 580000 600000 620000 640000

5680000

5660000

5640000

Birch Lake
Springpole Lake
Shabumeni Lake
Grace Lake
Bertha Lake
Washagomis Lake
Woman Lake
Narrow Lake
Okanse Lake
Mukukee Lake
Found Lake
Philchub Lake
Wenasaga Forestry Road
Woman River
Ear Falls to Pickle Lake (E1C)
Rowe Lake
Confederation Lake
Fly Lake
Drake Lake
Perrigo Lake
One Island Lake
Fly Creek
Jubilee Lake
Slate Lake
Ben Lake
Lower Slate Lake
Kesaka Lake
Avis Lake
Curie Lake
Badrock Lake
Papaonga Lake
Ogani Lake
Whitemud Lake
Sharp Lake
Otatakan Lake
Roadhouse River
Root Lake
Polka Lake
Churchill Lake
Trist Lake
Lake St. Joseph
Wataynikaneyap Transmission Line
Dalgas Lake
Roadhouse Lake
Blackstone Lake
Austin Lake
Honderich Lake
Pembina Lake
Drum Lake
Teevin Lake
Jacknife Lake
Mousetrap Lake
Graniteboss Lake
Wright Lake
Strout Lake
Muskegsagagen Lake
Nabemakoseka Lake
Dorothy Lake
Cluderay Lake
Zionz Lake
Fawcett Lake
Gull Lake
Scanes Lake
Kezik Lake
Seagrave Lake
Deaddog Lake
Ruddy Lake
Bumpy Lake
Cook Lake
Christina Lake
Strachan Lake
Fry Lake
Wesleyan Lake
Senior Lake
Hailstone Lake
Margaret Lake
Latreille Lake
Sesikinaga Lake
Snelgrove Lake
Bamaji Lake
North Bamaji Lake
SLATE FALLS NATION
Brokenmouth River
Jeanette Lake
Polzin Lake
Buddell Lake
Coyston Lake
Wakeman Lake

LEGEND

- Proposed Mine Features and Project Component Alternatives
- Baseline Investigation Area
- Existing Road
- Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.

FIRST MINING GOLD

WSP

SPRINGPOLE GOLD PROJECT

Baseline Investigation Area

Datum: NAD83
Projection: UTM Zone 15N

0 10 20 40 60 80 100 Kilometres

N W E S

PROJECT N^{o}: ONS2104 | **FIGURE: 1-3**

SCALE: 1:325,000 | DATE: August 2024

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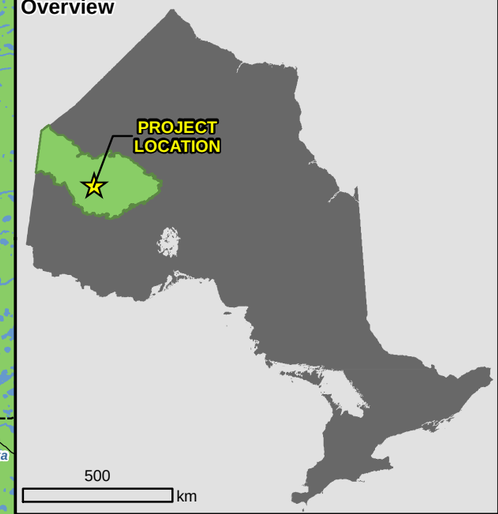
450000 500000 550000 600000 650000

5700000

5650000

Pikangikum First Nation
Nechigona Lake Marshes
Beekahncheekahmeeng Deebahncheekayweehn Eenahohnahnuhn
Goose Lake
Upper Goose Lake
Windfall Creek
Mamakwash Lake
Kamungishkamo Lake
Morris Lake
Cat Lake First Nation
Cat Lake
Weeskayahk Ohtahzhoganeeng
Sahkeesuhkuh Weesuhkaheegahn
Pringle Lake
Kirkness Lake
Nungesser Lake
Harding Lake End Moraine
Ecoregion 3S (Lake St. Joseph Ecoregion)
Bertrand Lake
Carillon Lake
Kapikik Lake
Gitche Lake
Meen Lake
Zionz Lake
Birch Lake
Fawcett Lake
Fawcett Lake
Trough Lake Patterned Peatland
Springpole Lake
Gull Lake
Obaskaka Lake
Coli Lake
Shabumeni Lake
Seagrave Lake
Bertha Lake
Kahnahmaykoosayseekahk
Little Vermilion Lake
Trout Lake
Trout Lake Conservation Reserve
Gull-Christina Conservation Reserve
Fry Lake
Annimwash Lake
Narrow Lake
Woman Lake
Okanse Lake
Joyce Lake
Perrigo Lake
Confederation Lake
Sesikinaga Lake
Jeanette Lake
SLATE FALLS NATION
Bamaji Lake
Pembina Lake Peatland Dune
Hammell Lake Conservation Reserve
Trout Lake Provincial Park (Nature Reserve Class)
Red Lake
Ranger Lake
Little Trout Lake
Uchi Lake
Blackstone Lake
Lake St. Joseph
Red Lake
Keg Lake
Brokenmouth River Conservation Reserve
Doran Lake
Gullrock Lake
Medicine Stone Lake
Slate Lake
Harth Lake Conservation Reserve
Otatakan Lake
105
Bruce Lake Conservation Reserve
Whitemud Lake
Bruce Lake
Bluffy Lake
Churchill Lake
Miniss Lake
Minchin Lake
St. Raphael Provincial Parl (Waterway Class)
Whitemud River
Longlegged Lake
Pakwash Lake
Pakwash Provincial Park (Natural Environment Class)
Wenasaga Lake
St. Raphael Lake
De Lesseps Lake
599
Whitemud Conservation Reserve
St. Raphael River
Vincent Lake
Ear Falls
Camping Lake
Lac Seul
Lac Seul Islands Conservation Reserve
Carling Lake
Hooker Lake

Ecoregion 3S (Lake St. Joseph Ecoregion) Overview



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LEGEND

- Project Location
- Proposed Mine Feature
- First Nation Reserve
- Town
- Existing Transmission Line
- Existing Highway
- Existing Road
- Existing Winter Road
- Watercourse
- Waterbody
- Conservation Reserve
- Protected Area - Far North
- Provincial Park
- ANSI
- Candidate ANSI
- Ecoregion 3S (Lake St. Joseph Ecoregion)

0 10 20 40 60 80 100 Kilometres

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

Datum: NAD83
Projection: UTM Zone 15N

N W E S

First Mining Gold

WSP

SPRINGPOLE GOLD PROJECT

Landscape Overview

PROJECT N°: ONS2104

FIGURE: 1-4

SCALE: 1:645,000

DATE: October 2024

2.0 METHODS

The Sections 2.1 to 2.9 outline the methods for completing terrestrial background and field investigations completed by Wood Environment & Infrastructure Americas, amalgamated into WSP Canada Inc. and WSP in 2021, 2022, 2023, and 2024.

To characterize the natural environment, surveys were completed at various times of the year to target appropriate windows for specific species. Vegetation was surveyed to inform Ecological Land Classification (ELC) delineation and document plant SAR locations. Breeding bird surveys, acoustic bat surveys, and bat maternity roosting and hibernaculum habitat assessments were completed to document bird and bat SAR and habitat distributions. Autonomous recording units (ARUs) were deployed to document bird SAR, including nocturnal bird species in remote areas. Winter aerial surveys were undertaken to assess distribution and abundance of mammal SAR (Caribou and Wolverine). Moose, Grey Wolf, and the incidental distribution of select small and medium-sized fur-bearer species; raptor stick nests were also documented during aerial surveys. During all surveys information on non-target species was collected opportunistically. For example, amphibian, reptile and insect observations were documented when encountered during breeding bird surveys, and vegetation was documented in all survey types.

A summary of completed field investigations is provided in and Table 2. Land cover and Forest Resource Inventory (FRI) coverage areas used for field planning are presented in Figure 2–1 and Figure 2–2. Aerial transects and station locations are also presented in Figure 2–3 to Figure 2–17 and Table 2-5. Note that all species names contained in this report are referred to by common English names; scientific names are provided in Attachment 1.

2.1 Desktop Screening

Screening of available background information from existing studies, plans, databases, and other sources was completed. The desktop screening assisted in the preliminary determination of existing Natural Heritage Features and additional sensitivities. Data also included potential occurrences of species of conservation concern, including SAR and provincially rare species. Relevant background queries, studies, and reports include:

- Land Information Ontario / GeoHub (e.g., Aquatic Resource Area);
- Natural Heritage Information Centre (NHIC);
- Ontario Nature Reptile and Amphibian Atlas (Ontario Nature 2020): surrounding squares for potential distribution;
- Ontario Breeding Bird Atlas (OBBA; Cadman et al. 2007), queried for all of Region 44: Big Trout Lake;
- *Atlas of Mammals of Ontario* (Dobbyn 1994);
- Cat Lake – Slate Falls Community Based Land Use Plan "Niigaan Bimaadiziwin" – A Future Life (Cat Lake First Nation and Slate Falls Nation 2011);
- Wabauskang Traditional Knowledge and Use in the area of the Springpole Gold Access Corridor Project (Morin et al. 2014);
- Traditional Knowledge and Land Use Study for the First Mining Gold (FMG) Springpole Mine Project. Completed by Know History Inc. Historical Services (Métis Nation of Ontario 2021);
- Lac Seul Forest 2011 to 2021 Forest Management Plan;

- *Gold Canyon Resources Project 2011 Terrestrial Baseline Study Draft Report* by DST Consulting Engineers Inc. (DST 2012);
- *Gold Canyon Resources Springpole Lake Project 2012 Terrestrial Wildlife Baseline Study Draft Report* by DST (2013a);
- *Springpole Gold Project Wetlands and Vegetation 2012 Baseline Study Report Draft Report* by DST (2013b); and
- *Baseline Terrestrial Biology Summary Report for the Springpole Gold Project First Mining Gold Corp.* by NorthWinds Environmental Services (NWES 2020).

The NHIC database uses a 1 by 1 km system. The OBBA and Ontario Nature Reptile and Amphibian Atlas use a 10 by 10 km system whereby a list of species documented within a specific square can be generated. The list of mammals that may be found in the baseline investigations area was similarly generated; however, the *Atlas of Mammals of Ontario* is not available in a database, and as such, the potential presence of these species within the 10 by 10 km squares was extrapolated based on the *Atlas of Mammals of Ontario* documentation (Dobbyn 1994).

Existing baseline studies have included spatial coverage and characterization in areas directly within and immediately adjacent to the existing camp. As with all background resources, existing information is incorporated into the overall presentation of baseline information where applicable.

2.2 Site Selection

The available FRI data were used to inform site selection to conduct vegetation studies. However, FRI data were not available for all portions of the RSA at the time of study design. In September 2023, updated 2021 FRI was provided by the Ministry of Natural Resources (MNR). Figure 2–1 shows the FRI used in the development of the field programs and previous results. Figure 2-2 shows the boundaries of the 2021 FRI for four Forest Management Units (Caribou, Cat Lake, Lac Seul, Trout Lake). The new FRI increases coverage and updates the ecosites, as well as disturbances. The new 2021 FRI has been used to update the figures produced in this report and will be used for the Environmental Impact Statement (EIS)/EA.

Vegetation sites were selected in the PDA, along the access road and transmission line alternatives, and in representative habitats within 1, 5 and 10 km buffers. Representative habitats included documented existing disturbances (i.e., forest fire, recent linear disturbance, and forestry activity). In the field, surveyors targeted these predetermined locations and refined exact locations based on helicopter access (i.e., ability to land and exit safely as dictated by pilots) and site conditions. Additional plots were added or targeted if underrepresented or unique communities were discovered. Breeding bird survey sites were selected using a randomized approach stratified across habitats in ArcMAP. Randomly generated points were removed from areas of landowner limitations, unsafe access, and remote access (i.e., helicopter access was limited).

Consultation with provincial and federal authorities and Indigenous communities has been conducted to inform the study design.

2.3 Vegetation Communities and Wetlands

In 2021 and 2022, vegetation community surveys were completed throughout the RSA (Figure 2-3). In 2021, targeted surveys were conducted during the third field visit (August 26 to September 7, 2021) and in 2022, targeted surveys were conducted each survey period, in the following locations:

- Wetlands expected to be directly impacted by a proposed component of the Project (i.e., focused around the LSA and RSA) (Figure 2-4); and

- Other sites as required to achieve adequate coverage of all major vegetation communities in the LSA and RSA.

Vegetation baseline studies describe the existing conditions of the flora and vegetation communities in the study area. Vegetation communities inform wildlife habitat delineation, and therefore, the larger wildlife habitat RSA was applied during field surveys. Vegetation survey plots were targeted to achieve sufficient coverage of all major vegetation communities with a focus on the Preliminary Project Boundary. Vegetation community types were classified using the Ontario ELC protocols of the *Ecosites of Ontario Operational Draft* manual (Ecological Land Classification Working Group 2009) for Boreal ecosites.

Within each vegetation community assessed, the following information was recorded:

- A complete list of all plant species observed, including the relative abundance of each species;
- A listing of the dominant plant species in the vegetation layers of the community (canopy, sub-canopy, understory, and ground layer);
- A general classification of the site into broad habitat categories (e.g., forest, fen, marsh); and
- Other relevant information as applicable.

Vegetation sampling identified the dominant vegetation species composition at each survey location, and the location was assigned a Boreal ecosite code (and not a vegetation or substrate code). Generally, FRI boundaries were not altered at this scale as the area is very homogenous and there are few hard lines between communities. Additionally, components such as vegetation cover, substrate, and moisture occur in a gradient (Ecological Land Classification Working Group 2009); therefore, altering boundaries was deemed unnecessary. Boundaries are instead used to understand where the sampled site fits in relation to other sampled sites and to characterize the various communities in the baseline investigations area likely to be affected. Field sampling is also used to inform the extent of wetlands likely to be affected by Project activities. Wetlands are considered according to their size, type, description of their function (e.g., ecological, hydrological, wildlife, socioeconomic), and species composition (Section 2.3.1).

The terminology used to define vegetation layers, understanding that some layers may not be present within a vegetation community sampled, are as follows:

- **Canopy:** consists of tall vegetation that reaches the light first, typically composed of tall trees (in a forest community).
- **Sub-canopy:** includes vegetation growing just under the canopy, vegetation that receives filtered sunlight, typically composed of trees and tall shrubs (in a forest community).
- **Understory:** includes vegetation growing below the sub-canopy, typically composed of both tall and low-growing shrubs (in a forest community).
- **Ground layer:** consists of the vegetation that is closest to and covers the ground, typically composed of herbaceous vegetation.

By defining the Boreal ecosite, the presence of rare, sensitive, and/or significant vegetation communities and/or species can be identified. ELC communities were cross-referenced with provincially significant vegetation communities as identified in the *Significant Wildlife Habitat Technical Guide* (OMNR 2000). In total, 318 vegetation community surveys were completed throughout the RSA in 2021 and 270 were completed in 2022.

2.3.1 Significant Wetlands

Wetlands identified in the RSA were evaluated for significance via a wetland functions assessment. A wetland functions assessment considers key information on wetlands important for the EA of the proposed Project (Hanson et al. 2008). The wetland functions assessment is adapted from assessment protocols outlined within the *Ontario Wetland Evaluation System Northern Manual* (MNRF 2022) and reflects the discourse on wetland evaluations from the Canadian Wildlife Service Technical Report Series document *Wetland Ecological Functions Assessment: An Overview of Approaches* (Hanson et al. 2008).

The wetland evaluation procedure defines, identifies, and measures wetland functions and values. Wetland functions are natural processes (physical, chemical, biological) associated with wetlands independent of the benefits to humans. Wetland values reflect ecosystem services that wetlands provide to humans and the societal values placed upon these services (Hanson et al. 2008). The *Ontario Wetland Evaluation System Northern Manual* (MNRF 2022) considers human cultural significance (a wetland value); however, the focus of this evaluation is to assess wetland ecological functions rather than values. As this evaluation is intended to inform the EA process, not just significance, wetland value is not considered as the wetland value assessment is inadequate for evaluating environmental impact reduction and compensation measures or prescribing compensatory mitigation requirements for no net loss of function. Note that the exclusion of wetland values from the evaluation is not to say that wetlands on site are not socially, culturally, or aesthetically important.

Criteria included wetland size, dominant wetland type – rareness, wetland class richness, hydrologic setting, biodiversity, proximity to other wetlands, and proximity to key habitats. The determination of significance is based on the functions assessment and ranks wetlands relative to one another. Based on the results of the significance evaluation, wetlands scored in the 99% percentile were deemed "Significant." Additional details regarding the methods, evaluation criteria and limitations are presented in the Federal Environment Assessment Wetland Significance Evaluation Memo (Attachment 5).

2.4 Bird Surveys

Bird surveys, including breeding bird surveys, ARU surveys, marsh bird surveys, crepuscular bird surveys, nocturnal owl surveys, stick nest surveys, and migratory bird (including migratory waterfowl) surveys, were completed to describe abundance, distribution, and life stages of birds and their habitat that are found or are likely to be found, in the RSA. Year-round migratory bird use of the area is also informed based on preliminary data from existing sources and current surveys. The following groups of migratory and non-migratory birds were considered:

- Forest birds;
- Raptors;
- Shorebirds;
- Waterfowl; and
- Bog/fen, wetland birds.

2.4.1 Breeding Bird Surveys

Breeding bird survey sites were selected using a randomized approach stratified across habitats in ArcMAP. Randomly generated points were removed from areas of landowner limitations, unsafe access, and remote access (i.e., helicopter access was limited).

In 2021, two teams of two observers each (four observers total, each team completed surveys at a different breeding bird area each day) completed point count bird surveys on each of the two breeding bird site visits. Breeding bird surveys were conducted at 21 areas within the baseline investigations area (Figure 2–5): 13 impact areas located along the proposed transmission line routes and road alternatives, and 8 reference areas located 2 to 10 km away from these routes. At each location, between 8 and 13 point count stations were visited, for a total of 228 point count stations. Most of these stations were surveyed twice, once on each of the two breeding bird site visits. However, due to the logistical challenges of working with a helicopter in remote areas, a few stations were visited only on one of the two trips (IMP-G30, IMP-H32, IMP B28, IMP-J31, IMP-F31, IMP-C30, REF-B31, REF-C32, REF-G33, REF-C33). Overall, 220 point counts were completed on the first visit and 225 on the second visit.

In 2022, one team of two observers (two observers total) completed bird stations on each of the two breeding bird site visits. Breeding bird surveys were conducted at 13 areas within the baseline investigations area (Figure 2–5): 9 impact areas located along the proposed transmission line routes and road alternatives, and 4 reference areas located 2 to 10 km away from these routes. At each location, between 8 and 15 point count stations were visited, for a total of 141 point count stations. Most of these stations were surveyed twice, once on each of the two breeding bird site visits. However, due to logistical challenges (e.g., varying water levels, covid outbreaks), a few survey stations were visited only on one of the two trips (IMP-H, IMP-HH, IMP-PP, REF-B, REF-DD, REF-E, REF-QQ). Overall, 133 point counts were completed on the first visit and 71 on the second visit.

In both years, surveys began sometime after dawn, at the earliest time possible dependent on the lighting conditions being suitable for safe helicopter use. Surveys were generally completed five hours after sunrise and sometimes extended to accommodate fieldwork in remote access sites. Point count surveys were cancelled or postponed if weather conditions were not optimal (winds above 20 kilometres per hour [km/h] or light rain). Surveys were conducted for 10 minutes at each station and all birds heard or observed were recorded at intervals of 0 to 50 m, 50 to 100 m, more than 100 m and flyovers. In addition, birds were recorded at intervals of 0 to 3 minutes, 3 to 5 minutes, and 5 to 10 minutes. Each bird was recorded once and mapped on the field data sheets so there was no duplication of individual birds, as best feasible. Breeding activity was also recorded following the OBBA (2021) *Guide for Participants*.

2.4.2 Breeding Bird Survey Analyses

Bird densities were modelled from point count survey data accounting for species-specific detection probability following methods by (Sólymos et al. 2013). Detection probability was modelled as a function of survey time, weather and habitat, and density was modelled as a function of habitat. Measures were also taken to examen the robustness of the final density models and whether more accurate density estimates could be obtained through additional surveys.

2.4.2.1 Covariates

Several temporal, climatic and habitat covariates were used to model density. Temporal covariates included the time since sunrise that the survey was conducted (TSSR), the survey day (Day), and the survey day squared (Day^2). Sunrise time was obtained from the nrc.canada.ca sunrise calculator. Weather covariates included humidity (%), amount of precipitation (mm), windspeed (km/h), and average temperature (°C). Weather for each point count survey was calculated as the average weather measured by the three Environment and Climate Change Canada (ECCC) weather stations nearest to the Project site (Ear Falls AUT, Pickle Lake A, Red Lake A) during the hour in which the survey was conducted. Several steps were followed to obtain the final habitat variables used in the density analysis. First, the Far North Landcover layer obtained through the Ontario Geohub (https://geohub.lio.gov.on.ca) was used to obtain the proportion occupied by each

land class at two spatial scales: 1) within a 150 m radius circle around each point (local scale), and 2) within a 5 km radius circle around each point (landscape scale). These scale sizes are comparable to those used by Mahon et al. (2016) on data from the Boreal Avian Modelling Project. The resulting habitat variables were simplified by summing the proportions of similar land classes to form five main habitat categories for each spatial scale: 1) Coniferous Forest; 2) Deciduous/Mixed Forest; 3) Wetlands; 4) Sparse Treed Habitat; and 5) Treed Habitat. Each habitat category was composed of the following land classes:

1. Coniferous Forest: Coniferous Treed;
2. Deciduous/Mixed Forest: Deciduous Treed, Mixed Treed;
3. Wetlands: Open Bog, Open Fen, Coniferous Swamp, Freshwater Marsh, Thicket Swamp, Treed Bog, Treed Fen;
4. Sparse Treed: Sparse Treed;
5. Treed: Coniferous Treed, Deciduous Treed, Mixed Treed, Treed Bog, Treed Fen, Coniferous Swamp.

The Sparse Treed habitat category was excluded in all subsequent analyses as it composed only 2% of the total habitat coverage.

Additional habitat covariates included the proportions of riparian habitat, mature forest, and disturbed habitat at both spatial scales, as well as the distance from the survey point to the nearest water source. The proportion of riparian habitat at the two spatial scales was calculated as the proportion of area occupied by a 100 m buffer around "Clear Open Water" Far North Landcover features. To improve the distribution for this covariate, a 200 m radius was used to define the local scale instead of 150 m. The proportion of mature forest (forests more than 60 years old) at each spatial scale was obtained from the FRI forest age attribute. Disturbed habitat included roads and other areas with human activity, as well as areas impacted by harvest activities and forest fires. Disturbed habitat was compiled by merging the Ontario Roads Network layer, the MNR Roads layer, FRI Harvest and Fire polygons occurring after the year 2000, and all Far North Landcover disturbance features (including Community/Infrastructure). Distance to water was calculated as the shortest distance from a point to a "Clear Open Water" Far North Landcover feature. All spatial calculations were conducted in R.

Principal components analysis and a Pearson correlation matrix were used to refine the list of habitat covariates included in analyses. The first three axes of the ordination cumulatively accounted for 65.4% of the variance in the data. Although habitat was quantified at more than one spatial scale to account for the scale dependency in habitat selection of many species (Mayor et al. 2009; McGarigal et al. 2016), landscape scale covariates all had similar loadings to their local-scale counterparts. Consequently, only the local-scale variables were retained for modelling bird densities. While Mahon et al. (2016) used canonical correspondence analysis in avian community modelling to inform variable selection and facilitate model building, canonical correspondence analysis and principal components analysis are both methods for reducing data dimensionality by visualizing relationships among variables. None of the remaining variables had correlations above $|r|=0.6$. All numeric variables were scaled for analyses and, using the cut-off from Van Wilgenburg et al. (2017), only species with more than 15 detections were retained for density modelling.

2.4.2.2 QPAD Offsets

The QPAD approach described in (Sólymos et al. 2013) and Solymos (2019) was used to model avian densities. This method is named after the variables it employs to estimate density (with 'D' representing density). Offsets were generated and included in the density models to account for the probability of detecting each species. Detection probability varies as a function of singing rate (phihat) and the distance from the observer at which the animal can be detected (detection radius; tauhat). The offset was calculated as $Offset = \log(A \times P \times Q)$ where:

- $A\ (detection\ area) = \pi \times tauhat^2$;
- $P\ (singing\ probability) = 1 - e^{-\text{maximum survey time} \times \text{phihat}}$
- $Q\ (perception\ probability) = 1$

Q was set to "1" since the offset was calculated for an untruncated maximum detection distance (effective detection radius) in which all calling birds would be detected under perfect conditions (Solymos 2019).

Phihat and tauhat were respectively obtained from the coefficients of removal and density models conducted on the avian observation data by conditional maximum likelihood estimation ("cmulti" function of the R package "detect"). Removal sampling was performed using three time intervals during which an individual bird would have been detected for the first time during the survey: 0 to 3 minutes, 3 to 5 minutes and 5 to 10 minutes. Covariates included in the removal models were TSSR, Day, Day^2, Humidity, Precipitation, Windspeed, and Temperature. Distance sampling was achieved using three intervals for distance from the observer: 0 to 50 m, 50 to 100 m and more than 100 m. Covariates tested in the distance models included the same weather covariates from removal models, the final habitat covariates described in the previous section, and the identity of the principal observer conducting the survey.

2.4.2.3 Density Models

Generalized linear mixed models were used to estimate density as a function of year, habitat and whether the observation was made inside or outside the LSA (hereafter referred to as "Treatment"). Model selection followed a hierarchical process where an initial comparison of null models with either a "poisson" or "negative binomial" distribution was used to identify the distribution family to carry forward in all subsequent models. Secondly, the importance of Year was tested by comparing models with and without Year. If including Year provided a better model fit to the data, it was carried forward in all subsequent models. Finally, a series of eight models were compared to test the effect of habitat on density. Except for one model that contained no habitat variables, all models contained two to three habitat variables. Combinations of habitat variables were selected based on typical or expected habitat preferences for potentially occurring species. An information-theoretic approach was used to select the top model by Akaike information criterion (Burnham and Anderson 2002). To evaluate the goodness-of-fit of the best-fitting models, tests for normality of residuals, zero inflation, and presence of outliers were conducted with R package "DHARMa" (Hartig 2019). Model fit was evaluated based on adjusted probability (p) values (at α=0.01) and on the size of model coefficient standard errors. When a species model did not meet the goodness-of-fit criteria, the modelling process was repeated for that species using log-transformed covariates for covariates that had skewed distributions. If the final model for a given species still did not pass the goodness-of-fit tests, it was labelled as having a "questionable" fit. All models contained the survey route (series of consecutive point count stations; "Route") and the individual point count station ID ("Point") as random intercepts.

2.4.2.4 Model Validation

All models were validated by k-fold validation where model performance was measured with the root mean square error (RMSE; a measure of prediction error). This method was used due to its computational efficiency and accuracy compared to "leave-one-out" cross-validation (James et al. 2021). Data were split into a training set (80% of the data) and a testing set (20% of the data). Cross-validation with a fold of k=5 was applied to the training set to obtain an average RMSE (referred to here as the expected RMSE). The expected RMSE and its standard deviation was plotted against the RMSE calculated from the testing set (observed RMSE). Concordance between the expected and observed RMSE, as well as a low standard deviation of the expected RMSE, is indicative of a more stable and generalizable model (i.e., not overfit).

2.4.2.5 Density Estimation

The average density for each species predicted by the models across both years and treatments at average levels of the habitat covariates was plotted. Confidence intervals were obtained through hierarchical bootstrapping (Sólymos et al. 2013), which weighted resampling by the number of observations obtained from each sampling route (i.e. the random factor in the density models). The data were iteratively resampled, and a new QPAD detection probability offset was modelled and calculated. Final models were refit to the subsampled data with the new offsets, and new estimates/predictions were obtained based on the refit model. Recalculating the offset at each iteration allowed for propagation of the detection probability error in the final confidence estimates (Sólymos et al. 2013). The process was repeated 1,000 times for each species, and 95% confidence intervals were obtained from the 0.025 and 0.975 quantiles of the model prediction / estimates.

2.4.2.6 Power Analysis by Simulation

Simulations were conducted to evaluate how the power to detect a change from baseline in the density within the LSA in a hypothetical new year of sampling varied according to sample size and types of habitat sampled. Power was calculated at effect sizes ranging from -0.5 (50% reduction in density) to 0.5 (50% increase in density). Power was also calculated for four levels of sampling in the new hypothetical year: 5, 10, 15 and 25 routes where each route was composed of five point-count stations. Each sampling level represented 1) the number of routes revisited from previous routes within the LSA; 2) the number of revisited routes outside the LSA; 3) the number of simulated new routes within the LSA; and 4) the number of simulated new routes outside the LSA. For example, sampling at level "5" represented an approximate sampling effort of 20 routes (100 points) in a hypothetical new year (five routes from 2021–2022 inside the LSA, five routes from 2021–2022 outside the LSA, five routes for a new year inside the LSA, and 5 routes for a new year outside the LSA). If the number of available points to revisit was insufficient to meet the targeted sampling level, the maximum number of old points was used. Although sampling of old points was conducted without replacement, new points were generated by resampling from the dataset with replacement to meet the targeted sampling levels.

Two rounds of surveys were simulated beginning on May 25, where each round lasted a maximum of 18 days. The length of each survey was set to 10 minutes. TSSR was allowed to vary between 0 and 500 seconds, and each simulated route was randomly attributed a series of TSSR values (one for each point) from a list of possible survey times dictated by the sampling scheme. Although a survey time of 10 minutes per point count leaves no time for commuting between surveys, ensuring flexibility in survey start date and time was necessary to simulate the higher sampling efforts. Weather for a given simulated point and for a given simulated survey time and round was resampled from the original data filtered for the targeted survey time and round. Power was also evaluated for three levels of habitat where the simulated survey effort in a given level placed greater focus on one of three habitat groupings. Groupings were derived by using a k-

means cluster analysis to cluster the habitat data underlying the model into three groups. Each cluster represented a distinct habitat group driving density of the given species. Simulations were conducted by resampling the original data within each habitat cluster according to the following scheme: 1) 60% from Cluster 1, 20% from Cluster 2, and 20% from Cluster 3; 2) 20% Cluster 1, 60% Cluster 2, and 20% Cluster 3; and finally 3) 20% Cluster 1, 20% Cluster 2, and 60% Cluster 3.

The original data and simulated data were then combined for modelling. To include the detection probability uncertainty in each simulation, a new set of QPAD models was randomly selected from a set of 500 QPAD models generated during the bootstrapping step used to estimate confidence intervals for density. New QPAD offsets were calculated from the QPAD models for the new dataset. The original model with the added interaction between Treatment and Year was run with the new dataset and *p* values for the effect of interest were extracted to estimate power. Confidence intervals were calculated for the predicted density inside and outside the LSA at the reference levels of the predictor variables averaged across all years. Power and confidence intervals at each simulated level of effect size, sample size, and habitat were plotted. All analyses were conducted in R.

2.4.3 Crepuscular Bird Surveys

Crepuscular bird surveys followed protocols for Eastern Whip-poor-will (EWPW) and nightjars from the *DRAFT Survey Protocol for Eastern Whip-poor-will (Caprimulgus vociferus) in Ontario* (OMNRF 2014a) and the *Canadian Nightjar Survey Protocol 2019* (Wildlife Research 2019) program. Surveys were completed in the active period for crepuscular birds (June 15 to July 15; OBBA 2021b) around full moons (the full moon was May 26, June 24, and July 23, 2021, and May 16, June 14, and July 13, 2022). In 2021, ARUs were in place and recording from June 1 to July 1 (removed due to fire risk). ARUs recorded from 30 minutes before sunset until three hours after sunset. In 2021, it was unknown if Eastern Whip-poor-will was present in the baseline investigations area, and therefore ARUs were placed in areas generally acceptable for crepuscular species (i.e., Common Nighthawk).

In 2022, ARUs were deployed specifically in EWPW potential habitat (mapped using a Habitat Suitability Index [HSI]; Section 2.4.3.1) after positive results were obtained in 2021. In 2022, ARUs were deployed and recorded for EWPW from May 7 to August 7, capturing beyond the window of May 18 to June 30 in the draft 2014 survey protocol (OMNRF 2014a). ARUs were set to record 30 minutes before sunset until 90 minutes after sunset and 60 minutes before sunrise to 60 minutes after sunrise, capturing the draft 2014 survey protocol window of 30 minutes after sunset and continuing while the moon is still visible as well as "If conditions are favourable, surveys may extend until as late as 15 minutes before sunrise."

The draft 2014 survey protocol was developed for regions in southern and central Ontario (previously thought to be the areas of core occupied territories for EWPW) where safe road and walking access is prevalent:

- "The survey protocol uses standardized methods, including point counts in typical habitat along a driving or walking route."
- "The survey protocol uses roadside point counts, involving timed stops at a series of predetermined points along a route."

The Project area has very limited all season road access, providing limited access to the broader distribution of suitable habitat for EWPW. The logging road which may provide access to the southwest corner of the study area is not safe to survey from at night as it is narrow and logging trucks frequently use it to transport large loads. In addition, ECCC direction (Annex August 2021) recommends ARUs as a recording method for surveying EWPW as they allow deployment and detection of species in areas and during times when point counts could be difficult, unsafe, or impractical for human observers to conduct. Recent publications also

support the use of ARUs to document EWPW (Knight et al. 2022; Hannah et al. 2022). Due to these factors and the success of ARUs in 2021, ARUs were used in 2022.

EWPW surveys were undertaken in accordance with the draft 2014 survey protocol (OMNRF 2014a) to the extent practicable. This included following directions on timing of surveys relative to the moon phase, having three survey periods (by having an entire month of recording), recording during recommended time windows, and targeting suitable habitat. Following the protocol, suitable habitat was defined as "relatively open, coniferous, deciduous or mixed woodlands and in forest habitats, particularly along the edges of habitats where there is exposed rock, clearings, younger forest or wetlands."

2.4.3.1 Eastern Whip-poor-will Habitat Mapping

EWPW habitat was modelled using the vegetation and habitat surveys in 2021 and 2022, as well as a HSI model that was developed by WSP in conjunction with the MNR (prior to the Ministry of the Environment, Conservation and Parks [MECP] adopting the ESA). In early June 2022, habitat was field confirmed (Figure 2–6) with a focus on the fire disturbance areas. The habitat mapping was used to identify the distribution of suitable habitat for EWPW in the area, irrespective of whether the species has been confirmed in all locations with quality habitat. In addition to habitat modelling, EWPW records will be used to provide a Category (i.e., Category 1, 2, or 3) mapping quantification when applicable.

Suitable EWPW habitat was mapped using specific ELC codes (Attachment 3) that met one of the following two criteria:

- Stands aged 10 to 40 years with dense forest cover (but sparse to moderate understory), within 30 m of open areas (where spare to moderate forest cover is less than 75%); and
- Stands aged 10 to 30 years with sparse to moderate forest cover (and sparse to moderate understory) (where sparse to moderate understory is less than 50%).

Suitable EWPW habitat was also mapped using open areas with FRI data, including the following aggregates:

- Developed Agricultural Land (DAL);
- Grass and Meadow (GRS);
- Small Island (ISL);
- Unclassified (UCL);
- Brush and Alder (BHS);
- Open Wetland (OMS); and
- Rock (RCK).

2.4.4 Owl Surveys

Due to the territorial behaviour of owls, songs broadcast within an owl's territory may elicit a vocal or visual response by the resident owl to defend its territory against an intruder. Survey methods are adapted from various sources including the *Ontario Great Gray and Boreal Owl Survey Instruction Manual* (OBBA 2021). Surveys were completed using callbacks, as is the preferred technique to census secretive, nocturnal birds. Surveys were completed on calm nights with good visibility and little precipitation. Winds should be less than 19 km/h (Beaufort 1-3) and temperatures above -15°C. Surveys were started 30 minutes after sunset in clear and calm weather to allow for ideal listening conditions for owls. Each survey started with two minutes of silence to listen for calling owls, followed by the playing of owl calls in an attempt to elicit an

auditory territorial call from owls in the area. After each owl call, another one-minute silent listening period was observed. Owl playbacks were made in the following order: Boreal Owl, Northern Saw-whet Owl, Barred Owl, and Great Gray Owl, based on findings from 2012 and 2013. A final one-minute listening period ended the survey. A JBL Clip 3 Portable Bluetooth speaker was used to play calls.

Surveys at seven stations on February 24 to March 6, 2022, were conducted for resident owls and 12 stations on May 4 to May 10, 2022, were conducted for breeding owls (Figure 2–7). All owl surveys occurred in the area of the existing camp. Stations were accessed on foot, by snowmachine, or by other motorized transportation, and access was limited to areas with well-known and existing trails. Accessing remote stations was not feasible as helicopters were required to be grounded during the night.

2.4.5 Stick Nest Surveys

Species that typically use stick nests (e.g., raptors) have high fidelity to nests and areas. They will return to them if nests are not destroyed (e.g., fire disturbance, wind throw, or anthropogenic disturbance). Raptor nest surveys are preferably completed prior to the return of individuals and the start of nesting season so as to not disturb nesting birds.

Prior to the aerial survey in 2021, provincial data on known raptor stick nest locations and colonial tree nesting locations, as well as data from previous surveys, were mapped. Aerial surveys were then conducted to visit each previously known location to confirm if the nest was extant and/or active. Additionally, the edges of larger waterbodies and along large rivers were specifically surveyed for stick nests. When nests were detected, they were classified (i.e., probable species), photographed (if possible), and geolocated. The classification was determined based on nest size, material type and size, and placement within the tree/structure. Some nests were indiscernible, and so the closest potential identification was applied, or sometimes it was only classified as a stick nest.

The aerial transects occurred between February 27 to March 7, 2021, and February 24 to March 6, 2022, during daylight and good to fair weather conditions. Transects were flown at approximately 120 km/h and the pilot was instructed to speed up, slow down, fly lower or higher, and circle as needed to scrutinize the area. A three-person crew (plus pilot) consisting of skilled biologists covering each side of the helicopter and a third biologist with navigation / data recording / observation experience was used to maximize observations. All observations (and tracks) were recorded using a handheld GPS and the Avenza Maps application.

2.4.6 Migratory Birds

Migratory bird surveys included waterfowl stopover and staging areas, colonial nesting bird breeding habitat, and ARU recordings (ARU methods are discussed in Section 2.4.7). Aerial surveys were completed to document these habitat types. For waterfowl stopover and staging areas, ponds, marshes, lakes, bays, coastal inlets, and watercourses are used during migration, specifically in areas where ice-off occurs first. These locations were first mapped in a desktop effort and then visited during May surveys and again in June to determine changes in use. Observers used binoculars from the helicopter to document species and number of individuals at these locations Figure 2–8).

Likewise, aerial surveys were used to identify colonially nesting bird breeding habitat. This habitat is divided into three types: cliff, tree/shrub, and ground. To document the cliff type, the cliff along Springpole Lake was surveyed for any evidence (e.g., birds, nests, or whitewash) of use by swallows and colonially nesting birds. The tree/shrub type was surveyed by looking for heronries and groups of stick nests. The ground type was captured during breeding bird surveys.

2.4.7 Autonomous Recording Units

ARUs were used to capture data on all calling species but specifically for SAR, migratory songbirds, and marsh birds (wetland locations) as the study area is remote and access is difficult / relies on helicopter support. Wildlife Acoustics Song Meter Micro recorders were used as ARUs in the RSA. In 2021, ARUs were deployed in 33 locations across the RSA (Figure 2–9) from mid-June to early July; ARUs were not left beyond the summer period to avoid the destruction of units due to forest fires. In 2021, ARUs were deployed for a period of 7 to 10 days, after which most were moved to a new area for another bout of recording.

In May 2022, 30 "Amphibian and Marsh Bird" ARUs were deployed in marsh wetlands across the RSA to remain in place until August 2022. Of these 30 units, 3 were switched to new locations in June and 1 unit (ARU36) was damaged after five days of recording. Lastly, the unit at MB1_ARU 34 malfunctioned and was replaced in June with a new unit.

In June 2022, three Amphibian and Marsh Bird ARUs were retrieved and moved to new locations and an additional 25 ARUs were deployed in other locations to document migrating birds. Of these 25, 8 were deployed in locations to specifically target EWPW (unit EWPW-4 failed to record). In July 2022, 13 additional ARUs were deployed to target several new locations including additional EWPW habitat.

ARUs were programmed to record from

- 60 minutes before sunrise to 60 minutes after sunrise; and
- 30 minutes before sunset to 90 minutes after sunset.

The ARUs were set to a sample rate of 48,000 hertz (Hz) and a gain of 18 decibels (dB). The detectors were mounted on tree trunks or large shrubs at an average height of 1.6 m or higher, with the microphones positioned away from potential obstacles and angled away from prevailing winds to the extent feasible (Photo 1, Attachment 2). Lastly, when analyzing data from ARUs, all ARUs were queried for target species, not just ARUs placed in specific locations.

2.4.7.1 Autonomous Recording Unit Data Analysis

Modelling of avian acoustic activity from ARU surveys was conducted to supplement results from human point count density modelling. While absolute density is not thought to be estimable from single-microphone ARU data (Dawson and Efford 2009; Van Wilgenburg et al. 2017), singing activity can serve as a measure of current relative abundance and area utilization and can be used to measure downstream project impacts.

Species Classification

Data from ARUs were analyzed by first using an automated classifier to detect avian vocalizations within the recordings and classify them to species. The BirdNET automated classifier was leveraged for this task and was accessed and implemented through the National Park Service NSNSD "R" package, NSNSDAcoustics, following the National Park Service's suggested workflow (Kahl et al. 2021; National Park Service 2024). The model used was BirdNET_GLOBAL_3K_V2.2_Model_ FP32.tflite. The location of the Project (coordinates, Latitude 48.170294, and Longitude -79.766916) was specified, allowing BirdNET to generate a list of possible species from which to base the classification decisions. BirdNET was set to decide which internal species list to use based on each specific survey week. The sensitivity of the classifier was set to 0.5. The overlap was set to 0, meaning BirdNET did not classify the same call more than once. The minimum species occurrence frequency threshold was set to 0.01, which made the classifier more inclusive for bird species at the edge of their range. Automated classification provided the ability to efficiently and objectively analyze all recordings to obtain high-resolution activity trends (Knight et al. 2017). The ability of the classifier to detect

a vocal signal (also termed "recall") can vary by species due to differences in species singing rate, signal strength, and environmental clutter, which can influence relative activity patterns inferred from ARU data (Van Wilgenburg et al. 2017; Yip 2020). Nevertheless, this potential drawback is outweighed by the significant time savings and consistency afforded by this method. Compared to human point count surveys, ARU surveys provide the ability to collect more data over longer timeframes in remote areas (Knight et al. 2017), resulting in more species meeting modelling requirements allowing potential downstream project impacts to be assessed for more species.

Data Vetting and Filtering

Before filtering the data for analyses, all files auto-classified to a SAR species were manually vetted with the exception of SAR species that had over 10,000 detections, which included Common Nighthawk, Olive-sided Flycatcher, and Chimney Swift. Data were then filtered for analyses, which involved selecting only files with a BirdNET species classification confidence of 30% or more. For all remaining species (including Common Nighthawk, Olive-sided Flycatcher, and Chimney Swift), 10 recordings from each site were selected for manual verification. This strategy provided all species with an approximately equal verification effort so that less abundant species were not under-verified while setting a reasonable effort limit on more abundant species. Additionally, this level of vetting effort was supported based on incremental sampling (adding one at every iteration) the manually vetted classifications made by BirdNET and plotting the resulting accuracy against sample size (Attachment 7, Figure 17). When accuracy reached a stable point, this indicated a sufficient QAQC effort for the species. In total, 44,278 files were manually vetted. Only species with a BirdNET classification success rate of at least 90% (determined through manual vetting) were retained for subsequent analyses. Although this rigorous filtering process excluded species from the modelling exercise, it guaranteed higher confidence in the precision of the modelled species trends. Subsequent filtering also involved only including data from complete two-hour recording bouts and removing evening/night survey data for diurnal species and morning data for nocturnal species. Species classified as "nocturnal" included all potentially occurring nightjar and owl species, as well as other species that commonly vocalize at night or at dusk including the Common Loon, American Bittern, Virginia Rail, Sora, Pied-billed Grebe, and Yellow Rail.

Autonomous Recording Unit Vocal Activity Models

Generalized linear models were used to model bird singing activity as a function of spatial, temporal, and climatic covariates. Spatial covariates aimed to correct for any spatial autocorrelation in the data and included the survey location Universal Transverse Mercator (UTM) easting and northing. Temporal covariates included survey week (from Julian day), week^2 (week squared) and year. The relationship between singing rate and the number of days to the nearest full moon was also tested for nocturnal species. The weather and habitat covariates used were the same ones used for modelling bird density from human point count data.

Model building followed a hierarchical procedure made up of six model selection steps. In each step, a suite of models were compared to test the importance of a specific parameter or variable type. Step 1 identified the distribution that best fit the data by comparing two null models with either a poisson or negative binomial distribution. The best-fitting distribution was carried forward in all subsequent models. Step 2 tested the effect of adding a zero-inflation component. If zero-inflation provided a better fit to the data, it was carried forward in subsequent modelling steps. The effect of weather was tested in step 3 by comparing 10 models with different combinations of the weather covariates. Step 4 tested the importance of temporal variables by comparing 6 models for diurnal species (no full moon variable included), and 12 models for nocturnal species (included the variable "days to nearest full moon"). Location was tested in step 5 (four

models), and habitat in step 6 (eight models). For all models, "Point" (i.e., the ARU station ID) was included as a random factor. Finally, the parameters from the best-fitting models in each step were combined into a single final model. Model fit for the final model was measured and assessed following the same approach and criteria that were used to evaluate the human point count density models. Similarly, k-fold cross-validation (k=5) was also used to measure the predictive performance and stability of the models.

The average number of detections per hour predicted by the best-fitting model for each species at average levels of the numeric predictor covariates (averaged across Year and Treatment) was plotted. Confidence intervals were estimated from standard errors of the predicted values. Additionally, to visualize the temporal pattern of avian vocal activity for each species in the baseline investigations area, the mean number of detections per hour within the LSA predicted by the best-fitting model for each species at average levels of the numeric predictors was estimated for each survey date. Predicted means were averaged across each week. Rarer species (for which the sum of the weekly averages was less than five) were excluded from the plot. Finally, all values were scaled to the maximum weekly predicted mean and plotted against week.

Species List

Migratory Birds

As noted above, all ARU data were processed and species lists were generated. These data are presented and compared to known occurrence data to inform year-round bird use. Waterfowl and colonially nesting migratory bird surveys were conducted in targeted areas such as flooded fields and ponds, marshes, and lakes where ice-off first occurred (Section 2.4.6).

Marsh Birds

Marsh bird nesting occurs in wetlands with shallow water with emergent aquatic vegetation present. These sites are not safe to access in remote locations due to flying window limitations. Therefore, ARUs were used in place of in-person marsh bird surveys. The *Marsh Monitoring Program Participant's Handbook for Surveying Marsh Birds* (Bird Studies Canada 2009b) was adapted for this. ARUs recorded bird vocal activity during the active period for marsh birds, adapted for the Boreal Shield (mid-May to late July; OBBA 2021a). Call-backs are typically used in marsh bird surveys as these species are generally more elusive. However, the ARU results were queried for target focal species to inform marsh habitat delineation; focal species are those species that rely on marsh habitats for one or more stages of their life cycle. For the Project, the focal species in the study area are American Bittern, American Coot, Sora, Yellow Rail, and Pied-billed Grebe.

According to the marsh birds protocol (Bird Studies Canada 2009b), morning surveys can begin 30 minutes before sunrise and end no later than 10:00 and evening surveys can begin no earlier than four hours before sunset and must be completed by dark. Stations are surveyed for 15 minutes sub-divided into three 5-minute sections, with the middle section used for playbacks. The ARU programming captured the windows and duration set by the protocol but did not include playbacks. Lastly, the protocol recommends that surveys be 10 days apart between May 20 and July 5. The Marsh Bird ARUs were left stationary from May to July to capture potential marsh bird activity throughout this entire period.

Species at Risk Birds

As noted, all ARU data were processed and species lists were generated from ARU detections. Unlike the above, all records of SAR were manually vetted.

2.5 Large Mammal Surveys

Large mammal surveys, including systematic winter aerial strip transect surveys and Caribou satellite telemetry study, Caribou calving area surveys, and Moose aquatic feeding area (MAFA) surveys, were completed to describe abundance, distribution, and life stages of ungulates, their habitat, and their predators that are found or are likely to be found in the RSA.

2.5.1 Aerial Surveys

Caribou are wide-ranging vagile species that use large annual ranges, making them susceptible to landscape-level disturbance and, ultimately, cumulative impacts. These disturbance-based relationships drive both the national (Environment Canada 2012) and provincial recovery strategy directives (Ontario Woodland Caribou Recovery Team 2008). As noted by MECP through comments on the provincial Terms of Reference process, the Springpole EIS/EA must include a multi-scalar assessment of potential effects on Caribou from all Project components, including the assessment of alternatives, taking into consideration the ability to avoid impacts to SAR. This includes local impacts around the Project annually or seasonally, as well as landscape-level impacts. The 2021-2024 winter aerial wildlife survey method was designed in consideration of these assessment needs.

The proposed Project is situated near the northwest edge of the Churchill Caribou Range and is directly adjacent to the Kinloch and Berens Caribou Ranges. The aerial survey design was informed by considering all available information on historical Caribou occurrence and habitat in the region. This included provincial data and consultation with MECP to provide review and input as to the proposed survey area extent and survey transect design. The 2021 baseline report noted that the survey area would be adjusted through an adaptive management approach by revising the spatial extent using newly acquired and best available information, such as the MECP Caribou satellite telemetry data, habitat suitability/configuration, landscape attribute data, and information from Indigenous partners that communities may want to share. Future revisions may also incorporate revised regional scales of assessment agreed to through the EA or Overall Benefit Permit approvals and consultation process for the Project. In 2022, the aerial survey extents were adjusted to include a larger extent of area sampled in portions of each of Kinloch, Berens and Churchill Ranges. In 2023, additional adjustments to the survey extents were made for portions of Kinloch and Churchill ranges based on the 2022 survey results. The survey study area extent in 2024 was essentially the same as for 2023, with the additional area to the southwest based on preliminary telemetry results.

Winter systematic aerial strip transect surveys occurred between February 27 to March 7, 2021, February 24 to March 6, 2022, January 26 to February 6, 2023, and February 17 to 25, 2024 during daylight and good to fair weather conditions. Transects were flown at approximately 100-120 km/hr, and the pilot was instructed to speed up, slow down, fly lower or higher, and circle as needed to scrutinize the area. Provincially recognized and standardized ungulate aerial surveys require a three-person crew configuration (plus pilot) with a minimum of two experienced / provincially approved biologists, each focused on observing from each side of the helicopter, and a third biologist (crew lead) with caribou observation/classification expertise, navigation / data recording to minimize bias in detection, observation and group classification. All observations (and fresh tracks) were recorded using a handheld GPS and the Avenza Maps application.

Calf recruitment, population structure and distribution field observations were collected in accordance with standardized provincial and federal protocols for monitoring Caribou, including the MNR integrated range management methods (MNRF 2014b) and the federal Boreal Caribou Action Plan committee and Ontario *Moose Aerial Observation Manual* (Oswald 1997) (Attachment 1; Buckland et al. 2001; Gasaway et al. 1986; Le Moullec et al. 2017; Arsenault and Hazell 2019, NBCKC 2022, MECP 2021a; MNRF 2014c,e; Thomas et al. 2010) and the extensive experience of the senior Caribou biologists on the team.

In 2021, the survey extent was composed of 43 flight lines in an east–west orientation, spaced at 2 km intervals covering 5,804 square kilometres (km^2) (Figure 2–10a) over known Caribou (Boreal population) overwintering areas, as well as adjacent areas of mature coniferous forest blocks (suitable habitat) and potential future habitat areas regenerating from older past wildfires or forestry operations. MECP was consulted to confirm known locations of recent or past concentrations of Caribou activity. Areas up to 120 km from the Project site were included, though a minimum buffer of 10 km around Project components and their alternatives were covered.

In 2022, the survey extent was expanded to 12,253 km^2 (Figure 2–10a) using the same 2 km strip transect design and survey methods applied to the larger survey area. The expanded survey extent was composed of six survey blocks and 145 flight lines of varying lengths in an east–west orientation, spaced at 2 km intervals. To delineate the 2022 survey area, a 40 km radius buffer was applied to the Project mine site features and a 20 km radius buffer was applied to all Project linear disturbance options, representing two to four times the expected threshold response distance for Caribou for a mine development. The buffer distances applied to inform the survey area delineation were precautionary, intended to ensure that a sufficient spatial extent is reasonably considered in relation to threshold disturbance responses of Caribou at the local and landscape scales (Environment Canada 2012). Provincial Caribou satellite telemetry data and kernels of individual seasonal core use areas (wintering and calving/nursery) from all three local populations (Berens, Churchill, and Kinloch), were acquired from MECP. The telemetry kernel dataset represents all collared adult female Caribou that potentially interacted with the general baseline investigations area in recent years and had a presence within and/or adjacent to the buffered area (winter or calving/nursery seasonal kernel proximity to the 20/40 km buffer of the proposed Project. This included the space use by Caribou cows that chose to calve within the general baseline investigations area. These data were overlaid on the 20/40 km buffered area, along with known Category 1 Caribou habitat (overwintering and calving-nursery areas), and clusters of winter Caribou observations from an aerial survey conducted in February 2021. A minimum convex polygon was then generated using the telemetry data for Caribou using Category 1 habitat within and proximate to the PDA to inform final delineation of the revised and expanded survey area.

In 2023, the survey extent was adjusted to an area of 16,276 km^2 (Figure 2–10a) based on results of the 2022 survey, with modification primarily on the Kinloch and Churchill portions of the survey area and adherence to the 2 km strip transect design and survey methods used in the previous surveys. The survey was undertaken to locate Caribou groups with cows within 100 km of the PDA in advance of a satellite telemetry collar deployment (Section 2.5.2).

In 2024, the survey area and effort utilized the same strip transect survey design as previous years but sampling effort was stratified to allow focused search effort on high probability Boreal Caribou detection strata (including immediately adjacent areas within 2 km) composed of all known wintering areas (Category 1 Winter Habitat Polygons) from provincial data, distribution kernels of caribou activity areas derived from previous winter aerial surveys, and recent winter telemetry locations (Figure 2-10b). Recently disturbed areas (fire and forestry disturbance) and large waterbodies were considered to be low-detection probability strata and were omitted from the systematic sampling effort. The aerial survey caribou classification component was aided by VHF telemetry relocation of collared caribou.

Observed Caribou and Moose encountered during the survey involved classification with respect to sex and age categories using physical attributes and behaviour (within group association). Number of calves, number of adult females, number of adult males, and number of unclassified individuals were recorded. Sign (e.g., number of fresh track sets, beaver lodges) and observations of wolf, Wolverine, and some furbearers, including Otter, Beaver, and Marten were opportunistically recorded.

2.5.1.1 Data Analysis

Population demography analyses and trend models were initiated for Caribou, and modelled abundance trend analysis over time will be completed as new data are acquired from subsequent surveys required by permit conditions. Population performance metrics include:

- Population structure (age, adult sex ratio);
- Population state (abundance/density, structure, viability) and vital rates (population growth, recruitment and/or mortality);
- Mortality risk (wolf and Moose distribution relative to Caribou); and
- Fidelity to and distribution of winter ranges.

In addition, spatial observations of Caribou, Moose, and Wolves were used to construct adaptive density kernels of relative distribution in ArcMap or R, which are estimates of the probability of use on the landscape using clusters of observations and can be used to inform core use wintering areas for Caribou, Moose, and Wolves. Kernel density estimators are widely applied in ecology, using locations to generate relative density distributions across a landscape based on recorded locations. Kernel analysis results were used to develop maps depicting relative distribution of Caribou, Moose, or wolf within the survey area and to inform annual apparent competition risk based on overlaps of relative distributions within a given survey year.

2.5.2 Caribou Telemetry Study

An aerial reconnaissance survey was initiated on January 26, 2023 (and continued into the capture/collaring phase) to locate Caribou groups for subsequent capture and collar deployment (February 3 to 6). Caribou capture and collar deployment complied with the ESA-B permit (# NR-B-005-21) conditions and associated approved wildlife animal care committee protocol (#23-484). A total of 50 Telonics GPS satellite iridium collars (model TGW-4670-4) equipped with a CR-5A collar release mechanism were deployed on adult female Caribou. Collars were deployed in the Churchill (n=19), Kinloch (n=15) and Berens (n=16) ranges (Figure 2–12). Hair (for cortisol analysis), blood (for pregnancy testing) and fecal samples (for future assessment of pathogen load and potential genotyping analyses) were collected from each collared Caribou. No Caribou were injured by the capture or handling efforts. There were no capture mortalities (neither during capture nor myopathies within three days of capture). Bighorn Helicopters Inc. conducted all captures. Caribou within 50 km of the Project site were priorities for capture and targeted collar deployment. However, animals up to 100 km from the Project site were selected based on Caribou distribution during the capture/collaring portion of the survey program.

Adult female Caribou were captured via net-gun from a helicopter. The net-gun consists of a stock and action (.308 cartridge) to which the net basket is attached. The netting is made from approximately 5 mm diameter nylon cord, with a mesh size of 150 mm and a total net dimension of approximately 6 square metres (m^2). A cylindrical steel weight, approximately 15 centimeters (cm) long and 2 cm in diameter, is attached to each of the four corners of the net. These weights are inserted into four barrels, which angle approximately 45 degrees outward on the outside of the basket. When the net-gun is fired, these weights are discharged, thereby spreading the net rapidly. The net-gunner sits in the front seat of the helicopter with the door removed, and the "handler" sits in the backseat, ready to assist the gunner. The net is discharged from the net-gun such that it is placed fully open across the back of the Caribou and approximately half of the net lands in front of the animal. If placed as such, the animal's legs will rapidly become tangled in the net, grounding the animal.

The most critical issue with helicopter net-gun captures of animals is the time taken to pursue, catch, untangle from the net, secure, process and finally release the animal. The chase is broken down into three separate phases:

- The herding phase occurs when a group of animals is identified. The group may be herded to an area where the capture can be better performed. Herding may occur with a single animal or a large group of animals. There is no time limit to this activity.
- The positioning phase occurs when an individual or a small group of animals is split away from a large group, and increased pressure is applied to direct them to an area where capture can occur. At this stage, an animal may become aware that is has become a target. If the animal is not in a suitable capture location, the helicopter will slowly and carefully move the selected Caribou to a position below the capture site (gentle pursuit). This gentle pursuit is accomplished from a higher altitude such that the animal walks or trots to the preferred capture location and does not break into a hard run. Frozen lakes or ponds are the preferred capture sites.
- The pursuit phase lasts no longer than 30 seconds. Under certain circumstances, however, it may last longer depending on the topography, the condition of the animal and the animal's reaction. If the net misses or the animal escapes from the net, and an immediate recapture is not possible within 30 seconds, the animal will be allowed to "escape" before another pursuit is initiated. Where the net(s) misses (allows for multiple shots), the animal frees itself from the net, or the attempt exceeds two minutes of hard pursuit, the animal will not be considered for capture. The chase will be abandoned if the animal shows signs of excessive stress or enters an unsuitable capture area during hard pursuit. Upon successful netting, the gunner and handler are immediately dropped off to initiate handling (untangle from the net, hobble legs and apply blindfold), processing (biological sample collection and collar deployment), and safe release.

The collars are programed to collect six GPS daily location fixes over a four-year period before programmed collar release. The collars include a mortality sensor to inform when a mortality has occurred and to aid with location of the individual for mortality investigation to assess cause of death and to retrieve the collar, whenevera mortality occurs during the four-year study period.

2.5.3 Caribou Calving Area Surveys

These local scale surveys are typically undertaken as telemetry relocations, but an effort was made to visit previously known calving locations in 2022 without the aid of telemetry relocation because there were no collared caribou available to relocate. Efforts focused on the areas previously documented (Figure 212) but also considered islands and peninsulas in Category 1 Caribou habitat polygons near the mine site portion and road alternatives (CC1, CC2, CC3, as well as over Birch Lake). Areas of heavy/recent disturbance (e.g., cutovers/burns) were avoided; therefore, the surveys only focused on areas of conifer vegetation over 40 years old. The goal was to document visual cues of Caribou activity (e.g., trails in peatland areas with raised bog islands, feeding activity on lichen patches on open conifer upland sites where water is nearby) and any animals detected. If a cow was detected, observation from the helicopter at an increased distance would look for a calf or use binoculars to observe if the cow has an udder (i.e., nursing). Harassing animals did not occur, and the moment the animal seemed disturbed, investigation was avoided.

2.5.4 Moose Aquatic Feeding Area Surveys

An effort was made to visit previously known MAFAs in 2022. Five general locations occur in the north portion of the baseline investigations area, and numerous MAFAs occur in the southern portion (Figure 2). These areas were flown to document wetlands and isolated embayments in rivers or lakes, which provide an abundance of submerged aquatic vegetation such as pondweeds, water milfoil, and yellow water lily

(preferred sites). Adjacent stands of lowland conifer or mixed woods provide cover and shade for Moose. The methods were adapted from the *Selected Wildlife and Habitat Features: Inventory Manual for Use in Forest Management Planning* (Ranta 1997). The surveys documented use of the site by Moose or other species through observation of animal presence, tracks, and other such signs. MAFAs were ranked as low (1), moderate (2), high (3), or very high (4) potential according to size, accessibility to Moose, and vegetation type. The ranking of MAFA followed Figure 2.1.1 of the *Selected Wildlife and Habitat Features: Inventory Manual for Use in Forest Management Planning* (Ranta 1997).

2.6 Wolverine Surveys

Wolverine are a Threatened species in Ontario (ESA) and a species of Special Concern in Canada (SARA). Wolverine habitat use, demographics, denning, and population dynamics are not fully understood across Canada and are not well described in many regions of Ontario. Non-invasive monitoring is essential for detecting future changes in Wolverine distribution; monitoring their meta-population dynamics; and evaluating the impacts of local (e.g., Project-level), regional (e.g., cumulative effects), and global (e.g., climate change) anthropogenic effects on the persistence of their populations.

Wolverine surveys, including aerial surveys and run pole stations (tree-mounted platforms equipped with remote cameras), were used to inform demographics (number of unique females [lactating/nonlactating] and males); estimate occupancy/population density, habitat use, and dispersal; and identify areas of concentration/activity centres. When paired with statistical methods for estimating and modelling site occupancy over time, non-invasive methods provide an efficient and effective means for monitoring wide-ranging carnivores across large areas.

2.6.1 Wolverine Aerial Survey Transects

Wolverine winter distribution can be easily surveyed concurrent with sympatric Woodland Caribou (May et al. 2006; CBFA 2014). Wolverine and Caribou conservation are complementary because both species share the same boreal landscape (May et al. 2006) and have similar characteristics (i.e., low rate of population increase (λ), cumulative disturbance sensitivity that can affect recruitment, landscape occurrence at low natural population densities, large home ranges with large landscape requirements, and preference for intact and mature conifer forest). Wolverine tracks were detected primarily along the edges of lakes and streams in multiple locations during each winter survey (Figure 2). Particular effort was undertaken during the 2022 aerial survey to investigate all Wolverine track sets that were initially detected within a 2 km buffer of all Project alternatives during the strip transect survey. These tracks were revisited for intensive searching (100% coverage) of the track patterns (following tracks and searching for patterns of concentrated activity) to assess the area for potential natal/maternal dens. Wolverine tracks were investigated relative to the Mine Access Road Alternatives south of the Project and at five locations along the Transmission Line Alternatives. No maternal or natal dens were detected.

2.6.2 Wolverine Run Pole Stations

Sections 2.6.2.1 to 2.6.2.4 describe the approach and methods for the Wolverine run pole program. The methods presented below are aligned with two key references provided by MECP through comment on preliminary baseline reports: *Integrating Motion-Detection Cameras and Hair Snags for Wolverine Identification* (Magoun et al. 2011) and *Surveying and Monitoring Wolverine in Ontario and other Lowland, Boreal Forest Habitats: Recommendations and Protocols* (Koen et al. 2008).

2.6.2.1 Study Area Design

Wolverine use large landscapes with minimal overlap between male home ranges. Evidence specific to Ontario estimates average home range sizes for males and females of 2,563 km^2 and 428 km^2, respectively

(Dawson et al. 2010); though smaller home ranges (128 km^2) have been described recently for female Wolverine in the Red Lake area (Scrafford et al. 2021). Wolverine are sensitive to human-caused disturbances, particularly during the denning period. Human contact may cause females to abandon den sites (Myrberget 1968; Copeland 1996; Harris and Ogan 1997). Available information suggests that dens are typically located considerable distances from roads, generally supporting large buffers between dens and human activities; recent work by the Wildlife Conservation Society in northwestern Ontario has identified that the areas used by maternal Wolverine (i.e., denning areas) can range between 5 to 8 km from the den site.

The LSA for Wolverine was provided by the MECP (10 km) and applies to all Project components. A biologically relevant RSA was developed for the Project which considered the geographic extent within and across the study areas. The top end of the reported literature places the male Wolverine home range at 1,600 km^2; as such, a 50 km buffer was applied to the LSA to achieve a biologically relevant RSA. The 50 km buffer represents the long diagonal width of a theoretical 1,600 km^2 hexagon, which encapsulates the entirety of the top end of the known male Wolverine home range. The RSA is the area through which indirect effects may be expected on a species; the inclusion of the male home ranges that bound the theoretical female home ranges within the LSA are anticipated to be the minimum required to sustain a population of Wolverine. Furthermore, when the 50 km^2 buffer is applied, the total RSA is approximately 21,000 km^2, which is the amount of suitable habitat required to support a viable, self-sustaining Wolverine population and represents the scale necessary for monitoring Wolverine populations (Magoun et al. 2010).

2.6.2.2 Run Pole Stations

As recommended by the MECP, and consistent with other recent EAs in the region, a combined hair snag / non-invasive camera design (comprising the run pole station) was developed for the Project. These run pole stations were established within the Project LSA at a rate of one station per 100 km^2 (Koen et al. 2008). Tesselated hexagons (100 km^2) were randomly overlayed to generate the theoretical minimum home ranges of female Wolverine. Within these hexagons, stratified random sampling was used to prioritize the placement of run poles within most suitable habitat associated with Wolverine denning and movement: riparian corridors, lake edges, burns, ridges, and within vegetation community B128 (vegetation community where dens have been disproportionately detected in the Red Lake region per MECP correspondence). In some cases, previous years' data were also used to identify locations within the LSA and stations were placed at the intersection of most suitable habitat and with previously observed evidence of Wolverine.

Run pole stations were constructed in accordance with *Integrating Motion-Detection Cameras and Hair Snags for Wolverine Identification* (Magoun et al. 2011) (Photo 1 and Photo 2). The Project set-up differed slightly from what is described in Magoun et al. (2011), using two cameras at different locations rather than two cameras on one tree. For the Project, a Reconyx HyperFire2 Professional White Flash Camera was placed opposite the run pole station (i.e., capturing the ventral photos of the Wolverine), while a Reconyx HyperFire2 Covert Infrared Camera was used to capture the broader set-up from a lateral view, capturing the station in its entirety including animals choosing not to ascend the run pole. Further, barbed wire was placed on the supporting tree and on the run pole to create additional opportunities for collection of hair from the target species.

Cameras were set to a 24-hour motion trigger schedule (day and night) and collected 10 photos per trigger event with a picture interval of 1 second.

Stations were baited with locally available animals that Wolverine would be familiar with, including parts of Moose and Beaver that were from road-killed animals or were remnants of animals taken by hunters or

trappers. A commercial attractant (Caven's Gusto Long Distance Call Scent Lure) was applied to the bait and used to further entice Wolverine to the run pole stations.

Run pole stations were visited monthly to collect hair, change batteries, refresh bait, and replace memory cards. Where hair was detected within a trigger clip, it was placed in a small coin envelope and labelled with a collection and trigger clip number that included the date, camera site, and clip position on the run pole. Therefore, each hair sample envelope contained hair(s) known to have come from the same animal. For each run pole station, these small envelopes were placed into a larger envelope labelled with the collection identification number for that station and date.

Trigger clips were mounted so they could be seen on the photographs, so that it was evident which clips were set and which ones were triggered, both before and after a visit by a Wolverine, thereby allowing the determination of which individual Wolverine was associated with each triggered clip. This integrated method of photographing and collecting hair from Wolverine makes it possible to link genotypes with the unique ventral patterns of the Wolverine photographed at the stations.

Twenty-five run pole stations were deployed within the LSA between February 13 and 16, 2023 (Figure 2). Data were collected, and batteries and secure digital (SD) cards refurbished on two separate occasions after the initial set-up: March 22, 23, and 24 and April 18 and 19. At the end of April 2023, stations were decommissioned for the summer/fall.

2.6.2.3 Photograph Analysis

Photographs were processed using MegaDetector v5.0 and analyzed using Timelapse V2.3.0.8 software. All animals detected were identified and labelled to species. Where possible, preliminary determinations of sex of Wolverine were documented.

2.6.2.4 Genetic Analysis

Photographs collected at the run pole stations underwent a preliminary review to determine which hair samples were thought to be from Wolverine; every Wolverine identified by its ventral pattern that left hair at a run pole station was selected for genotyping. Collections were selected for analysis based on photographic evidence that only one Wolverine had visited the site before hair was collected or, in the case of a visit by more than one individual, where it was evident through photos which Wolverine had triggered which clips.

Sixty hair samples were submitted to Wildlife Genetics International for microsatellite analysis. The outcome of the analysis is anticipated to provide both individual ID and sex. DNA extraction methods, microsatellite loci used to distinguish samples, and specific region used to determine sex will be described when available.

2.6.3 Wolverine Habitat Suitability Model

Wolverine are the largest terrestrial member of the weasel family, inhabiting remote wilderness areas and occurring at low densities over the landscape (Pasitschniak-Arts and Larivière 1995). Wolverine have large home ranges (males>females) and broad-scale habitat requirements, resulting in sparsely distributed populations (COSEWIC 2003; Aubry 2009; Ontario Wolverine Recovery Team 2013). In Ontario, their habitat associations are influenced by various factors, including forest types, prey availability, human activity, and landscape features.

<u>Forest Types and Vegetation</u>

- Boreal Forests: Wolverines are typically associated with boreal forests, which provide cover, denning sites, and prey.

- Mixedwood Forests: Mixed coniferous and deciduous forests are also important, especially those with a rich understory.
- Old-Growth Forests: These forests offer ideal conditions for denning and have less human disturbance.

Snow Cover

- Deep Snow: Wolverines rely on areas with deep, persistent snow for hunting and denning, as it aids in thermoregulation and provides insulation for dens.

Prey Availability

- Ungulates: Caribou and moose are significant prey species. Wolverines often scavenge on carcasses left by other predators.
- Small Mammals: Small mammals such as snowshoe hares and rodents also form a part of their diet.

Human Activity

- Low Human Disturbance: Wolverine prefer areas with minimal human disturbance. High levels of human activity, such as logging, mining, and road networks, can negatively impact their habitat.

Landscape Features

- Remote Areas: Remote, undisturbed regions are preferred for denning and rearing young.
- Elevations and Slopes: Diverse topography, including varying elevations and slopes, provide suitable microhabitats and travel corridors.

Climate and Environmental Conditions

- Cold Climates: Wolverines are adapted to cold climates and are often found in areas with harsh winters and cooler summer temperatures.

Wolverine in Ontario are primarily associated with boreal and mixedwood forests, areas with deep snow cover, abundant prey, and minimal human disturbance. Studies within North America suggest that Wolverine inhabit a variety of treed and treeless areas at all elevations including the northern forested wilderness, the alpine tundra of the western mountains, and the arctic tundra (COSEWIC 2014). Many studies have examined seasonal habitat use by Wolverine across their western North America range and no consistent pattern of vegetation habitat associations has emerged (Gardner 1985; Johnson et al. 2005; May et al. 2006; Krebs et al. 2007; COSEWIC 2014). Instead, habitat use is best described as a function of large undisturbed wilderness areas and seasonal variation in food abundance, denning requirements, or human disturbance (Johnson et al. 2005; May et al. 2006; Krebs et al. 2007; COSEWIC 2014).

Model Description

Wolverine have large home ranges and suitable habitat is likely defined by the distribution and abundance of food as well as habitat for denning (BC MOE 2004). Wolverine habitat selection likely occurs at a large scale (i.e., landscape) and therefore users must be cautious with interpretation of habitat suitability results at the site-level. The Wolverine model was developed for northern Ontario using the following assumptions derived from the literature:

- MECP has stated that based on Red Lake studies, ecosite b128 is most often associated with female Wolverine natal and maternal dens in northern Ontario.
- Residential, municipal and agricultural areas are non-habitat (Bowman et al. 2010; Copeland et al. 2007; Krebs et al. 2004; Krebs et al. 2007; May et al. 2006; Squires et al. 2007).

- Roads reduce habitat quality (Bowman et al. 2010; Copeland et al. 2007; Krebs et al. 2004; Krebs et al. 2007; May et al. 2006; Squires et al. 2007).
- Copeland et al. (2010) has shown a strong correlation between global Wolverine distribution and persistent spring snow cover. Persistent spring snow cover is important for Wolverine maternal denning and potential resource extension of snow-buried food caches (Inman et al. 2012).

Based on these assumptions, three suitability indices were defined for the wolverine HSI model: presence of high-suitability denning ecosystem type (b128), average snow cover in May, and anthropogenic disturbance. Each suitability index is described below.

Ecosystem Type SI (1)

Many studies have examined seasonal habitat use by Wolverine across their range and no clear pattern of vegetation habitat associations has emerged (Gardner 1985; Johnson et al. 2005; May et al. 2006; Krebs et al. 2007; COSEWIC 2014). The MECP reports that in northern Ontario habitat type B128 (Intermediate Conifer Swamp) is most commonly associated with natal and maternal dens. Intermediate Conifer Swamps have canopies consisting of Black Spruce and presence of Tamarack, and Speckled Alder; moss, woody debris, and conifer litter are common. Some studies have found association with forested areas that could provide food caching sites, rest areas, and means to avoid predators (Boles 1977; Wright and Ernst 2004). Krebs et al. (2007) suggested that non-vegetated habitats where prey availability is low are generally avoided by Wolverine. Wolverines can occur in most ecosystem types, and factors such as food accessibility and proximity to human disturbance may influence Wolverine habitat suitability more than specific habitat attributes (Petersen 1997, Krebs et al. 2007). The vector file was converted to vector format and a 500 m x 500 m raster clipped to the RSA where each cell represented the dominant ecosystem type.

All Intermediate Conifer Swamps (B128) which are most commonly associated with documented Wolverine denning to date receive a suitability score of 1.0. All natural terrestrial ecosystems present in the RSA area assigned a high suitability score of 0.8. Anthropogenic land cover is assigned a suitability score of zero.

Persistent Spring Snow SI (2)

Female Wolverine typically establish dens in snow tunnels leading to masses of fallen trees (Magoun and Copeland 1998; Lofroth 2001). Copeland et al. (2010) have argued that persistent spring snowpack is the fundamental limiting factor for successful Wolverine denning and that the geographic distribution of Wolverine is limited by availability of persistent snowpack. Therefore, areas with persistent spring snow cover through the month of May are assigned a suitability score of 1.0. For each of 2023 and 2024, the average monthly snow cover was calculated for May; raster pixels (30m) with evidence of snow cover received a value of 1.0 and raster pixels without snow a value of zero. These values were summed across the two years to derive the spatial covariate spring snow cover (mean summed pixel value). Snow cover data was obtained from the NASA earth data website (https://search.earthdata.nasa.gov/search). We averaged daily moderate resolution imaging spectroradiometer data (MODIS/Terra Snow Cover Daily L3 Global 500m SIN Grid V061) across the month of May separately for 2023 and 2024. We then took the average of both years to obtain the average percent snow cover. The final covariate was a 500 m x 500 m raster clipped to the RSA where each cell represented the average percent snow cover across 2023 and 2024.

Anthropogenic Disturbance SI (3)

Many studies indicate that Wolverine avoid areas of human disturbance and resource development, especially areas of high road density (Krebs et al. 2007; Bowman et al. 2010; Fisher et al. 2013; Heim et al. 2019), which may impact behaviour patterns such as denning, kit rearing, travel, and foraging. However,

recent research suggests that Wolverine, including denning females, may be tolerant of some types disturbance in their home ranges (Heinemeyer and Squires 2013, 2014; Scrafford and Boyce 2014; Scrafford et al. 2017), possibly because disturbed areas provide enhanced foraging opportunities (Scrafford et al. 2017). Scrafford et al. (2018) found that Wolverine avoided roads, and increased movement rates in proximity to roads with higher traffic.

A suitability index was applied to penalize potential habitats adjacent to anthropogenic disturbances using a buffer approach. Buffer width was dependent on the disturbance type (Table 2-2). Distance to roads and road density were obtained by first merging the Ontario Roads Network and MNR Roads layers. The resulting layer was converted to a 500mx500m raster and the distance to the nearest cell containing a road was calculated for all cells. Road density was first calculated as the length of road contained within each raster cell. Similar to the snow cover covariate. Where buffers intersected, the greater value was retained. Areas within the buffer are assigned an SI(3) value of 0.5 or 0.3. Areas outside the buffer are assigned an SI(3) value of 1.0.

Model Equation

The three suitability indices outlined above were combined to form the Wolverine HSI model using the following equation:

$$HSI_{wolverine} = SI(1) * SI(2) * SI(3)$$

HSI values ranging from 0.0 to 1.0 were calculated by multiplying each raster grid (500 m x 500 m) and deriving a cumulative HSI score for each 500 m x 500 m grid square. Cumulative HSI was then separated into four bins, hereafter referred to as HSI scores (Table 2-3).

Model Validation

Survey types targeting Wolverine in the Study Areas include remote camera monitoring and winter track surveys. While presence data is available from the run-pole program, validation of the HSM is complicated by the presence of bait at each of the run-pole stations; the bait may alter Wolverine behaviour and habitat use.

Although validation was not possible and the predictive accuracy of the model remains uncertain, the model description represents the current state of knowledge regarding the ecology and habitat preferences of Wolverine in northwestern Ontario.

2.6.4 Population Estimation Analysis

Density of wolverine was estimated using spatially explicit capture-recapture (secr) modelling following methods described by Strampelli et al. (2022) for secr density modelling of lion trailcam data and Scrafford et al. (2023) secr density modelling of wolverine run-pole and live-trapping data. Data were divided into "capture" occasions which describe the time allocated to one sampling event. A 14-day occasion was specified following Scrafford et al. (2023). Within each 14-day period, only the first detection of an individual at any given station was included, allowing each animal to be detected only once at each station. Capture and trap location data were then converted to the appropriate file format for analysis in R with the "secr" R package. When creating each animal's capture history, the detector type was swpecified as "proximity", following Strampelli et al. (2022), as each animal was free to be detected by multiple camera stations within a given occasion. Coordinates of traps and any other spatial data were scaled down by a factor of 1000 to reduce the computational load of the analysis. The "secr" package requires a raster object (mask) that defines the geographical boundaries for the parameter estimation. We followed Scrafford et al. 2023 and specified a 50km buffer.

A three-step approach was used to identify the density model that best fit the data. First, the detection function that best fit the data was identified by comparing a null model that followed a half normal detection function to a null model that followed a hazard rate detection function. Second, the best model from the first step was carried forward to compare models that included sex as a covariate influencing detection probability at an animal's activity centre (g0), the scaling factor of the detection probability function, or both. Given that sex could not be identified for several individual wolverine, a hybrid mixture model was used to account for the effect of sex on overall wolverine density (Efford, 2020). Finally, in the third step, the best model from the second step was carried forward to compare models that each included one of three spatial covariates that could impact density. The spatial covariates tested were snow cover, distance to the nearest road, road density, and project area. Snow cover data was obtained from the NASA earth data website (https://search.earthdata.nasa.gov/search). Daily moderate resolution imaging spectroradiometer data (MODIS/Terra Snow Cover Daily L3 Global 500m SIN Grid V061) was averaged across the month of May separately for 2023 and 2024. The average of both years was taken to obtain the average percent snow cover. Finally, following Scrafford et al. (2023), for each cell, the average snow cover within a 10km-radius circle centred on the cell was calculated. The final covariate was a 500m x 500m raster clipped to the mask where each cell represented the average percent snow cover within 10km. Distance to roads and road density were obtained by first merging the Ontario Roads Network and MNR Roads layers. The resulting layer was converted to a 500m x 500m raster and the distance to the nearest cell containing a road was calculated for all cells. Road density was first calculated as the length of road contained within each raster cell. Similar to the snow cover covariate, the final road density was calculated as the average length of road per cell within 10km of the cell. Project area was a categorical raster layer representing the area covered by the LSA and the area beyond the LSA.

2.7 Bat Surveys

Bat surveys included maternity roost habitat surveys, hibernacula surveys, and ARU detection. Desktop analysis combined with field confirmation and ARU results inform the presence of bat species and the abundance and distribution of their habitat in the RSA.

2.7.1 Bat Maternity Roost Habitat Surveys

Three criteria were used to select habitats to target for bat maternity roosting habitat surveys. First, survey locations were targeted at mature mixed and deciduous forests as these were likely to provide the highest quality roosting habitat for bats. FRI data and the Far North Land Class data were used to identify areas of mature growth deciduous / mixed wood stands or old growth deciduous / mixed wood stands with a significant component of birch, poplar and/or ash trees (Figure 2–1). Secondly, surveys also targeted specific ecosites identified by MECP (2021j) as providing suitable maternity roosting habitat for bats. When present, these included the following ELC ecosites: B015-019, B023-028, B039-043, B054-059, B069-076, B087-092, B103-108, B118-125, and B130-133. An effort was also made to target these ecosites if they occurred in the proposed PDA. The locations of these ecosites was determined from FRI data. Third, surveys also included any commonly occuring forested ecosite not listed by MECP as bats are genearlly opportunistic with respect to roost selection and will use any tree species if roosting conditions are favourable. Survey locations were further refined by helicopter or on foot based on vegetation surveys and ground truthing. Fifty-three survey locations (22 in 2021, 12 in 2022, and 19 in 2023) with a total of 167 survey plots were completed in the RSA. One of the survey areas with three plots was in a unique swamp community with many birch and ash trees (Figure 2), swamp location C16.

Evaluation of suitable bat maternity habitat adapted methods based on *Bats and Bat Habitats: Guidelines for Wind Power Projects* (OMNR 2011) and the more recent guidelines for southern Ontario (OMNRF 2017b). At each location, several circular plots with a radius of 12.6 m (an area of 0.05 hectares [ha]) were surveyed.

In each plot, all trees with a diameter at breast height (DBH) of more than 10 cm and harbouring potentially suitable bat habitat in the form of cavities, loose bark, or cracks were recorded. For each suitable tree, the species of the tree, its level of decay (Watt and Caceres 1999), its height and canopy class, as well as the height and number of suitable features that it contained, were recorded. Typically, five plots were completed at each site, but fewer plots were surveyed at sites where the area of suitable habitat was limited. At each survey site, plot locations were selected randomly within the suitable forest type. FRI mapping was used to determine the primary ecotype at each survey site. The average snag density overall and within each FRI ecosite surveyed was then calculated. Snag density informed SWH, as well as bat detector placement.

A visual assessment of the buildings within the existing camp was also undertaken in July 2022 for evidence of potential bat maternity roosting within the buildings. The buildings evaluated included the kitchen, the core shack, the geo shack, the workshop, the office, as well as any other wooden or metal buildings. None of the buildings harboured signs of occupation by bats, which could have included evidence like guano or ammonia staining. The kitchen, core shack, geo-shack, workshop, and office all had gaps between the steel roof and the underlying plywood. To confirm whether bats were using these buildings, five bat detectors (Wildlife Acoustics SM4BAT FS coupled with an SMM-U2 microphone) were deployed from July 6 to 8, 2022, within 2 to 5 m of each building at locations where bats were most likely to emerge. It only rained for three hours on one of the nights, and average temperatures were suitable for bats ranging between 12 to 16 ºC.

2.7.1.1 Bat Maternity Roost Detector Surveys

Bat detectors were deployed to conduct bat acoustic surveys and provide technical documentation for planning and process-related submissions. These surveys detect nocturnal bat activity during the maternity period in June and early July as Ontario bat species have species-specific echolocation call structures that enable acoustic identification to species. Songmeter SM4BAT FS (Wildlife Acoustics Inc.) ultrasonic recording detectors paired with SMM-U2 ultrasonic microphones (Wildlife Acoustics Inc.) were deployed throughout the LSA and RSA (Figure 2).

Selection of sites for acoustic monitoring was based on habitat surveys and vegetation data collected. Most detectors were deployed at locations where higher bat activity levels were likely to occur, such as habitat edges. A subset of detectors was also deployed within forested areas with high densities of potentially suitable maternity roost trees to capture potential activity of bats emerging from roosts, as well as to increase the likelihood of recording Northern Myotis. A total of 37 bat detectors were deployed at 19 sites during the maternity period in 2021 (Figure 2). During the first round of recording, pairs of detectors were placed at 11 sites. During a second round of recording, all detectors except four were moved and re-deployed in pairs at eight new sites. The four detectors that were not moved were left to continue recording at their original sites. The first round of deployment started on May 31 to June 4 and ended on June 7 to 10, and the second round started on June 8 to 10 and ended on June 26 to 29. In 2022, 37 bat detectors were deployed, of which 15 were deployed at sites (one per site) from 2021, and the remaining 22 were deployed at new sites not surveyed in 2021. Similar to 2021, bat detectors were deployed in two rounds and moved between rounds to improve coverage. In 2023, single bat detectors were deployed at 26 survey sites, of which 4 were sites from 2021 not re-surveyed in 2022 and 8 were sites from 2022 (Figure 2–17). All nocturnal bat activity was recorded from 30 minutes before sunset to 30 minutes after sunrise.

Microphones were positioned as high as possible (2 to 3 m from the ground). Microphones were also kept 1 to 2 m from vegetation and oriented toward open areas to capture clean recordings that allow accurate species identification. Bat detectors were configured to begin recording when ultrasonic signals greater than 18 dB above the noise floor rolling average were detected. Upon trigger, a two- to five-second recording was saved. A signal process then filtered recorded signals and retained those files resembling bat echolocation. A 12 kilohertz (kHz) high-pass filter was also applied to recordings. All recordings were made

in .wav format with a 384 kHz sampling frequency and 16-bit resolution, resulting in real-time, full-spectrum data that afford greater accuracy and confidence when identifying recordings of bat calls to species.

The closest weather station to the Project site is Ear Falls (AUT) at approximately 100 km to the southwest followed by Red Lake (Airport) at approximately 120 km to the west and Pickle Lake (AUT and Airport) at approximately 130 km to the east. The average weather was calculated across the three stations to quantify the number of days when weather was favourable to bat activity (i.e., nights with temperatures above 10°C, no significant rain where significant is at least 5 mm, and low winds).

2.7.1.2 Bat Detector Analysis

All recordings were initially filtered using the Batch File Scrubber of the SonoBat Data Wizard (Version 4.4.1). The scrubber was set to remove files containing only tonal signals below 5 kHz and any file where tonal signals resembled noise. Recordings were initially identified to species using SonoBat Version 4.4.1 (SonoBatTM) automated processing software, running the classifier for the Northeast region and the northeastern US and southern Ontario subregions. Automated classification can provide accurate classifications for clear recordings with a high signal-to-noise ratio, especially for regions of low species diversity. However, most field recordings contain some level of noise, which can limit the accuracy of automated software and its ability to detect echolocation calls within recordings.

While automated classification provides an efficient classification of large numbers of echolocation recordings, studies on the accuracy of automated classification caution on relying solely on this method (Rydell et al. 2017; Lemen et al. 2015; Menon et al. 2018). Therefore, a subset of the recordings was also classified manually. When the automated software cannot classify a recording to a specific species due to poor recording quality or call feature overlap between multiple species, it classifies the bat pass as either belonging to a high-frequency bat or a low-frequency bat. The former emits calls with a minimum frequency above 35 kHz, while the latter emits calls with a minimum frequency below 35 kHz. In Ontario, all bat SAR emit calls in the high-frequency range. Therefore, emphasis was placed on high-frequency passes when selecting calls to classify manually. Specifically, acoustic surveys of bat maternity habitat (surveys in June and July) aimed to identify the presence and level of activity of all bat species with a focus on SAR species. For these surveys, all bat passes auto-classified to the high-frequency group or to a specific species that falls within this group were selected for manual classification. These recordings represented 2,408 of 25,384 bat passes (9.5%) in 2021; 17,258 of 135,723 passes (12.7%) in 2022; and 5,183 of 40,717 passes (12.7%) in 2023. Additionally, given the relatively small number of passes classified as Big Brown Bat (196 in 2021, 1,481 in 2022, and 661 in 2023), a low-frequency species, all passes auto-classified as Big Brown Bat were also manually verified. For all manually vetted files, the auto-classification result was replaced by the manual classification.

The automated classification used the "consensus classification" decision method in SonoBat. Up to 32 calls within each recording were classified based on over 30 acoustic parameters. The software uses a discriminant analysis to provide an accuracy probability for each classification and only calls with a probability greater than 90% were accepted. Manual classification was accomplished by comparing qualitative and quantitative parameters of recorded bat calls to a library of known species parameters. Parameters used for species identification included the frequency of maximum energy, minimum frequency, maximum frequency, call duration, the slope of the call, and other more qualitative parameters such as the time-frequency shape of the call, the position of the knee, presence of inflections and terminal curvatures. Less importance was placed on maximum frequency due to its susceptibility to atmospheric attenuation. Calls that could not be classified to a single species were placed in a group named after the two or more species most likely to have produced the call.

2.7.2 Bat Foraging Habitat

Explicit surveys of bat foraging habitat were not conducted, although foraging behaviour was likely captured by the bat maternity habitat acoustic surveys, especially by bat detectors deployed along forest edges. Instead, a conservative approach was used to map foraging habitat for bats across the RSA. Foraging habitat was mapped according to recommendations in the Ontario Recovery Strategy for SAR bats (Humphrey and Fotherby 2019) and was defined as:

- The area within a 40 m buffer around all maternity habitat;
- The area within a 40 m buffer along the inside of all lake edges;
- The area within a 2 m buffer around any stream;
- Any forest, wetland or pond not identified as maternity habitat;
- The area within a 2,600 m buffer around any candidate hibernaculum.

2.7.3 Bat Hibernaculum Assessments

Potential bat hibernacula were first considered through a desktop mapping exercise. The mapping exercise aimed to identify two land features that could conceivably provide suitable bat hibernacula: abandoned mines and near-vertical rock faces that may contain deep cracks or crevasses. The identification of abandoned mines was completed using the Ontario Abandoned Mines Information System (AMIS) produced by the Ministry of Mines (NDMNRF 2018). To determine the locations of near-vertical rock faces, the provincial Digital Elevation Model was analyzed for the following characteristics: relief (vertical elevation), ruggedness (terrain heterogeneity) and slope (angle of inclination). These data then were cross-referenced with landcover data from FRI and Far North Land Cover data. Surficial geology data from the Northern Ontario Engineering Geology Terrain Study was not available.

Candidate hibernacula were assessed with field surveys in 2021 with acoustic detectors at eight cliff and mine sites (20 detectors total). Nine mine features from the AMIS database were identified in the RSA (M1 to M9) (Figure 2). Once biologists arrived at the coordinate, they searched for the AMIS feature by moving outward from the AMIS coordinate in a circular pattern up to a radius of 500 m. Three of these, M4, M7, and M8, could not be found despite a thorough search by qualified biologists, and two other sites, M1 and M9, were visually determined to be unsuitable for bats as they did not harbour deep cracks or openings in rock or talus that could potentially hold stable microclimates necessary for hibernation.

The geological context was also considered since confirmed and known caves in Ontario (Ford 1961; Thomas et al. 1979; Hitchcock et al. 1984) and Manitoba (Bilecki 2003) are primarily located in karst/limestone. The only known natural bat hibernaculum in British Columbia is formed from sandstone. Karst/limestone and sandstone are softer stones that succumb easily to speleogenesis (i.e., forming caves) via dissolution. Bedrock in the RSA is largely tonalite, granite and metavolcanic rock (NDMNRF 2021), hard stones that are less likely to harbour caves. Additionally, there is no known karst geology within the RSA. However, areas of exposed bedrock and cliffs were investigated for presence of deep fissures or talus caves that could potentially sustain suitable conditions for hibernation (temperatures above 0°C and elevated humidity) during the winter. Six cliffs or rock outcroppings (Cliff 1 to Cliff 6) were identified during ground and aerial surveys, of which four contained features that were potentially suitable for bat hibernation (Cliff 1, Cliff 2, Cliff 3, and Cliff 6) (Figure 2).

To confirm use of the potentially suitable abandoned mine and cliff sites as hibernacula by bats, acoustic bat surveys were conducted to capture fall swarming and spring emergence activity (Figure 2–18). From late August to early September 2021, 8 bat detectors were deployed at the four candidate abandoned mine

sites and 11 detectors were deployed at the four candidate cliff sites to capture swarming activity. Of these, six detectors were deployed along Cliff 1 at 100 m intervals and 1 to 2 detectors were deployed at all other potential hibernacula within 5 to 10 meters of the feature. Additionally, 4 bat detectors were placed within 20 to 100 m of the features to serve as control sites for the potential hibernacula to more accurately evaluate use of the features by hibernating bats. At one of these control sites (Cliff 1-control), the detector malfunctioned and no data could be collected.

From early May to early June 2022, bat detectors were re-deployed at the 2021 sites including five additional bat detectors along Cliff 1 and three additional control sites to capture bats potentially emerging from candidate hibernacula. Surveys at each feature also included active listening for five minutes with a heterodyne bat detector (Mini-3 Bat Detector, Ultra Sound Advice) tuned to 40 kHz and, where possible, a visual examination for hibernating bats within each feature with a high-intensity flashlight. To avoid disturbing any potentially hibernating bats, active surveys at each feature were kept brief (10 minutes maximum) and biologists did not touch or enter any feature. Data collected in 2021 and 2022 were sufficient to disqualify sites Cliff 2, Cliff 3 and M2 as bat hibernacula (see results, Section 3.5.2), so these sites were not surveyed in 2023.

Candidate hibernacula surveys in 2023 included the addition of three new control sites at Cliff 1 (Cliff 1-control2, Cliff 1-control3, and Cliff 1-control 4) of which one (Cliff 1-control3) malfunctioned and produced no data, and one new control site at Cliff 6 (Cliff 6-control2). Finally, candidate hibernacula surveys in 2023 aimed to obtain a more complete picture of seasonal activity trends to allow detection of any seasonal changes in activity that may result from bats swarming at the candidate hibernacula. To achieve this, bat acoustic monitoring at the candidate hibernacula ran from mid-July to late September and the recording schedule of bat detectors was modified accordingly for longer term monitoring. Specifically, detectors were set to record every second hour beginning at 30 minutes before sunset and ending 30 minutes after sunrise. This achieved a much longer monitoring period compared to the 2021 hibernacula survey, which allowed detection of any relative peaks in bat activity during the pre-hibernation period that could result from bat swarming activity.

Although in-person surveys could not be conducted to confirm bat swarming activity at the entrances of the candidate hibernacula due to safety concerns with conducting night surveys in remote areas, an attempt was made to obtain video confirmation with trail cameras. Browning Recon Force Elite HP5 trail cameras were used due to their high trigger speed, long infrared range, high-definition and high-frame rate videos. Cameras were set to trigger mode with the following settings: video length = 10 seconds, video quality = ultra, photo delay = 1 minute, capture timer = 9PM-12AM, trigger speed = fast, HDR = yes, IR flash power = blur reduction. One camera was deployed at the entrance of Cliff 6 and one was deployed at the entrance of M3 (adjacent to detector site M3-1). Both were deployed from July 15 to October 2, 2023.

2.7.3.1 Analyses of Swarming Survey Data

All methods for filtering and classifying recordings, including automated and manual species classification, were identical to those from surveys in June and July. However, given that the objectives for the potential hibernacula surveys differed from those for the maternity habitat surveys, an objective-specific approach was adopted for selecting calls for manual vetting. Candidate hibernacula surveys aimed to identify use by bats of potential bat hibernacula and, thus, swarming and emergence activity of SAR bats. Consequently, calls from these surveys selected for manual vetting included all those auto-classified as a SAR that were rare or unlikely to occur. These included all passes auto-classified as Northern Myotis, Eastern Small-Footed Myotis, and Tricolored Bat. Calls auto-classified as Eastern Red Bat were also manually vetted as these can often be misclassified Little Brown Myotis calls. These recordings represented 777 of 26,063 passes (2.3%) in 2021; 299 of 15,577 passes (1.9%) in 2022; and 3,503 of 85,189 passes in 2023. Additionally, all recordings

from 2021 and 2022 auto-classified as Little Brown Myotis or as an unknown high-frequency species were manually inspected for presence of Northern Myotis and Eastern Red Bat but were only reclassified if they could be confirmed to be either of those species. Given the large number of passes by high-frequency species recorded during hibernacula surveys in 2023 (30,572 passes), manual verification of passes auto-classified as an unknown high-frequency species or Little Brown Myotis was limited to 100 randomly selected passes from each group at each recording site. This amounted to 4,255 passes. Similar to 2021 and 2022, the auto-classification result for these passes was only changed if the pass could be confidently identified to either Northern Myotis or Eastern Red Bat. Of the manually vetted passes by high-frequency species (excluding passes auto-classified as Eastern Red Bat) from all 2021 to 2023 acoustic bat surveys, 370 of 37,455 (1.0%) were misclassified by the auto-classifier as Eastern Red Bat. Given this very low proportion, it can be safely assumed that most (approximately 99%) passes auto-classified as Little Brown Myotis or an unknown high-frequency species were of the genus Myotis (i.e., a SAR). Manually vetted auto classification results were replaced by the manual classification.

Several lines of evidence were used to assess potential use of an area as a hibernaculum by SAR bats:

- Activity of hibernating bat species was predicted to be higher at potential hibernacula compared to control sites.
- In late summer / early fall, SAR bats in Ontario congregate at the entrances of hibernacula to mate. If a bat detector is placed near a mating swarm, activity of hibernating species (mostly SAR) at the detector should be expected to be much higher than that of non-hibernating species as the former would be expected to pass near the detector much more frequently. Conversely, activity of hibernating species at detectors not located at a hibernaculum, including control sites, should be expected to be lower than or equal to that of non-hibernating species. A general linear model was used to compare average activity (passes passes hour) of high-frequency species (mostly hibernating species) to that of low-frequency species (mostly non-hibernating species) at each site.
- During the swarming period before the onset of hibernation, bats that hibernate generally continue to use summer roosts and regularly commute to hibernacula to swarm. These commutes can extend up to 12 km or more (Lowe 2012; Parsons et al. 2003). Therefore, hourly bat activity at swarming sites in late summer / fall should be expected to begin low and increase throughout the start of the night, peak in the middle of the night, and gradually decrease through the end of the night as bats return to their day roosts (Parsons et al. 2003). Hourly bat activity at potential hibernation sites and control sites was therefore examined for presence of such a pattern. Although no published records exist describing patterns of hourly bat activity during spring emergence from hibernacula, hourly bat activity may be expected to begin earlier compared to control sites. Figures of hourly activity of hibernating species were examined for such a pattern.
- Finally, the longer monitoring period at candidate hibernacula in 2023 which ran from mid-July to late September allowed detection of any relative peaks in bat activity during the pre-hibernation period that could result from bat swarming activity. Activity of bats was plotted against night and examined for either higher relative activity at candidate hibernacula during late summer / fall compared to mid-summer and for any significant peaks in activity during the late summer / fall period that may coincide with swarming behaviour by bats.

Although each of the patterns of activity or call features described above may suggest presence of a hibernaculum, individually they do not. For example, optimal foraging habitat or commuting behaviour may result in activity peaks at a site. Although these hypotheses have not been empirically tested, when considered together, they offer a means to identify sites that may merit further investigation.

2.8 Amphibians and Amphibian Breeding Habitat (Wetlands)

As stated above, ARUs were used in place of in-person surveys as access at night in remote locations was not feasible. In May 2022, 30 Amphibian and Marsh Bird ARUs were deployed in marsh wetlands across the RSA. Of these 30 units, 3 were moved to new locations in June and 1 unit (ARU36) was damaged after five days of recording. Additionally, the unit at MB1_ARU 34 malfunctioned and was replaced in June with a new unit (Table 2; Figure 2–9). These ARUs followed the same programming to monitor crepuscular/nocturnal animals, including marsh birds, owls, and nightjars (Section 2.4.7) and therefore covers the recommended survey windows in northern regions. The program aimed to meet the three-survey requirement outlined in the *Marsh Monitoring Program Participant's Handbook for Surveying Amphibians* (Bird Studies Canada 2009a) protocol; in northern Ontario survey 1 is May 1 to 15, survey 2 is June 1 to 15, and survey 3 is July 1 to 15. Note that use of Amphibian and Marsh Bird ARUs aimed to satisfy survey requirements for SWH; however, all ARUs were queried for anuran (i.e., frog and toad) calls, not just ARUs placed in specific locations. Surveyors also searched for individuals and egg masses along wetland shores while installing and refurbishing ARUs.

2.8.1.1 Autonomous Recording Unit Data Analysis

ARU data were screened for calling amphibeans by having a qualified biologist listen to a subset of three-minute audio files from ARU surveys. Three-minute audio files were used as this is the length of a survey following the Marsh Monitoring Program amphibian survey protocol (Bird Studies Canada 2009a). This protocol also recommends conducting three surveys per season, one in each of three time periods: May 1 to 15, June 1 to 15 and July 1 to 15. The protocol states that ambient temperatures during surveys should be as follows: above or equal to 5°C for the period of May 1 to 15, above or equal to 10°C for the period of June 1 to 15, and above or equal to 17°C for the period of July 1 to 15. The Marsh Monitoring Program amphibian survey protocol states that amphibians have more potential to call at the temperatures stated above during the respective time period.

Following the above guidelines, ARU recordings were divided into six equal 15-day time periods: May 1 to 15, May 16 to 31, June 1 to 15, June 16 to 30, July 1 to 15, and July 16 to 31 (hereafter P1 to P6). ARU data were also filtered by weather. Data from the three closest ECCC weather stations to the Project site were used to filter the recordings: Ear Falls (AUT) at approximately 100 km to the southwest, Red Lake (Airport) to the west by approximately 120 km, and Pickle Lake (AUT and Airport) approximately 130 km to the east. The weather at all three stations between the hours of 18:00 to 24:00 was averaged to create an estimation of weather at the Project site. Finally, recordings were also filtered by time, where only those occurring one hour after sunset were used. Weather criteria used for filtering followed temperature guidelines from the Marsh Monitoring Program amphibian survey protocol (Bird Studies Canada 2009a). Wind speed was used as another filter on the recordings. Only recordings with a wind speed less than 11 km/h were used. Filtering by wind increase the chances of hearing calling amphibians as there is less background from the wind blowing.

In line with the protocol, one recording from each recommended time period (P1, P3 and P5) meeting suitable weather requirements was targeted for transcription. However, when data for one of these time periods at a given site did not exist, or did not meet suitable weather criteria as dictated by the protocol, recordings outside these periods were used (P2, P4 or P6). In all cases, an effort was made to ensure, to the extent feasible, that three surveys were conducted at each site and that there was a 15-day delay between each survey at each site. Selected three-minute clips were transcribed by a qualified biologist listening to each clip. The qualifted biologist collected information on amphibian call level code, amphibian abundance count (where applicable) and background noise. Data were not collected on the distance or direction of

calling amphibians. Distance and direction of calling amphibians could not be accurately estimated from an audio recording.

2.9 Opportunistic Wildlife Sightings

A country foods sampling program was developed based on data available from available Traditional Land Use studies from the region and from the First Nations Food, Nutrition and Environment Study; Wabauskang Traditional Knowledge and Land Use; and the Cat Lake Slate Falls Land Use Plan. The 2022 Human and Environmental Health Risk Assessment country foods field program completed small mammal samples from the mine site area September 24 and 25, 2022. The inventory of small mammals encountered was included in the baseline knowledge of species presence. Additionally, during the surveys outlined above, opportunistic surveys and incidental sightings of wildlife and evidence or signs of wildlife use were recorded to further document animal use.

Table 2-1: Wolverine SI(1): Ecosystem Type

Ecosystem Type	HSI Value
Intermediate Conifer Wetland (B128)	1.0
All other natural ecosystem types	0.8
All non-natural ecosystem types and open water bodies	0

Table 2-2: Wolverine SI(3): Anthropogenic Disturbance

Type of Disturbance	Buffer Width (m)	HSI Value
Winter Roads, Gravel Roads, Forestry Access, Transmission Lines	500	0.5
Year-round operations and facilities (e.g., buildings), municipal areas, all-season (paved) roads	1,000	0.3

Table 2-3: Predicted Wolverine Habitat Suitability Index (HSI) Values and Corresponding HSI Scores

HSI Score	Qualitative Rank	HSI Value
1	Nil	0.0
2	Low	0.0 – 0.2
3	Moderate	0.2 – 0.6
4	High	0.6 – 1.0

Note:
If an HSI value fell on a cut-point (0.2, 0.6, etc.), the value was included in the lower HSI score.

Table 2-4: Summary of 2021 And 2022 Surveys

Survey Type	Stations	Date
Winter Aerial surveys	Strip transects with an east–west orientation, spaced at 2 km intervals to sample the designated survey area. The designated survey area was adjusted from 6,681 km^2 in 2021 to 12,253 km^2 in 2022 to 16,276 km^2 in 2023 and 17,425 km^2 in 2024based on learnings from the annual survey programs.	February 27 to March 5, 2021 February 24-March 5, 2022 January 26 – February 6, 2023 February 17 – 25, 2024
Breeding bird surveys	220 point count stations completed	June 1 to June 10, 2021
Acoustic recorder deployment	31 locations with sonic ARUs deployed for birds 36 locations with ultrasonic bat detectors deployed for bats	
Vegetation surveys	82 locations surveyed	
Breeding bird surveys	225 point count stations completed	June 24 to July 1, 2021
Vegetation surveys	111 locations surveyed	August 26 to September 7, 2021
Potential bat hibernacula investigations and acoustic recorder deployment and pickup	20 bat detectors deployed at eight sites	
Bat maternity roost habitat assessments	116 plots completed	
Aerial surveys	145 flight lines in an east–west orientation, spaced at 2 km intervals covering 12,253 km^2	February 24 to March 6, 2022
Owl surveys	Seven stations completed	

Table 2-4: Summary of 2021 And 2022 Surveys		
Survey Type	**Stations**	**Date**
Acoustic recorder deployment	30 stations with ARUs deployed for birds and amphibians 26 bat detectors deployed at eight sites for bat hibernacula	May 4 to May 10 2022
Migratory bird (waterfowl stopover and staging areas, colonial nesting bird breeding habitat)	29 stations completed	
Owl surveys	12 stations completed	
Vegetation and wetland surveys	30 locations surveyed	
Breeding bird surveys	162 point count stations completed	June 1 to June 10 2022
Migratory bird (waterfowl stopover and staging areas, colonial nesting bird breeding habitat, marsh bird)	29 stations completed	
Acoustic recorder deployment including Eastern Whip-poor-will ARU / habitat surveys	25 ARUs moved and 25 additional ARUs deployed for birds and amphibians 27 stations with bat detectors deployed for bat maternity roost habitat	
Vegetation and wetland surveys	141 locations surveyed	
Bat maternity roost habitat assessments	10 plots surveyed	
Aquatic feeding habitat and Caribou calving habitat	15 target Caribou calving locations plus a cluster west of Slate Falls	
Breeding bird surveys	83 point count stations completed	June 29 to July 8 2022
Acoustic recorder deployment	13 additional locations with ARUs deployed for birds 17 locations with bat detectors deployed for bats	
Vegetation and wetland surveys	27 locations completed	
Bat maternity roost habitat assessments	Two plots surveyed	
Vegetation and wetland surveys	90 locations completed	August 19 to 28 2022
Aerial surveys	Flight lines in an east–west orientation, spaced at 2 km intervals covering 16,276 km^2	January 26, 2022, to February 6, 2023
Wolverine surveys	25 stations (each station: two cameras and one baited hair snag run pole)	February 23, 2023, to April 18, 2023
Acoustic recorder deployment	26 stations with bat detectors deployed for bat maternity roost habitat	May 25, 2023, to May 29, 2023
Bat maternity roost habitat assessments	39 plots surveyed	
Potential bat hibernacula surveys	26 bat detectors deployed at five sites	July 15, 2023, to July 17, 2023
	Two infrared trail cameras deployed at two sites	

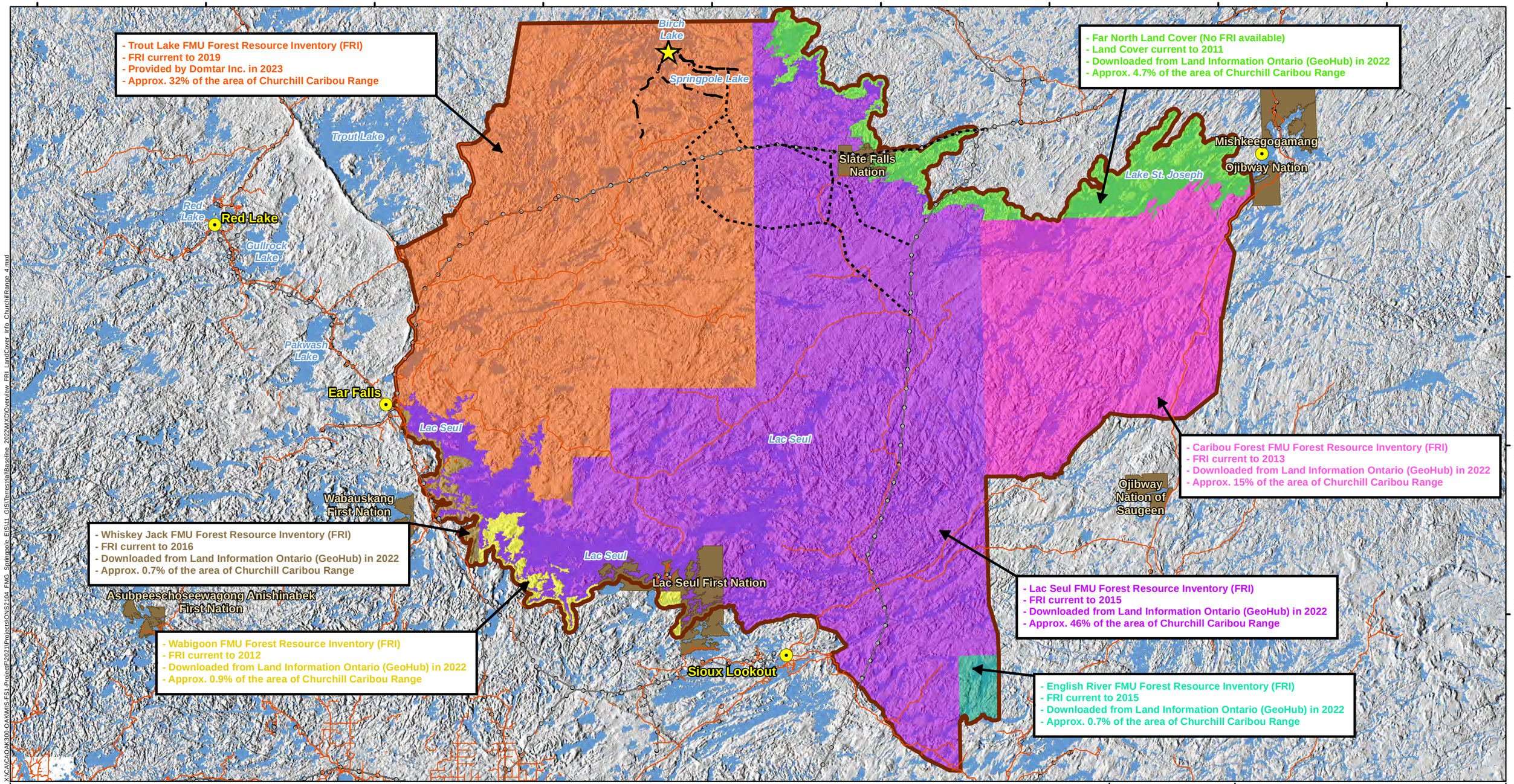
Table 2-5: 2022 Autonomous Recording Unit Deployment Timeframe

ARU name	Purpose	Deployed	Started Recording	Stopped Recording
ARU31	Amphibian and Marsh Bird	May 9	June 8	July 20
ARU32	Amphibian and Marsh Bird	May 10	May 11	July 16
ARU33	Amphibian and Marsh Bird	May 7	May 11	June 9
ARU35	Amphibian and Marsh Bird	May 9	May 11	July 21
ARU36	Amphibian and Marsh Bird	May 7	May 11	May 15
ARU37	Amphibian and Marsh Bird	May 7	May 11	August 6
ARU38	Amphibian and Marsh Bird	May 9	May 11	June 4 (1)
ARU39	Amphibian and Marsh Bird	May 8	May 11	June 4(1)
ARU40	Amphibian and Marsh Bird	May 7	May 11	August 3
ARU41	Amphibian and Marsh Bird	May 7	May 11	June 9
ARU42	Amphibian and Marsh Bird	May 9	May 11	June 13
ARU43	Amphibian and Marsh Bird	May 9	May 11	July 2
ARU44	Amphibian and Marsh Bird	May 9	May 11	May 31
ARU45	Amphibian and Marsh Bird	May 10	May 11	July 21
ARU46	Amphibian and Marsh Bird	May 7	May 11	June 9
ARU47	Amphibian and Marsh Bird	May 9	May 11	June 4
ARU48	Amphibian and Marsh Bird	May 9	May 11	June 13
ARU49	Amphibian and Marsh Bird	May 10	May 11	July 18
ARU50	Amphibian and Marsh Bird	May 8	May 11	July 25
ARU51	Amphibian and Marsh Bird	May 7	May 11	June 29
ARU52	Amphibian and Marsh Bird	May 9	May 11	July 22
ARU53	Amphibian and Marsh Bird	May 9	May 11	June 12
ARU54	Amphibian and Marsh Bird	May 7	May 11	August 3
ARU55	Amphibian and Marsh Bird	May 7	May 11	June 12
ARU56	Amphibian and Marsh Bird	May 7	May 11	June 9
ARU57	Amphibian and Marsh Bird	May 7	May 11	June 9
ARU58	Amphibian and Marsh Bird	May 8	May 11	July 22
ARU59	Amphibian and Marsh Bird	May 9	May 11	June 3(1)
ARU60	Amphibian and Marsh Bird	May 8	May 11	July 25
MB1_ARU34	Amphibian and Marsh Bird	May 7	May 11	June 8(2)
MB1_ARU34	Amphibian and Marsh Bird	June 8	June 8	July 2(2)
EWPW-1	Eastern Whip-poor-will	June 1	June 1	August 10
EWPW-10	Eastern Whip-poor-will	June 10	June 10	August 15
EWPW-11	Eastern Whip-poor-will	July 7	July 7	August 15
EWPW-12	Eastern Whip-poor-will	July 7	July 7	August 4
EWPW-13	Eastern Whip-poor-will	July 7	July 7	August 3
EWPW-14	Eastern Whip-poor-will	July 7	July 7	August 1
EWPW-2	Eastern Whip-poor-will	June 1	June 1	June 30
EWPW-3	Eastern Whip-poor-will	June 1	June 1	July 26
EWPW-4	Eastern Whip-poor-will	June 1	Damaged	
EWPW-7	Eastern Whip-poor-will	June 3	June 3	July 7
EWPW-8	Eastern Whip-poor-will	June 3	June 3	July 7
EWPW-9	Eastern Whip-poor-will	June 3	June 3	August 6
A13	Other	June 3	June 3	July 11
A28	Other	June 3	June 3	July 7
ARU 1	Other	June 6	June 6	August 1
ARU 10	Other	June 5	June 5	August 4
ARU 11	Other	June 7	June 7	July 4

Table 2-5: 2022 Autonomous Recording Unit Deployment Timeframe

ARU name	Purpose	Deployed	Started Recording	Stopped Recording
ARU 11-2	Other	July 4	July 4	August 6
ARU 12	Other	June 4	June 4	August 1
ARU 14	Other	July 5	July 5	July 31
ARU 15	Other	July 5	July 5	July 29
ARU 16	Other	July 6	July 6	July 26
ARU 17	Other	July 6	July 6	July 26
ARU 18	Other	July 6	July 6	July 29
ARU 19	Other	July 8	July 7	August 9
ARU 2	Other	June 7	June 7	July 26
ARU 20	Other	July 8	Damaged	
ARU 21	Other	July 8	July 8	August 5
ARU 3	Other	June 5	June 5	June 30
ARU 4	Other	June 5	June 5	August 10
ARU 5	Other	June 9	June 9	August
ARU 6	Other	June 9	June 9	July 6
ARU 7	Other	June 9	June 9	August 14
ARU 8	Other	June 9	June 9	August 16
ARU 9	Other	June 5	June 5	August 5
B28	Other	June 1	June 1	July 22
C19-80	Other	June 10	June 10	August 4

Notes:
(1) ARU38, 39, and 59 were retrieved and moved to new locations.
(2) MB1_ARU34 was switched with a new unit on June 8.



LEGEND

- Springpole Project Location
- Proposed Transmission Line Alternatives
- Mine Access Road Alternatives
- Town
- Existing Road
- Existing Transmission Line
- First Nation Reserve (labelled with name)
- Churchill Range Boundary
- Waterbody

Churchill Caribou Range Land Cover and Forest Resource Inventory Coverage Areas

- Far North Land Cover (No FRI available)
- Caribou Forest FMU Forest Resource Inventory (FRI)
- English River FMU Forest Resource Inventory (FRI)
- Lac Seul FMU Forest Resource Inventory (FRI)
- Trout Lake FMU Forest Resource Inventory (FRI)
- Wabigoon FMU Forest Resource Inventory (FRI)
- Whiskey Jack FMU Forest Resource Inventory (FRI)

0 25 50 100 150 200 250 Kilometres

NOTES:
- Topographic information extracted from LIO, MNRF.

Datum: NAD83
Projection: UTM Zone 15N

First Mining Gold

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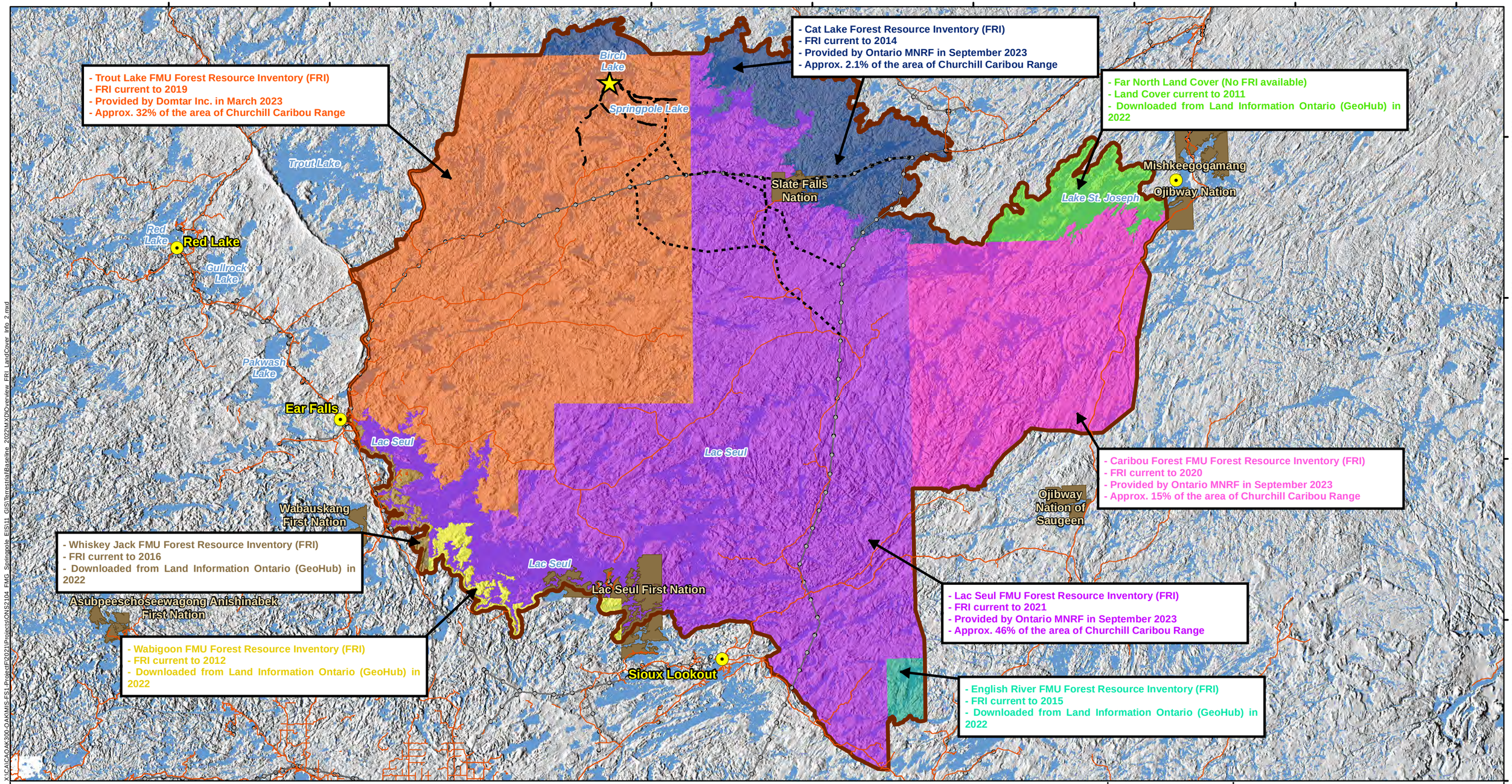
SPRINGPOLE GOLD PROJECT

Summary Map of Churchill Caribou Range Land Cover and Forest Resource Inventory used for Field Planning

PROJECT N^{O}: ONS2104 | **FIGURE: 2-1**

SCALE: 1:855,000 | DATE: October 2024



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LEGEND

- Springpole Project Location
- Proposed Transmission Line Alternatives
- Mine Access Road Alternatives
- Town
- Existing Road
- Existing Transmission Line
- First Nation Reserve (labelled with name)
- LSA / RSA Outer Boundary
- Waterbody

Land Cover and Forest Resource Inventory Coverage Areas

- Caribou Forest FMU Forest Resource Inventory (FRI)
- English River FMU Forest Resource Inventory (FRI)
- Lac Seul FMU Forest Resource Inventory (FRI)
- Trout Lake FMU Forest Resource Inventory (FRI)
- Wabigoon FMU Forest Resource Inventory (FRI)
- Whiskey Jack FMU Forest Resource Inventory (FRI)
- Cat Lake Forest Resource Inventory (FRI)
- Far North Land Cover (No FRI available)

NOTES:
- Topographic information extracted from LIO, MNRF.

0 25 50 100 150 200 250 Kilometres

Datum: NAD83
Projection: UTM Zone 15N

First Mining Gold

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SPRINGPOLE GOLD PROJECT

Updated Summary Map of Churchill Caribou Range Land Cover and Forestry Resource Inventory used for Field Planning

PROJECT N°: ONS2104 | **FIGURE: 2-2**

SCALE: 1:895,000 | DATE: October 2024

480000 500000 520000 540000 560000 580000 600000 620000 640000

5700000 5680000 5660000 5640000

Pringle Lake
Birch Lake
L-18
L-17
L-1
L-2
L-19
L-3
L-4
L-5
L-6
L-16
Dole Lake
L-20
Springpole Lake (North Basin)
L-10
L-12
L-11
L-13
Cromarty Lake
Satterly Lake
Seagrave Creek
2 Km
Pakwash Lake

Carillon Lake
Kapikik Lake
Gitche Lake
McVicar Lake
Dobie Lake
Meen Lake
Zionz Lake
Birch Lake
Fawcett Lake
Springpole Lake
Gull Lake
Obaskaka Lake
Bertha Lake
Kezik Lake
Fry Lake
SLATE FALLS NATION
Bamaji Lake
Perrigo Lake
Sesikinaga Lake
Jeanette Lake
Blackstone Lake
Lake St. Joseph
Otatakan Lake
Churchill Lake
St. Raphael Lake

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LEGEND

- Proposed Mine Feature
- Vegetation Community Local Study Area
- Vegetation Community Regional Study Area
- Vegetation Survey Plots (2022)
- Vegetation Survey Plots (2021)
- Vegetation Survey Plots (2011 - 2019)
- Exsiting Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.
- Vegetation survey plots (2011-2019) conducted by NorthWinds Environmental Services.

Datum: NAD83
Projection: UTM Zone 15N

N W E S

0 10 20 40 60 80 100 Kilometres

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SPRINGPOLE GOLD PROJECT

Vegetation Survey Plots

PROJECT N°: ONS2104 | **FIGURE: 2-3**

SCALE: 1:430,000 | DATE: October 2024

480000 500000 520000 540000 560000 580000 600000 620000 640000

5700000 5680000 5660000 5640000

Pringle Lake
Birch Lake
L-18
L-17
L-1
L-2
L-19
L-3
L-4
L-5
L-6
L-16
Dole Lake
L-20
L-10
L-12
L-11
L-13
Springpole Lake (North Basin)
Cromarty Lake
Satterly Lake
Seagrave Creek
Pakwash Lake
2 Km

Carillon Lake
Kapikik Lake
Gitche Lake
McVicar Lake
Dobie Lake
Meen Lake
Zionz Lake
Birch Lake
Fawcett Lake
Springpole Lake
Gull Lake
Obaskaka Lake
Bertha Lake
Kezik Lake
Fry Lake
SLATE FALLS NATION
Bamaji Lake
Perrigo Lake
Sesikinaga Lake
Jeanette Lake
Blackstone Lake
Lake St. Joseph
Otatakan Lake
Churchill Lake
St. Raphael Lake

X:\CAD\AOA\300-OA\MIS-FS1-Project\P2021\Projects\ONS2104_FMG_Springpole_EIS\11_GIS\Terrestrial\Baseline_2022\MXD\Wetland_Survey_Plots_4.mxd

LEGEND

- Proposed Mine Feature
- Wetland Local Study Area
- Wetland Regional Study Area
- Wetland Survey Plots (2022)
- Wetland Survey Plots (2021)
- Surveyed Wetlands (2012)
- Exsiting Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.
- Surveyed Wetlands (2012) conducted by DST Consulting .Engineers

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SPRINGPOLE GOLD PROJECT

Wetland Survey Plots

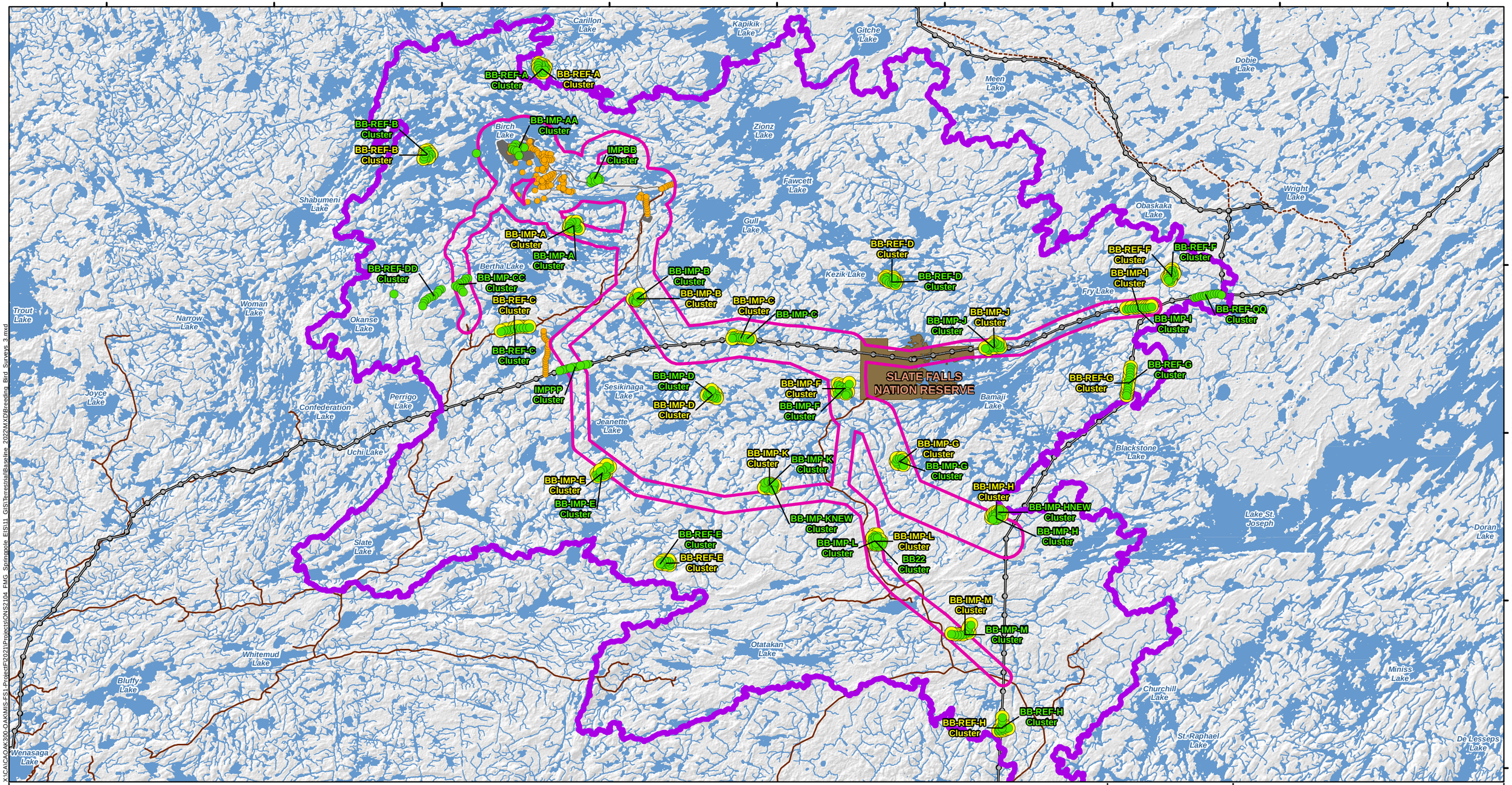
Datum: NAD83
Projection: UTM Zone 15N

N W E S

0 10 20 40 60 80 100 Kilometres

PROJECT N^{O}: ONS2104 | **FIGURE: 2-4**

SCALE: 1:430,000 | DATE: October 2024



LEGEND

- Proposed Mine Feature
- Species at Risk Bird Local Study Area
- Species at Risk Bird Regional Study Area
- Breeding Bird Survey Locations (2022) (Labelled with cluster ID. Each cluster consists of 8-12 survey locations)
- Breeding Bird Survey Locations (2021) (Labelled with cluster ID. Each cluster consists of 8-12 survey locations)
- Breeding Bird Survey Locations (2011 - 2019)
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

0 10 20 40 60 80 100 Kilometres

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.
- Breeding bird survey locations (2011-2019) conducted by NorthWinds Environmental Services.

Datum: NAD83
Projection: UTM Zone 15N

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SPRINGPOLE GOLD PROJECT

Breeding Bird Surveys

PROJECT N°: ONS2104 | **FIGURE: 2-5**

SCALE: 1:430,000 | DATE: October 2024

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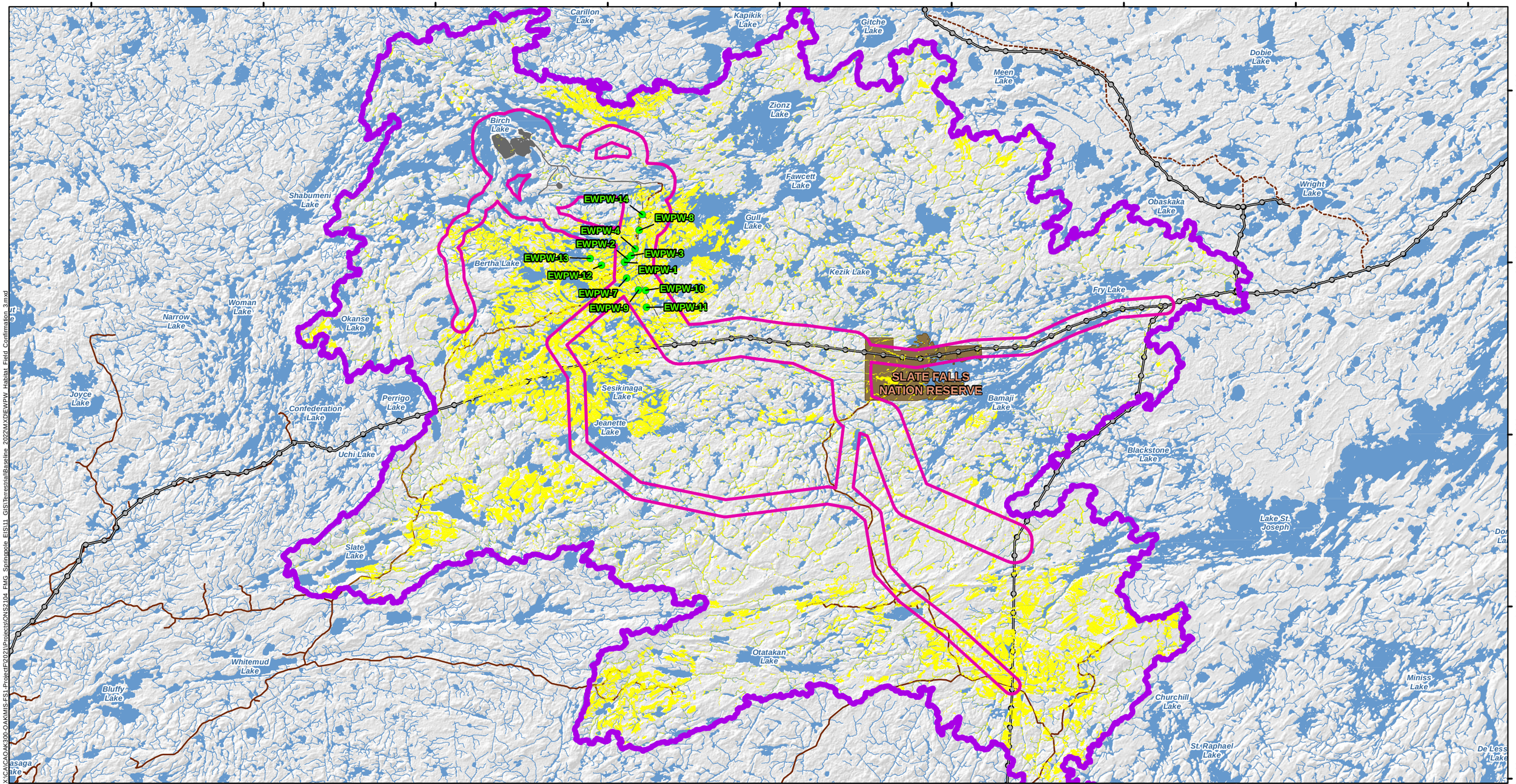

LEGEND

- Proposed Mine Feature
- Species at Risk Bird Local Study Area
- Species at Risk Bird Regional Study Area
- Eastern Whip-poor-will Autonomous Recording Units (2022) (Labelled with ID)
- Potential Eastern Whip-poor-will Habitat
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

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SPRINGPOLE GOLD PROJECT

Eastern Whip-poor-will Habitat Field Confirmation Locations

Datum: NAD83
Projection: UTM Zone 15N

N W E S

0 10 20 40 60 80 100 Kilometres

PROJECT N°: ONS2104

FIGURE: 2-6

SCALE: 1:420,000

DATE: October 2024

460000 480000 500000 520000 540000 560000 580000 600000 620000

5700000 5680000 5660000 5640000 5620000

Birch Lake
L-18
L-17
L-1
L-2
L-19
Dole Lake
L-3
L-20
L-4
L-5
L-6
L-16
Springpole Lake (North Basin)
OWL A3M
OWL A6
OWL A7M
OWL 1
OWL 2
OWL 3
OWL 4
OWL 5
OWL 6
OWL 8
1
2
3
4
5
6
7
1 Km

Carillon Lake
Kapikik Lake
Gitche Lake
Meen Lake
Dobie Lake
Zionz Lake
Fawcett Lake
Gull Lake
Obaskaka Lake
Springpole Lake
Bertha Lake
Kezik Lake
Fry Lake
SLATE FALLS NATION RESERVE
Perrigo Lake
Sesikinaga Lake
Bamaji Lake
Jeanette Lake
Blackstone Lake
Lake St. Joseph
Slate Lake
Otatakan Lake
Churchill Lake
St. Raphael Lake
Bruce Lake
Bluffy Lake
Pakwash Lake
Wenasaga Lake

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LEGEND

- Proposed Mine Feature
- Species at Risk Bird Local Study Area
- Species at Risk Bird Regional Study Area
- Owl Survey Locations (2022) (Labelled with ID)
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

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SPRINGPOLE GOLD PROJECT

Owl Survey Locations

Datum: NAD83
Projection: UTM Zone 15N

N W E S

0 10 20 40 60 80 100 Kilometres

PROJECT N°: ONS2104 | **FIGURE: 2-7**

SCALE: 1:430,000 | DATE: October 2024

500000 520000 540000 560000 580000 600000 620000 640000 660000

5700000 5680000 5660000 5640000 5620000

Carillon Lake
Kapikik Lake
Gitche Lake
Dobie Lake
Meen Lake
Wright Lake
Obaskaka Lake
Zionz Lake
Fawcett Lake
Gull Lake
Shabumeni Lake
Birch Lake
Bertha Lake
Kezik Lake
Fry Lake
Trout Lake
Narrow Lake
Woman Lake
Okanse Lake
Joyce Lake
Perrigo Lake
Confederation Lake
Sesikinaga Lake
Jeanette Lake
Bamaji Lake
Uchi Lake
Blackstone Lake
Lake St. Joseph
Doran Lake
Slate Lake
Whitemud Lake
Otatakan Lake
Bluffy Lake
Wenasaga Lake
Miniss Lake
Churchill Lake
St. Raphael Lake
De Lesseps Lake

WF1 WF2 WF3 WF4 WF5 WF5/WF4 WF6 WF7 WF8 WF9 WF10 WF11 WF12 WF13 WF14 WF14
Camp

SLATE FALLS NATION RESERVE

X:\CA\CAOAK300-OAKMIS-FS1-Project\Project\2021\Projects\ONS2104 FMG Springpole EIS\11 GIS\Terrestrial\Baseline 2022\MXD\Migratory Bird Surveys 3.mxd

LEGEND

- Proposed Mine Feature
- Species at Risk Bird Local Study Area
- Species at Risk Bird Regional Study Area
- Migratory Song Bird Survey Location (2022) (Labelled with ID)
- Migratory Waterfowl Survey Location (2022) (Labelled with ID)
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

FIRST MINING GOLD

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SPRINGPOLE GOLD PROJECT

Migratory Bird Survey Locations

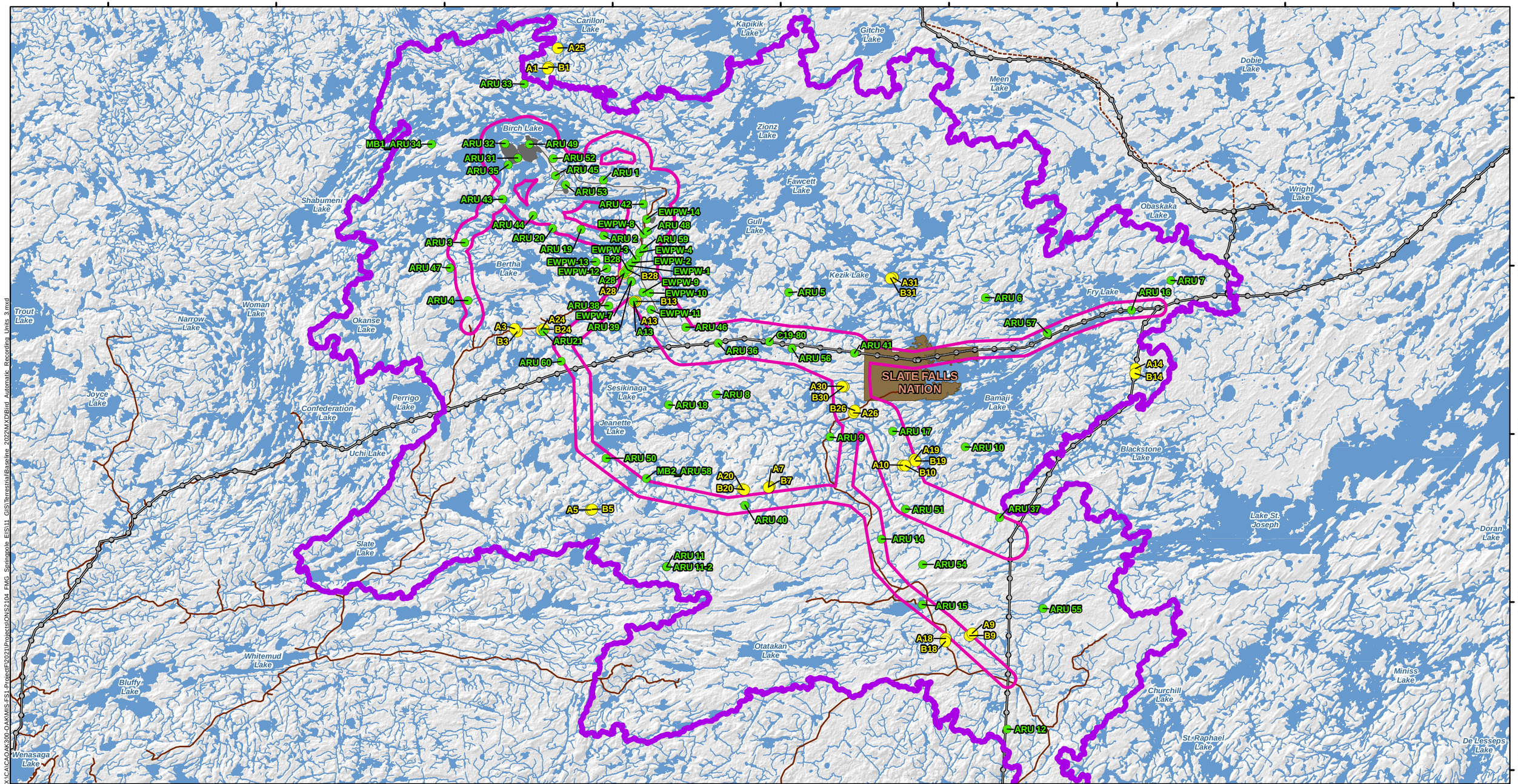
Datum: NAD83
Projection: UTM Zone 15N

N W E S

0 10 20 40 60 80 100 Kilometres

PROJECT N°: ONS2104 | **FIGURE: 2-8**

SCALE: 1:430,000 | DATE: October 2024



LEGEND

- Proposed Mine Feature
- Species at Risk Bird Local Study Area
- Species at Risk Bird Regional Study Area
- Bird Autonomous Recording Units (2022) (Labelled with ID)
- Bird Autonomous Recording Units (2021) (Labelled with ID)
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

Datum: NAD83
Projection: UTM Zone 15N

0 10 20 40 60 80 100 Kilometres

FIRST MINING GOLD

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SPRINGPOLE GOLD PROJECT

Bird Autonomous Recording Units

PROJECT N°: ONS2104	**FIGURE: 2-9**
SCALE: 1:430,000	DATE: October 2024

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440000 480000 520000 560000 600000 640000 680000 720000

5760000 5720000 5680000 5640000

Kinloch Range

Ozhiski Range

Pikangikum First Nation

Cat Lake First Nation

Cat Lake

Berens Range

Project Site

Birch Lake

Springpole Lake

Kinloch Range

Trout Lake

Slate Falls Nation

Mishkeegogamang Ojibway Nation

Lake St. Joseph

Red Lake

Red Lake

Gullrock Lake

Sydney Range

Pakwash Lake

Ear Falls

Churchill Range

Brightsand Range

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LEGEND

- Springpole Project Location
- Proposed Transmission Line Alternatives
- Mine Access Road Alternatives
- Town
- Existing Road
- Existing Transmission Line
- First Nation Reserve (labelled with name)
- Caribou Range Boundary (labelled with name)
- Waterbody
- Aerial Survey Study Area (2023)
- Aerial Survey Study Area (2022)
- Aerial Survey Study Area (2021)
- Flight Lines (2 km spacing)

NOTES:
- Topographic information extracted from LIO, MNRF.
- Aerial survey was conducted between Feb. 24, 2022 and March 6, 2022
- Aerial survey was conducted between Jan. 26, 2023 and Feb. 6, 2023

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SPRINGPOLE GOLD PROJECT

Winter Aerial Survey Flight Lines 2021, 2022, 2023

Datum: NAD83
Projection: UTM Zone 15N

N W E S

0 25 50 100 150 200 Kilometres

PROJECT N°: ONS2104 | **FIGURE: 2-10a**

SCALE: 1:800,000 | DATE: October 2024

440000 480000 520000 560000 600000 640000 680000 720000

5760000 5720000 5680000 5640000

BLOCK A:
- 22 flight lines (varies 30 km long to 60 km long)
- Flight lines spaced at 2 km apart
- 1,063 km total flight line distance
- General area covered is 2,091 km²

BLOCK B:
- 22 flight lines (varies 31 km long to 50 km long)
- Flight lines spaced at 2 km apart
- 998 km total flight line distance
- General area covered is 1,974 km²

BLOCK C:
- 41 flight lines (varies 53 km long to 80 km long)
- Flight lines spaced at 2 km apart
- 2,678 km total flight line distance
- General area covered is 5,370 km²

BLOCK D:
- 19 flight lines (varies 36 km long to 61 km long)
- Flight lines spaced at 2 km apart
- 1,011 km total flight line distance
- General area covered is 2,017 km²

BLOCK E:
- 22 flight lines (all 82 km long)
- Flight lines spaced at 2 km apart
- 1,804 km total flight line distance
- General area covered is 3,727 km²

BLOCK F:
- 22 flight lines (varies 29 km long to 55 km long)
- Flight lines spaced at 2 km apart
- 1,133 km total flight line distance
- General area covered is 2,246 km²

Block A
Block B
Block C
Block D
Block E
Block F

Kinloch Range
Ozhiski Range
Berens Range
Sydney Range
Churchill Range
Brightsand Range

Pikangikum First Nation
Berens
Cat Lake First Nation
Cat Lake
Project Site
Birch Lake
Springpole Lake
Slate Falls Nation
Trout Lake
Red Lake
Gullrock Lake
Pakwash Lake
Ear Falls
Lake St. Joseph
Mishkeegogamang Ojibway Nation

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LEGEND

- Springpole Project Location
- Proposed Transmission Line Alternatives
- Mine Access Road Alternatives
- Town
- Existing Road
- Existing Transmission Line
- First Nation Reserve (labelled with name)
- Caribou Range Boundary (labelled with name)
- Waterbody
- Caribou Aerial Survey Blocks (labelled on map)
- Flight Lines (2 km spacing)

NOTES:
- Topographic information extracted from LIO, MNRF.

0 25 50 100 150 200 Kilometres

Datum: NAD83
Projection: UTM Zone 15N

First Mining Gold

wsp

SPRINGPOLE GOLD PROJECT

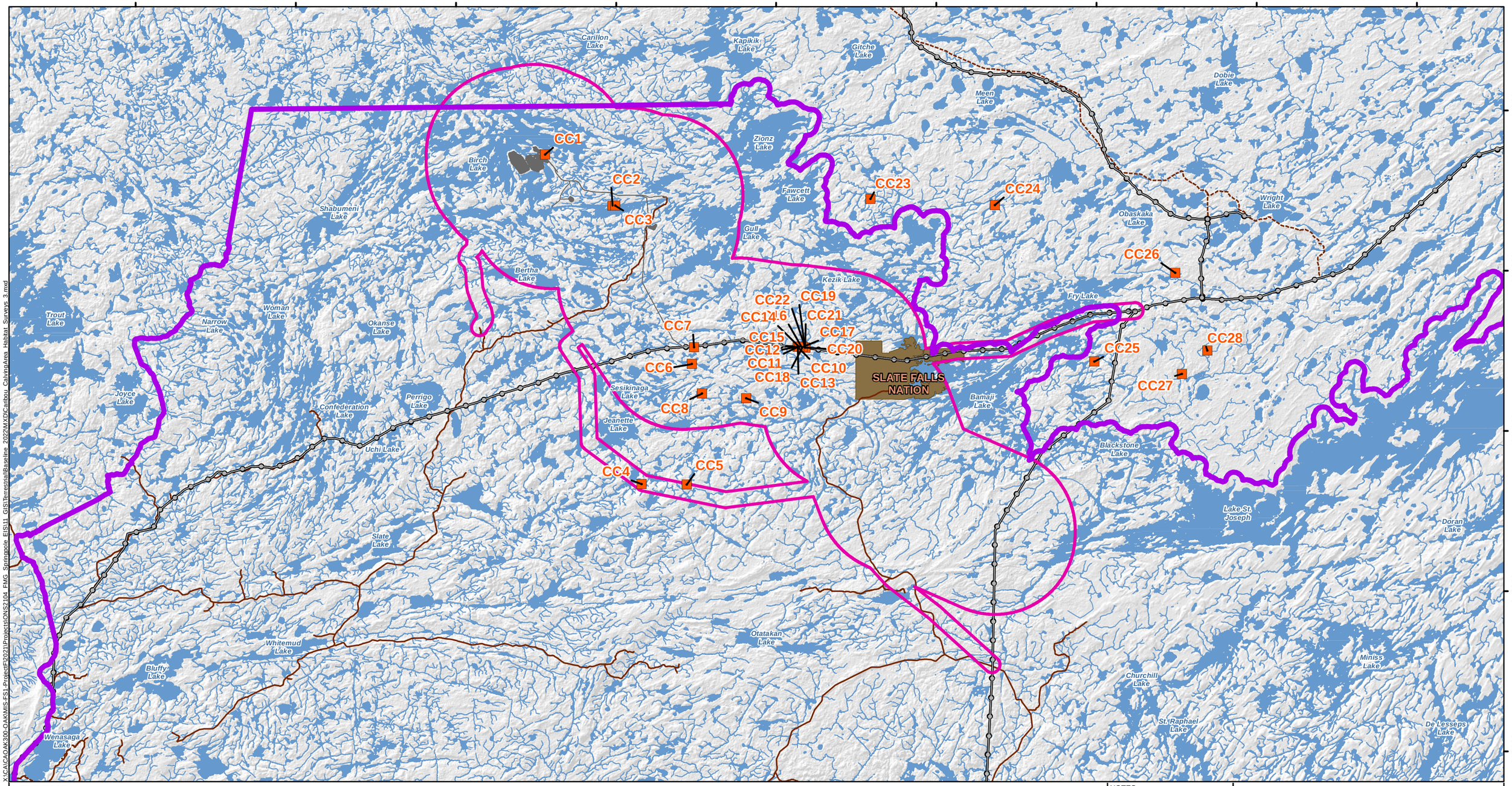
Winter Aerial Survey Flight Lines 2024

PROJECT N°: ONS2104 | **FIGURE: 2-10b**

SCALE: 1:800,000 | DATE: October 2024

Figure 2–11: Caribou Collar Locations Summary (Winter 2023)

Confidential



X:\CA\CAOAK300-OAK\MIS-FS1-Project\P2021\Projects\ONS2104_FMG_Springpole_EIS\11_GIS\Terrestrial\Baseline_2022\MXD\Caribou_CalvingArea_Habitat_Surveys_3.mxd

LEGEND

- Proposed Mine Feature
- Potential Caribou Calving Habitat Area Surveys (labelled with ID)
- Large Mammal / Species at Risk Caribou (Boreal) / Species at Risk Wolverine Local Study Area
- Large Mammal / Species at Risk Caribou (Boreal) / Species at Risk Wolverine Regional Study Area
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

0 10 20 40 60 80 100 Kilometres

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

Datum: NAD83
Projection: UTM Zone 15N

N W E S

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WSP

SPRINGPOLE GOLD PROJECT

Caribou Calving Area Habitat Surveys

PROJECT N°: ONS2104 | **FIGURE: 2-12**

SCALE: 1:450,000 | DATE: October 2024

500000 520000 540000 560000 580000 600000 620000 640000 660000

5700000 5680000 5660000 5640000 5620000

Carillon Lake
Kapikik Lake
Gitche Lake
Dobie Lake
Meen Lake
Zionz Lake
Birch Lake
Fawcett Lake
Wright Lake
Obaskaka Lake
Shabumeni Lake
Gull Lake
Bertha Lake
Kezik Lake
Fry Lake
Trout Lake
Narrow Lake
Woman Lake
Okanse Lake
Joyce Lake
Perrigo Lake
Confederation Lake
Sesikinaga Lake
Jeanette Lake
Bamaji Lake
Uchi Lake
Blackstone Lake
Lake St. Joseph
Doran Lake
Slate Lake
Whitemud Lake
Otatakan Lake
Bluffy Lake
Churchill Lake
Miniss Lake
St. Raphael Lake
De Lesseps Lake
Wenasaga Lake

SLATE FALLS NATION

MAFA-LIO-1
MAFA-LIO-2
MAFA-LIO-22
MAFA-NWES-1
MAFA-NWES-2
MAFA-LIO-3
MAFA-LIO-4
MAFA-LIO-5
MAFA-LIO-7
MAFA-LIO-9
MAFA-LIO-10
MAFA-LIO-14
MAFA-LIO-15
MAFA-LIO-18
MAFA-LIO-23
MAFA-LIO-25
MAFA-LIO-27
MAFA-LIO-29
MAFA-LIO-30
MAFA-LIO-31
MAFA-LIO-32
MAFA-LIO-36
MAFA-LIO-46
MAFA-LIO-47
MAFA-LIO-49
MAFA-LIO-50
MAFA-LIO-56
MAFA-LIO-57
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MAFA-LIO-74
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MAFA-LIO-77
MAFA-LIO-83
MAFA-LIO-86
MAFA-LIO-91
MAFA-LIO-93
MAFA-LIO-94
MAFA-LIO-95
MAFA-LIO-97
MAFA-LIO-107
MAFA-LIO-108
MAFA-LIO-112
MAFA-LIO-116
MAFA-LIO-123
MAFA-LIO-124
MAFA-LIO-128
MAFA-LIO-137
MAFA-LIO-142
MAFA-LIO-151
MAFA-LIO-154
MAFA-LIO-155
MAFA-LIO-164
MAFA-LIO-166
MAFA-LIO-167
MAFA-LIO-168
MAFA-LIO-173
MAFA-LIO-174
MAFA-LIO-175
MAFA-LIO-180

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LEGEND

- Proposed Mine Feature
- Moose Aquatic Feeding Area Survey Locations
- Large Mammal / Species at Risk Caribou (Boreal) / Species at Risk Wolverine Local Study Area
- Large Mammal / Species at Risk Caribou (Boreal) / Species at Risk Wolverine Regional Study Area
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

0 10 20 40 60 80 100 Kilometres

Datum: NAD83
Projection: UTM Zone 15N

N W E S

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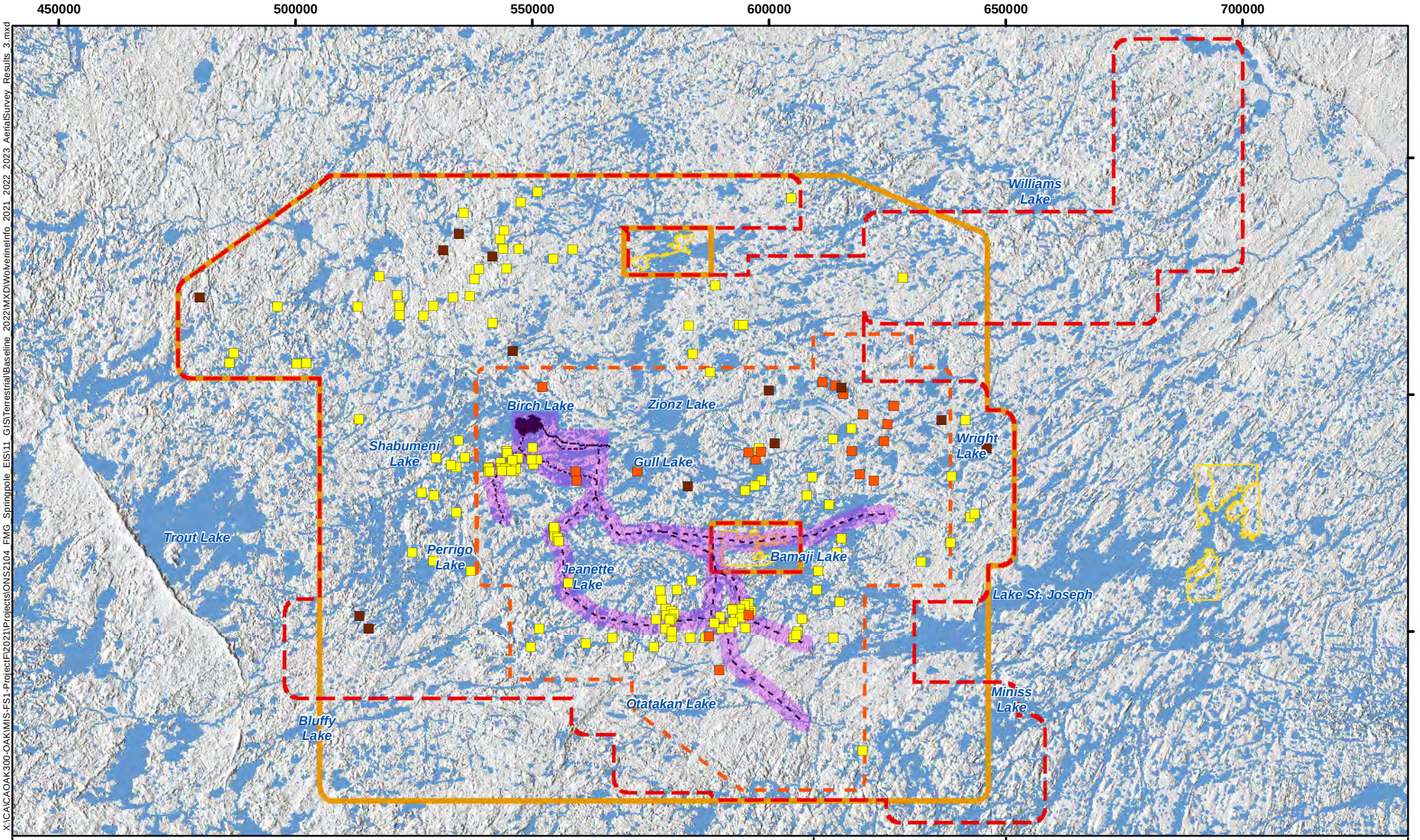
SPRINGPOLE GOLD PROJECT

Moose Aquatic Feeding Area Survey Locations

PROJECT No: ONS2104	**FIGURE: 2-13**
SCALE: 1:450,000	DATE: October 2024



LEGEND

- Aerial Survey Study Area (2021)
- Aerial Survey Study Area (2022)
- Aerial Survey Study Area (2023)
- Proposed Mine Site, Access Road alternatives and Transmission Line alternatives
- First Nation Reserve
- Wolverine Intensive Search Area (2022 aerial survey)
- 2021 Survey Wolverine Results (tracks/evidence)
- 2022 Survey Wolverine Results (tracks/evidence)
- 2023 Survey Wolverine Results (tracks/evidence)

NOTES:

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SPRINGPOLE GOLD PROJECT

Wolverine Aerial Survey Results Summary (Winter 2021, 2022 and 2023)

Datum: NAD83
Projection: UTM Zone 15N

N
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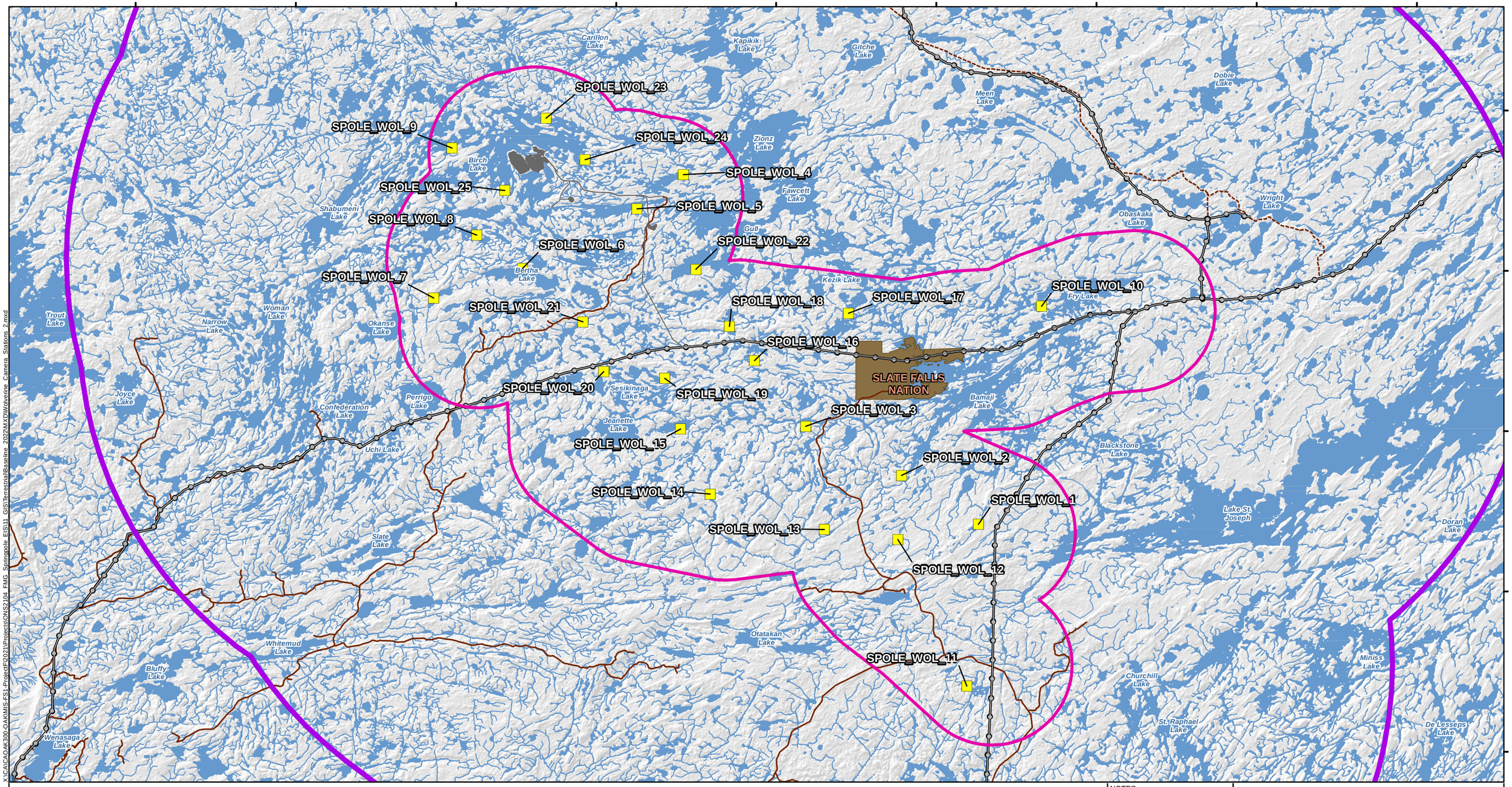
0 12.5 25 50 75 100 125 150 Kilometres

PROJECT N^{o}: ONS2104

FIGURE: 2-14

SCALE: 1:1,125,000

DATE: October 2024



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LEGEND

- Proposed Mine Feature
- Wolverine Local Study Area
- Wolverine Regional Study Area
- Camera Station Location (Labelled with ID)
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

0 10 20 40 60 80 100 Kilometres

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

Datum: NAD83
Projection: UTM Zone 15N

N W E S

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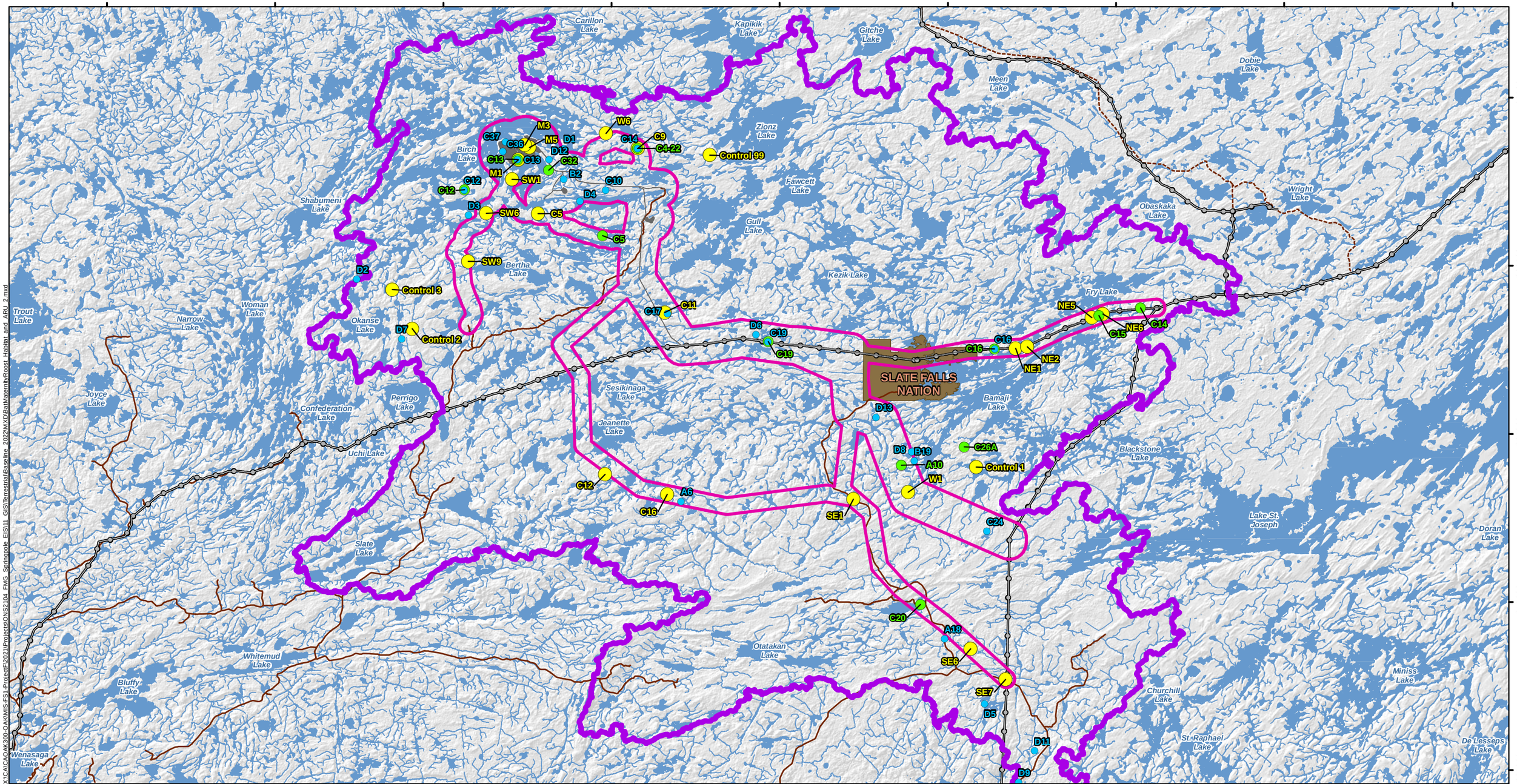
SPRINGPOLE GOLD PROJECT

Wolverine Camera and Hair Trap Station Locations

PROJECT N°: ONS2104 | **FIGURE: 2-15**

SCALE: 1:450,000 | DATE: October 2024



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LEGEND

- Proposed Mine Feature
- Species at Risk Bat Local Study Area
- Species at Risk Bat Regional Study Area
- Bat Maternity Habitat Survey Locations (2023 ARU) (Labelled with ID)
- Bat Maternity Habitat Survey Locations (2022 ARU) (Labelled with ID)
- Bat Maternity Habitat Survey Locations (2021 ARU) (Labelled with ID)
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

NOTES:
- Topographic information extracted
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

0 10 20 40 60 80 100 Kilometres

Datum: NAD83
Projection: UTM Zone 15N

N W E S

First Mining Gold

WSP

SPRINGPOLE GOLD PROJECT

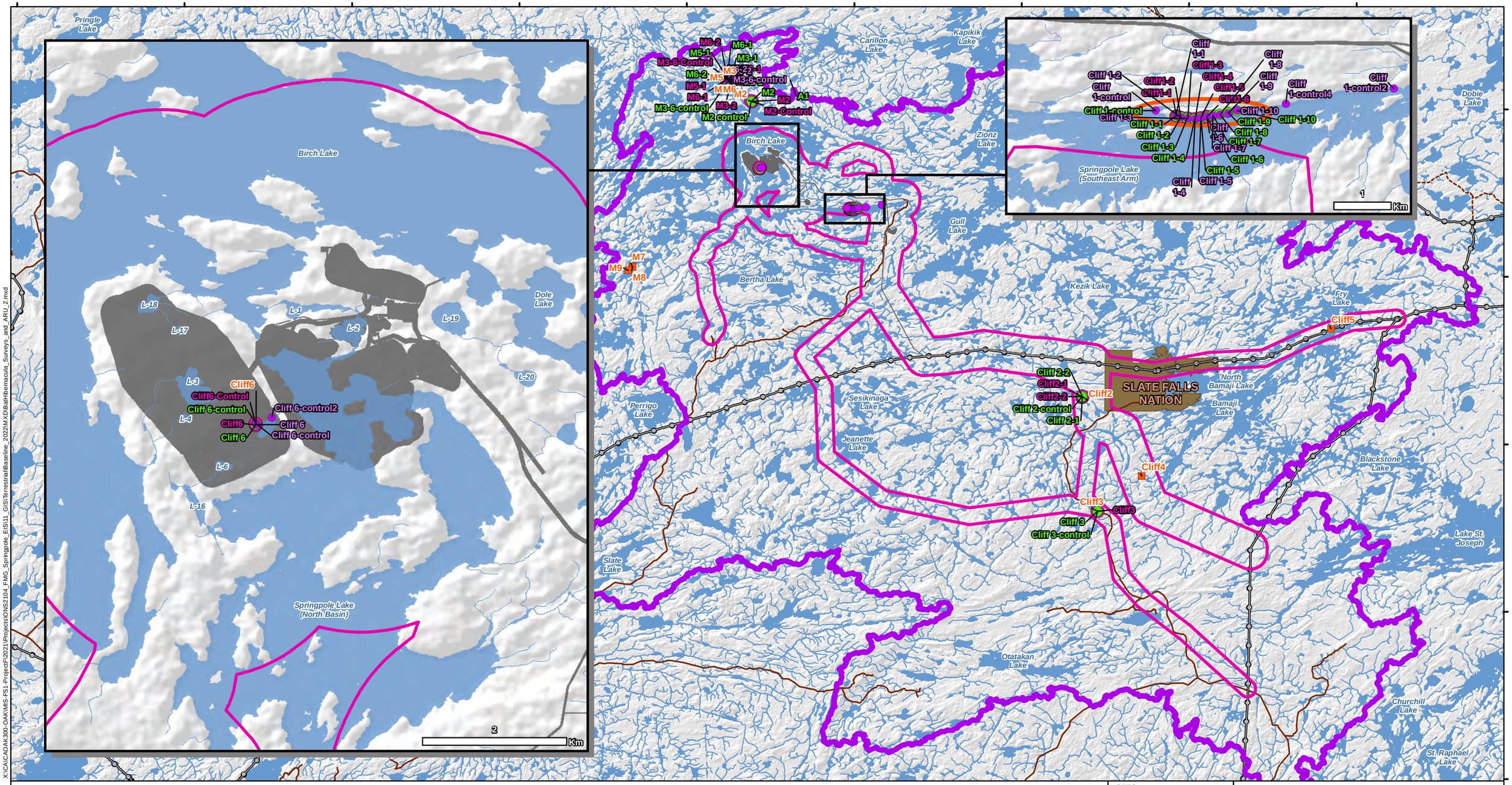
Bat Maternity Roost Habitat and ARU Stations

PROJECT N^{O}: ONS2104

FIGURE: 2-16

SCALE: 1:430,000

DATE: October 2024



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LEGEND

- Proposed Mine Feature
- Species at Risk Bat Local Study Area
- Species at Risk Bat Regional Study Area
- Bat Hibernacula Detector Survey Locations (2023) (labelled with ID)
- Bat Hibernacula Detector Survey Locations (2022) (labelled with ID)
- Bat Hibernacula Detector Survey Locations (2021) (Labelled with ID)
- Bat Hibernacula Survey Locations (Fall 2021) (Labelled with ID)
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

0 10 20 40 60 80 100 Kilometres

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.
- Bat detector survey locations (2011-2019) conducted by NorthWinds Environmental Services.

Datum: NAD83
Projection: UTM Zone 15N

FIRST MINING GOLD

wsp

SPRINGPOLE GOLD PROJECT

Bat Hibernacula Surveys and ARU Stations

PROJECT N°: ONS2104 | **FIGURE: 2-17**

SCALE: 1:430,000 | DATE: October 2024



Photo 1: Wolverine Non-Invasive Camera and Hair Snag Station Set-Up (run pole and opposing white flash camera visible)



Photo 2: Wolverine Non-Invasive Camera and Hair Snag Station Set-Up (run pole close-up with hair snare)

3.0 RESULTS AND BASELINE CONDITIONS

In general, the baseline investigations area is rather flat and uniform; cliffs and very rugged topography are rare in the baseline investigations area, and areas of exposed rock tend to be very small and local. Much of the area is covered by open lakes, many of which are relatively shallow and have abundant floating and submerged vegetation at the margins. Vast areas of wetlands primarily consist of bogs and swamps dominated by Black Spruce. Upland areas are mostly conifer forests dominated by Black Spruce and Jack Pine, with smaller areas of mixed and deciduous forest of White Birch and Trembling Aspen. Some portions of the baseline investigations area have extensive areas of young trees and shrubs regenerating in logged or burned areas. In general, watercourses tend to be short, slow-moving, and meandering connections between lakes; rapids are very rare, and most watercourses have broad wetlands adjacent.

Most of the northern sections of the baseline investigations area show little evidence of human disturbance. Road networks associated with logging and with the community of Slate Falls are present in the southwestern and southeastern parts of the baseline investigations area, and two transmission line corridors run east–west across the baseline investigations area. Isolated fishing and hunting lodges are scattered throughout larger lakes.

A review of background information, ground-truthing, and surveys were completed to provide site-specific context for extant biophysical conditions within the applicable LSAs and RSAs, focusing on the presence of terrestrial features. The following sections summarize the key biological environment features identified through the desktop studies and field surveys.

3.1 Vegetation Communities and Wetlands

Terrestrial ecosites comprised approximately 80% of the baseline investigations area, and B049 is the most common ecosite. Wetland ecosites comprised approximately 20% of the baseline investigations area. The RSA is composed of 61 Boreal ecosites and 3 unclassifed ecosites (U997, U998, U999). Based on the FRI provided in September 2023, ecosite classification was updated. Primary ecosite codes are used when evaluating ecosites (i.e., vegetation qualifiers are not considered) as only primary codes are considered in SWH and habitat as a whole is assessed in regard to SAR. Further, fieldwork aimed to describe vegetation communities that occur and refrained from delineation as fieldwork was completed prior to receiving September 2023 updated FRI. The few exceptions to this were limited to sampling locations where the soil and dominant vegetation were found to be incompatible with their assigned FRI designation, and not the result of a small inclusion of another habitat type. Where appropriate, these locations were either considered large and distinct enough from their original polygon to be clipped and assigned their own independent polygon or were entirely reassigned if the polygon was too homogeneous to clip into distinct new polygons.

The field data collected generally show a medley of communities. Across the RSA, there are instances where FRI may be refined to capture small or narrow communities (e.g., watercourses in the baseline investigations area typically have a band of meadow marsh or shore fen adjacent to them, then a band of thicket swamp, then a band of coniferous swamp, until finally reaching an upland community). However, the communities are still represented in the data and are presented within a higher "order" to discuss their distinctive characteristics. As an example, wetland communities may be classified together or a boundary may be marginally incorrect. The separation of some ecological features, such as fen and bog, can rely on the presence of as little as one or two indicator graminoid, herbaceous plant, moss or lichen species. These indicator species cannot be determined in aerial mapping or without extensive ground work, and therefore, a few simple assumptions and concessions have been made when accepting FRI mapping. Current vegetation mapping is provided in Figure 3–1a-n.

3.1.1 Mine Site Vegetation Community Assessment

Vegetation communities inform habitat, and therefore, a targetted look at the vegetation mapping for the mine site was undertaken (Figure , Table).

3.1.2 Wetland Communities

The wetland communities surveyed include swamps, marshes, and bogs and fens, as summarized in Table . Each type is discussed in further detail in Sections 3.1.2.1 to 3.1.2.5. Wetlands exist in different site types, including palustrine (inland with no flow or intermittent inflow and either permanent or intermittent outflow), lacustrine (associated with a lake), and isolated (e.g., fens and bogs). During the 2012 wetland evaluations (DST 2013b), 75.1% of the wetlands were lacustrine sites, 23.4% were palustrine, and 2.2% were isolated. Desktop delineation of wetlands in the updated RSA was conducted using 2023 MNRF FRI and the Ontario GeoHub, Land Information Ontario, and Ontario Hydro Network files base layers. These base layers represent the most up-to-date ecological spatial data available for the area. Based on the 2023 data, 47.3% of the wetlands were lacustrine sites, 36.1% were palustrine, and 16.7% were isolated. Lacustrine sites are often associated with marshes. Marshes in the boreal forest are often found as a transition between open water and shorelines and contain dominant species such as robust emergent and submerged plant species. Wetlands within the RSA were screened for significance (discussed in Section 4.2.1).

The wetland communities from the updated FRI data in the LSA and RSA include all four types: marsh, swamp, fen, and bog. Boreal ecosites found are summarized in Table .

3.1.2.1 Conifer Swamps

The following conifer swamp ecosites were identified during field investigations:

- B127 – Organic Poor Conifer Swamp;
- B128 – Organic Intermediate Conifer Swamp; and
- B129 – Organic Rich Conifer Swamp.

Swamps are non-peat-accumulating wetlands with extensive tree or shrub cover. Coniferous swamps cover vast, low-lying portions of the baseline investigations area. Coniferous swamps are variable, and may have a closed or open canopy, dense to sparse shrub layers, and a ground layer that may be dominated by Sphagnum moss or a dense and diverse ground layer of sedges, grasses and other herbaceous plants.

Tree species include Black Spruce (typically abundant), Tamarack, and Balsam Fir. Richer swamps are distinguished by species composition, typically have more abundant Tamarack, and may contain Eastern White Cedar, White Birch, and, at one site, Black Ash. A very diverse array of shrubs is found in swamps, particularly Labrador Tea, Speckled Alder, willows, and in richer sites, Mountain Maple, Red Osier Dogwood, Alder-leaved Buckthorn, and others. Typical species of the ground layer include horsetails, sedges, Canada Bluejoint, Creeping Snowberry, Dwarf Raspberry, Naked Mitrewort, and many others.

Additional coniferous swamp ecosites identified were provided in the updated FRI and are listed below. These communities were not encountered in the field. The communities below make up a small percentage of the coniferous swamp communities documented in the RSA, and are outliers in the FRI data likely delineated based on an interpretation of the substrate present.

- B222 – Mineral Poor Conifer Swamp;
- B223 – Mineral Intermediate Conifer Swamp; and
- B224 – Mineral Rich Conifer Swamp.

3.1.2.2 Thicket Swamps

The following thicket swamp ecosite were identified during field investigations:

- B135 – Organic Thicket Swamp.

Thicket swamps are swamps dominated by shrubs. Thicket swamps are common throughout the baseline investigations areabut are always small or narrow, typically being found along small watercourses. Thicket swamps in the RSA are nearly always dominated by Speckled Alder, but other shrubs may be mixed in including willows, Sweetgale, Red Osier Dogwood, Alder-leaved Buckthorn and others. Small amounts of Black Spruce and Tamarack may be present in the canopy above the shrubs. The ground layer is typically sparse but may be dominated by moss, sedges, Canada Bluejoint, or other species. Thicket swamps are generally adjacent to and not clearly separated from meadow marshes and conifer swamps.

3.1.2.3 Marshes

The following marsh ecosites were identified during field investigations:

- B142 – Mineral Meadow Marsh;
- B148 – Mineral Shallow Marsh;
- B150 – Open Water Marsh: Floating-leaved; and
- B152 – Open Water Marsh: Organic.

Marshes are wetland communities that are dominated by herbaceous plants (ferns, grasses, sedges, rushes and/or forbs). Marshes are common throughout the baseline investigations area but are generally rather small or narrow, occurring along watercourses and beaver ponds, in drained beaver ponds, and on sheltered lakeshores.

Meadow marshes are marsh communities where water levels drop below the substrate surface for part of the year. Meadow marshes are very common throughout the baseline investigations area, especially along watercourses and in drained beaver-ponds. Most commonly, the dominant species in meadow marshes in the RSA is Canada Bluejoint, but other species that are commonly present or occasionally dominant include Black girdled Bulrush, Canada Mannagrass, Lake Sedge, Lenticular Sedge, Marsh Cinquefoil, Northern Beaked Sedge, Water Sedge and Woolly-fruit Sedge. Common shrubs include Bog Birch, Leatherleaf, Speckled Alder, Sweetgale and several species of willow. Black Spruce and Tamarack may be present in small numbers. Meadow marsh often grades into thicket swamps and several forms of fen, and the distinctions between these communities are often unclear. As soil assessments were not completed, the distinction between organic and mineral meadow marshes could not be determined, and both substrates are likely to be common in the baseline investigations area.

Permanently flooded marshes with emergent vegetation are typically only found in very narrow strips adjacent to other wetlands within the baseline investigations area, but larger areas are occasionally present in sheltered bays of large lakes. The two communities of this type surveyed are diverse and variable, with Broadleaf Cattail, Lake Sedge, Northern Beaked Sedge, Reed Canary Grass, Water Horsetail and Water Sedge being among the dominant species.

Shallow water marshes are areas of shallow water with submerged or floating plants. These habitats are common in ponds and lakes throughout the baseline investigations area. Shallow water areas could not be surveyed in any detail by field staff on foot but appear to have a typical mix of aquatic plants such as water lilies, pondweeds, and bur-reeds.

Some rocky or sandy lakeshores have a distinct community of plant species not typically found elsewhere. These communities are not typically mapped, and are not documented in the updated FRI (B148, B150, B152) as they are only a few metres wide but were separately surveyed during field investigations when encountered. These lakeshores are dominated by a wide variety of sedges and rushes.

B144 – Organic Meadow Marsh was provided in the updated FRI; however, it was not noted during fieldwork. The difference between B142 (found during fieldwork) and B144 is the substrate. Mineral substrate is less wet and is "textured" (i.e., contains sand, loam, silt, clay) while organic substrate is peat and is wet and saturated. Without soil sampling, the determination between the two is difficult and is influenced by factors such as seasonal drawdowns and flooding. Organic swamps may have standing dead trees, whereas mineral swamps may have stunted but alive trees. B144 is rare in the updated FRI and makes up less than 0.2% of the marsh communities documented in the RSA.

3.1.2.4 Bogs and Fens

The following bog and fen communities were identified during field investigations:

- B126 – Low Treed Bog;
- B136 – Sparse Treed Fen;
- B137 – Sparse Treed Bog;
- B138 – Open Bog;
- B139 – Poor Fen;
- B140 – Open Moderately Rich Fen;
- B141 – Open Extremely Rich Fen;
- B146 – Open Shore Fen; and
- B147 – Shrub Shore Fen.

Bogs and fens are wetlands that accumulate peat (poorly decomposed organic matter). Fens receive nutrients from groundwater, while bogs are isolated from groundwater and only receive nutrients from rainwater. As a result, bogs have a very low diversity of plants that can tolerate the low nutrient levels. Bogs and fens are common throughout the RSA, including small areas around lakes, ponds, and watercourses, and small to very large areas in other low-lying areas. Bogs and fens in the RSA typically have abundant Sphagnum moss, and otherwise may have abundant sedges, low shrubs, and/or stunted coniferous trees.

Treed bogs and fens are often poorly distinguished from coniferous swamps and transition into them. They have stunted Black Spruce, Tamarack, rarely Jack Pine, a dense layer of low shrubs (primarily Leatherleaf, Bog Laurel, and Labrador Tea), and a ground layer dominated by moss. Other typical species include Small Cranberry, Cloudberry, Three-leaved Solomon's Seal, and sedges.

Open bogs and fens are dominated by moss and sedges, with scattered shrubs and small trees. Bogs and poor fens have a low species diversity. Typical species in this habitat include Tamarack, Black Spruce, Leatherleaf, Bog Laurel, Bog Rosemary, Small Cranberry, sedges, cottongrasses and beakrushes. Richer fens are distinguished by species composition and include species such as Bog Buckbean, Marsh Scheuchzeria, and Tufted Bulrush. A ring of treed bog or fen typically surrounds open bogs and fens.

Shore fens occur as floating mats on the shores of lakes, ponds, and slow-moving watercourses. Most are dominated by shrubs, particularly Leatherleaf, with smaller amounts of Speckled Alder, Bog Birch and Sweetgale and a dense ground layer of Sphagnum moss. Open communities dominated by Few-seeded

Sedge and Wooly-fruit Sedge were also encountered. Small, stunted Black Spruce, Tamarack and Jack Pine may be present. Other typical species present include Small Cranberry, Three-leaved Solomon's Seal, and along water edges, Blueflag Iris, Wild Calla, and Marsh Cinquefoil.

All communities documented by FRI were confirmed during fieldwork. Community B147 was not documented in the updated FRI; this community was documented during fieldwork.

3.1.2.5 Deciduous Swamp

Two deciduous swamp communities were provided in the updated FRI:

- B130 – Intolerant Hardwood Swamp; and
- B133 – Hardwood Swamp.

Intolerant Hardwood Swamps are defined by a canopy consisting of poplar and/or ash with over 50% cover of the hardwood species. In the Trout Lake FRI, three of the five B130 polygons have 50% Trembling Aspen listed in the Overstorey Species Composition metadata, the other two polygons have 70% Black Spruce listed and are new plantings (as of 2015). In the Cat Lake FRI, one B130 polygon occurs with a stated 100% composition of Trembling Aspen.

The LacSeaul FRI has one B133 polygon and the Trout Lake FRI has two B133 polygons which have 60% Paper Birch composition. The Trout Lake FRI has two additional B133 polygons; however, they are listed at at 40% Paper Birch, 40% Black Spruce, and 10% Balsam Poplar composition.

3.1.3 Terrestrial Communities

The terrestrial communities which occur often vary slightly by moisture or soil type. Like wetland communities, coniferous types are dominant (summarized in Table). The terrestrial communities are grouped into sparse treed, deciduous treed, mixed treed, coniferous treed, and bedrock, and each type is discussed in further detail in Sections 3.1.3.1 to 3.1.3.4.

3.1.3.1 Sparse Treed

The following sparse treed ecosites were identified during field investigations:

- B012 – Very Shallow, Dry to Fresh – Pine-Black Spruce Conifer; and
- B034 – Dry Sandy, Jack Pine-Black Spruce Dominated.

These habitats are relatively rare in the RSA, occurring where shallow soil limits tree growth. These habitats typically have extremely low plant diversity, with Black Spruce and/or Jack Pine in the canopy, blueberries in the lower levels, and little herbaceous plant growth. Moss and lichen are typically abundant.

Additional sparse treed ecosites identified were provided in the updated FRI and are listed below. These communities make up 6.2% of the total sparse treed communities in the RSA and were not documented in the field.

- B011 – Very shallow, dry to fresh – Red Pine-White Pine Conifer;
- B024 – Very Shallow, Moist: Pine – Black Spruce Conifer;
- B035 – Dry, Sandy: Pine – Black Spruce Conifer;
- B037 – Dry, Sandy: Spruce – Fir Conifer; and
- B040 – Dry, Sandy: Aspen – Birch Hardwood.

3.1.3.2 Deciduous and Mixed Treed

The following mixed and deciduous ecosites were identified during field investigations:

- B055 – Dry to Fresh, Coarse – Aspen-Birch Hardwood; and
- B104 – Fresh, Silty to Fine Loamy – Aspen-Birch Hardwood.

For a site to be "mixed," deciduous and coniferous trees must be in equal portions at 50% coverage. However, most mixed forests in the RSA with a significant portion of deciduous trees will be classified as Deciduous Forest under the Boreal ELC. Therefore, these two groups are discussed together as distinctions made via aerial delineation in the latest FRI were not field confirmed.

Forests with a significant component of deciduous trees are uncommon in the RSA relative to coniferous forests. They are often present on the upper parts of slopes and on tops of ridges. Deciduous and mixed forests may be of widely varying height depending on age, and typically have a relatively open canopy with abundant shrubs.

Typical tree species in these forests include Trembling Aspen, White Birch, Black Spruce, White Spruce, Jack Pine and Balsam Fir. Typical canopy compositions include forests with Trembling Aspen and little else, forests of White Birch mixed with Black Spruce or Jack Pine, or forests with a diverse mix of all the species listed above.

The shrub layer is often dense. Typical species include blueberries, Bush Honeysuckle, Green Alder, Labrador Tea and Mountain Maple.

The ground layer in deciduous and mixed forests is typically dense and diverse. Moss is abundant, and typical plant species include Bluebead Lily, Bunchberry, Canada Mayflower, clubmosses, Mountain Cranberry, Twinflower and Wild Sarsaparilla.

The following additional deciduous/mixed treed ecosites were identified in the updated FRI:

- B054 – Dry to Fresh, Coarse: Red Pine – White Pine Mixedwood;
- B070 – Moist, Coarse: Aspen – Birch Hardwood;
- B088 – Fresh, Clayey: Aspen – Birch Hardwood; and
- B119 – Moist, Fine: Aspen – Birch Hardwood.

3.1.3.3 Coniferous Treed

The following coniferous forest ecosites were identified during field investigations:

- B049 – Dry to Fresh, Coarse – Jack Pine-Black Spruce Dominated;
- B050 – Dry to Fresh, Coarse – Pine-Black Spruce Conifer;
- B052 – Dry to Fresh, Coarse – Spruce-Fir Conifer;
- B065 – Moist, Coarse – Pine-Black Spruce Conifer;
- B067 – Moist, Coarse – Spruce-Fir Conifer; and
- B098 – Fresh, Silty to Fine Loamy – Black Spruce-Jack Pine.

The predominant vegetation community in the RSA is coniferous forest. Coniferous forests may be of widely varying height depending on age, and may have an open canopy, or a closed canopy with very little vegetation underneath.

Most areas are heavily dominated by Black Spruce and Jack Pine, with the spruce being more common in moister and more mature forests, while Jack Pine is more common in drier, rockier settings and in areas regenerating from fires and logging. Small amounts of White Spruce, White Birch and Trembling Aspen may be mixed into coniferous forests. Balsam Fir may be common in the sub-canopy and understory of coniferous forests but is rarely present in the canopy.

Low shrubs, including Labrador Tea and blueberries, are often abundant, but taller shrubs such as Green Alder are less common. Small Black Spruce and Balsam Fir are often abundant in coniferous forests.

Ground layers of coniferous forest may have little plant growth besides moss or contain a diverse array of other plants. Typical species include Bunchberry, clubmosses, Creeping Snowberry, Mountain Cranberry, Wild Sarsaparilla and Twinflower.

Additional coniferous treed ecosites identified were provided in the updated FRI and are listed below. These communities were not encountered in the field. The communities below make up less than 1% of the coniferous treed communities in the RSA, and are outliers in the FRI data likely delineated based on an interpetration of the substrate present.

- B048 – Dry to Fresh, Coarse: Red Pine – White Pine Conifer;
- B053 – Dry to Fresh, Coarse: Conifer;
- B064 – Moist, Coarse: Red Pine – White Pine Conifer;
- B068 – Moist, Coarse: Conifer;
- B082 – Fresh, Clayey: Jack Pine – Black Spruce Dominated;
- B083 – Fresh, Clayey: Pine – Black Spruce Conifer;
- B085 – Fresh, Clayey: Spruce – Fir Conifer;
- B099 – Fresh, Silty to Fine Loamy: Pine – Black Spruce Conifer;
- B101 – Fresh, Silty to Fine Loamy: Spruce – Fir Conifer;
- B114 – Moist, Fine: Pine – Black Spruce Conifer; and
- B116 – Moist, Fine: Spruce – Fir Conifer.

3.1.3.4 Bedrock

The following rock barren ecosite was identified during field investigations:

- B164 – Rock Barren.

Exposed bedrock is relatively rare in the RSA and tends to cover very small areas. Few examples of this habitat were discovered during field investigations. Plant species diversity in these habitats is relatively low. Typical species growing where soil has accumulated include Jack Pine, Paper Birch, Black Spruce and blueberries. Lichens and mosses are abundant.

Additional bedrock or cliff ecosites were provided in the updated FRI and are listed below. Cliff sites were inventoried specific to bat habitat (Section 2.7.3). These communities were not encountered in the field. The communities below make up approximately 4% of the bedrock communities delineated in the RSA.

- B158 – Cliff;
- B161 – Bedrock Shoreline;

- B162 – Open Bedrock Shoreline; and
- B165 – Open Rock Barren.

3.1.4 Anthropogenic and Disturbance

These areas are not separately classified into ecosites during fieldwork. However, the updated FRI does include some boreal codes which are considered disturbance (Table). All sites presented here have been heavily disturbed by fire or human activity (logged/clearcut areas, roadsides, infrastructure corridors, and around human settlements). While common in origin (anthropogenic disturbance), these communities tend to be highly variable, with multiple and diverse vegetation communities covering small areas, depending on the topography and the nature and history of the disturbance. If disturbance is not ongoing, shrubs and trees regrow, particularly Black Spruce, blueberries, Jack Pine, Labrador Tea, Speckled Alder, Trembling Aspen, and White Birch. Herbaceous vegetation is generally rare in communities with abundant shrubs and trees but may be the dominant plant form in open communities. A very wide array of herbaceous plants may be found in such areas, often dominated by grasses. Unlike other communities, these habitats often contain a variety of non-native plants.

Where logging has occurred, regenerating trees and shrubs are dominated by White and Black Spruce, Balsam Fir, Jack Pine, White Birch, Trembling Aspen, Pin Cherry, and Green and Speckled Alder. Low shrubs include blueberries and Wild Red Raspberry, and herbaceous plant growth is typically sparse.

Anthropogenic communities have been grouped as Sand/Gravel/Mine Tailings, Commercial/Industrial Unclassified, Utilities Unclassified, and Residential Unclassified. The first category, Sand/Gravel/Mine Tailings, is where Boreal ecosites that are anthropogenic have been grouped. Two ecosites, B006 and B007, are not inherently anthropogenic; however, during field investigations they were found to be non-natural in origin. B006 (Active Eolian Sand) occurs in the Lac Seul FRI on the edge of the RSA. This ecosite occurs in forestry areas and is considered "Unclassified" meaning "Non-forested areas which were created for specific uses other than timber production, such as roads, railroads, logging camps, mines, utility corridors, logging camps, gravel pits, airports, etc". Most of these areas have been cleared of trees and the "sand" community remaining is not a naturally occuring eolian sand community. Similarily, B007 (Active Mineral Barren) occurs in the Cat Lake FRI, with one polygon occuring approximately 10 km north of the existing camp at the MacIntyre Mine. Bat detectors M3-1 and M3-2 were placed here and it was determined that this site is an old disturbance and not dune habitat. Lastly, in the sand / gravel / mine tailings group, a few ecosites occur that are specifically considered anthropogenic ecosites in the Boreal ELC Manual:

B189 – Constructed Vertical Surface;

B191 – Active Waste Disposal/Landfill;

B193 – Active Coarse Clean Fill;

B197 – Pavement/Concrete; and

B198 – Compact Gravelled Surface.

3.1.5 Flora

A total of 397 species of vascular plants were identified within the RSA during field investigations across 2021 and 2022; a full list is provided in Attachment 2. Of the species present, almost all are native to Ontario, with only 29 non-native species documented. One SAR was documented: Black Ash was found in the southern extent of the RSA. Five species of plants (including Black Ash) are classified as rare in Ontario (ranked S1, S2, or S3).

DST (2012) documented 50 plant species in 2011 and, in 2012, identified 89 plant species in field plots and 162 species from wetlands (DST 2013b). No rare or non-native plant species were identified during the field assessments by DST. NWES (2020) documented 191 plant species. NWES documented several provincially rare plant species: Black Ash, Lakecress, Small Yellow Pond Lily, and Northern Marsh Violet. No specific information on observations of these species is available.

Black Ash is a tree species that was once widespread throughout Ontario. Black Ash is rapidly declining due to the invasive Emerald Ash Borer beetle. Black Ash was observed at two locations in the southeastern portion of the RSA. Black Ash appears to be at the northern edge of its range within the baseline investigations area, but it is common in Sioux Lookout. Black Ash was designated as Threatened in Ontario by COSEWIC in 2018. On January 27, 2021, COSSARO submitted its report assessing Black Ash as Endangered in Ontario. The ESA requires the Species at Risk in Ontario List (O. Reg. 230/08) to be amended to reflect the COSSARO classification within one year of receiving the report.

Black Ash was listed as Endangered under the ESA on January 27, 2022. However, protection provisions were suspended under a Minister's Order (Environmental Registry of Ontario number 019-4278) for two years after listing. Black Ash received protection under Section 9 or 10 of the ESA as of January 22, 2024. However, a new *Ontario Regulation 6/24: Limitations on Section 9 Prohibitions* under the ESA provides conditional exemption for Black Ash in that only trees which meet certain requirements in southern municipalities will be protected under the ESA. Given that the baseline investigations area does not fall within any of the municipality or territorial districts referred to by the regulation, Black Ash in the baseline investigations area does not receive protection under the ESA.

Northern Marsh Violet (S2S3) grows in wetlands, including fens and marshes. It is known from only about 12 sites in Ontario but is likely more widespread. The species was observed at two widely separated locations in the baseline investigations area during the first round of breeding bird surveys, during the flowering window. It is likely to occur elsewhere, as it is small, easily overlooked, and only readily identifiable in flower in early spring.

Floating Marsh Marigold (S2) is a small plant found growing in sheltered shallow water in northwestern Ontario. The species was observed at one site, in a partially drained beaver pond within the footprint of the mine site in the PDA.

Alpine Woodsia (S2) is a small fern that grows on moist, shaded cliff faces, and in Ontario is known mostly from the Lake Superior watershed. It was observed at one location within the mine site of the PDA.

Nahanni Oak Fern (S3) is a small fern that grows on small cliffs and is known in Ontario primarily in the vicinity of Lake Superior. It was observed on small, shaded cliffs at two widely separated locations within the baseline investigations area, in close vicinity to preferred transmission line route.

One species of moss classified as rare (S2) in Ontario was noted: Red Dung Moss. This unique species grows only on the dung of ungulates in wet mossy habitats and was noted at three locations.

3.2 Birds

The RSA falls within Bird Conservation Region 8, the Boreal Softwood Shield. The Boreal Softwood Shield is described as a broad region that is more than 80% forested by closed stands of conifers, largely White Spruce and Black Spruce, Balsam Fir, and Tamarack. The region is a broadly rolling mosaic of uplands and associated wetlands, dotted with numerous small to medium-sized lakes (Environment Canada 2014).

Species recorded across all survey types are representative of the avifauna and habitats found in the baseline investigations area. Overall, including all survey types and incidentals, guild representation generally reflected what was seen in the breeding bird surveys; forest species were the most common, followed by

wetland / open water and edge / successional species. There is no true grassland in the study area, so it follows there would be few grassland birds. The following presents findings from breeding bird, crepuscular bird, owl, stick nest and migratory bird surveys, and migratory, marsh and SAR bird results from ARUs.

Under the ESA, specific individual and habitat protections are in place for Threatened and Endangered species. Two Threatened species, the Eastern Whip-poor-will and Lesser Yellowlegs, have been observed in the baseline investigations area. Additionally, six species of Special Concern, including the Bald Eagle, Barn Swallow, Canada Warbler, Common Nighthawk, Olive-sided Flycatcher, and Rusty Blackbird, have also been observed in the vicinity.

3.2.1 Breeding Bird Surveys

In 2021 and 2022, breeding bird surveys were conducted to characterize the nature, extent, and importance of avian usage within the RSA for wildlife and SAR birds. In 2021, a total of 95 bird species were recorded during breeding bird survey point counts from the 228 point count stations. In 2022, a total of 85 bird species (and 2 unknown species) were recorded during breeding bird survey point counts from the 141 point count stations. Based on the combined 2021 and 2022 results, 103 species have been recorded to date during breeding bird surveys.

- In 2021, the most abundant and frequently observed species in the RSA were representative of the avifauna and habitats found in the RSA (boreal coniferous forest and wetland): Ruby-crowned Kinglet, Nashville Warbler, White-throated Sparrow, Dark-eyed Junco, and Yellow-rumped Warbler. Ruby-crowned Kinglet and Nashville warbler were particularly ubiquitous, each being found at 86% of all point count stations.
- Similarly, in 2022, the most abundant and frequently observed species in the RSA are representative of the avifauna and habitats found in the RSA (boreal coniferous forest and wetland): Ruby-crowned Kinglet, Nashville Warbler, White-throated Sparrow, Dark-eyed Junco, and Golden-crowned Kinglet instead of Yellow-rumped Warbler. Yellow-rumped Warbler was seventh after Magnolia Warbler. Again, similarly, Ruby-crowned Kinglet was particularly ubiquitous, being found at 87% of all point count stations. Nashville Warbler was documented at 70% of all point count stations.

3.2.1.1 Density from Human Point Count Data

Density could be modelled for 45 species detected during breeding bird point count surveys. Of these, 18 had questionable model fits. Despite this, final density models for most species showed relatively good generalizability and stability in their predictive performance, with most showing low variability in the RMSE and relatively high concordance between the expected RMSE and observed RMSE (Attachment 7). That most models show consistency in their responses when given new data also suggests they have relatively low bias. Models for six species performed relatively poorly: Orange-crowned Warbler, Brown Creeper, Bonaparte's Gull, Philadelphia Vireo, Cape May Warbler, and Black-backed Woodpecker.

Mean predicted density (birds per ha) at the average surveyed habitat condition for bird species for which density could be modelled is provided in Figure . Average density across the surveyed point count stations ranged from 0 to 1 birds per hectare. Four species had unreasonably large standard errors (more than 50 birds per hectare) so were excluded from the density plots. Most bird species (34 species) had average densities below 0.1 birds per hectare. The three bird species with the highest average densities were the White-throated sparrow, Nashville Warbler, and Ruby-crowned Kinglet, having average densities of 0.54, 0.74, and 0.99 birds per hectare, respectively.

Equal densities for each species were expected across the RSA if habitat is homogeneously distributed on the landscape. While most (31 out of 45, or 68.9%) had densities that tended to be higher within the

currently defined LSA boundary for birds, this difference was only significant for three species: Boreal Chickadee, Chipping Sparrow, and Sandhill Crane. Only one species, Greater Yellowlegs, had a significantly higher modelled density outside compared to within the LSA.

The covariate "Year" was included in the final density model of 22 species. For 19 of these, density was significantly lower in 2022 compared to 2021. While it is impossible to know the cause of this decrease, a possible explanation could be the high number of forest fires in 2021.

A subset of species were selected to serve as proxy species to help synthesize the results of the density modelling. The following species were selected as proxies:

- **Forest species:** Dark-eyed Junco, Ovenbird, and Red-eyed Vireo;
- **Wetland species:** Common Yellowthroat, Palm Warbler, and Northern Waterthrush;
- **Shorebirds:** Wilson's Snipe, Mallard, Greater Yellowlegs;
- **Nocturnal raptors**: Great-horned Owl, Boreal Owl;
- **Diurnal raptors:** Osprey, American Kestrel;
- **SAR:** Olive-sided Flycatcher, Common Nighthawk;
- **Culturally Important Species:** Bald Eagel and Grouse.

Of these proxy species, seven could be included in the density modelling. All forest proxy species were included in the density modelling, and the final models were generally representative of the species' habitat preferences. Dark-eyed Junco was significantly more abundant near wetlands and negatively associated with deciduous/mixed forests, which is consistent with the species' known preference for coniferous forest and edge/open habitat. Ovenbird was significantly more abundant in deciduous/mixed forests, which aligns perfectly with the species' known habitat preferences. Red-eyed Vireo showed a negative association with treed habitat. While this species is known to prefer deciduous forests, the negative association with treed habitats may be a reflection of the low abundance of deciduous habitat and relatively ubiquitous coniferous forest across the RSA. Wetland proxy species included in the density modelling were Common Yellowthroat and Palm Warbler. Consistent with their known habitat preferences, final models for both proxy species showed statistically significant negative associations with forested habitats. Of the shorebird proxy species, density was modelled for Greater Yellowlegs. As expected, abundance of this species was greatest in wetland and riparian habitats. Finally, density could be modelled for one SAR, Olive-sided Flycatcher. While this species habitat preferences range from old growth coniferous/mixed forests to young/intermediate-stage forests resulting from wildfire or timber harvesting, density models revealed a greater preference within the RSA for the latter habitat type. Density models could not be developed for the remaining proxy species.

3.2.1.2 Power Analysis by Simulation

Power analyses were conducted by simulation to detect a change in density from baseline within the LSA for a hypothetical new year for a range of changes in density, sample sizes, and habitat types. Although hypothetical Project-driven impacts to density were investigated for up to a 50% decrease in the LSA, a decrease of 25% can be considered large. Even for this conservative effect size, power did not reach 80% for any of the species included in the power analyses, irrespective of sample size or habitats sampled. In general, the power to detect a 25% decrease in density from baseline increased with each addition to the sampling effort. The gains in power from increasing the sample size were mainly observed at larger effect sizes (a decrease of up to approximately 25%). Despite this, the highest simulated sampling effort of 25

resampled routes and 25 new routes per treatment (total of 500 simulated points) was still insufficient to reach the desired 80% power level in any of the examined species (Attachment 7).

While increasing the sample size did not appreciably improve the analytical power, it improved accuracy of the density estimates for 9 of the 10 species examined. Confidence intervals of density estimates decreased with each additional increase in sample size for Nashville Warbler, White-throated Sparrow, Dark-eyed Junco, Ovenbird, Red-eyed Vireo, Common Yellowthroat, Palm Warbler, Greater Yellowlegs, and Olive-sided Flycatcher. Focusing sampling efforts in specific habitats improved confidence of density estimates for four species. Smaller confidence intervals were observed for 1) Ovenbird with lower sampling effort in coniferous forest; 2) Red-eyed Vireo with a lower sampling effort in wetlands; 3) Common Yellowthroat with a lower sampling effort in forested habitats; and 4) Greater Yellowlegs with a greater sampling effort in riparian habitat. The confidence benefits to density of focusing sampling effort in specific habitats was mainly observed at smaller sample sizes (Attachment 7).

3.2.2 Crepuscular Bird Surveys

Baseline surveys for EWPW for the Project have substantially expanded the baseline knowledge for EWPW in both distribution and abundance of this SAR in this region of Ontario. Prior to these baseline survey efforts, there were no confirmed records of EWPW in this region. The Project is in an area well north of the currently published range boundary for EWPW in the federal recovery strategy (MECP 2019). Previously, this species has largely been associated with mixed deciduous ecosystems associated with the Great Lakes in south and central Ontario (MECP 2019). Surveys for EWPW were previously conducted in multiple years between 2012 and 2019 around the proposed mine site footprint in accessible areas with the best available habitat for EPWP using ARUs. EWPW were not detected during those surveys.

Given the lack of detections prior to 2021 and the limited public data available to confirm the prevalence and distribution of this SAR in the boreal region of Ontario, in 2021, EWPW surveys were substantially expanded in both spatial extent and sampling effort to attempt to detect this species in areas with no road access in a wider variety of habitats including coniferous stands, wetlands, and the mixed and deciduous stands, burn and forestry disturbed edges that occur south of the proposed Project site. This preliminary approach was successful, as it resulted in the first detections of EWPW in the baseline investigations area. Unfortunately, surveys had to be ended early in 2021 due to the forest fire. However, the team was still able to successfully collect all deployed ARUs before evacuating the site. After this successful detection in 2021, survey efforts in 2022 were then expanded with more than double the ARU deployments across a suite of suitable habitat types as well as vegetation surveys and mapping of these habitats.

In 2022, dedicated ARU deployment targeted EWPW after recording this species on ARUs in 2021. Figure 3–7a and Figure 3–7b show the 2021 and 2022 results from EWPW ARU surveys. As noted in the figures, the double blue line represents the full moon, and the solid blue line represents the new moon. EWPW were recorded on nights with and without the full moon in both 2021 and 2022. In 2022, from May 7 to August 7 EWPW were largely detected from early June to the end of July. The best activity modell from ARU data for EWPW was that which contained the number of days to the full moon as a predictor variable. However, the effect of this variable was very small and not statistically significant (see Attachment 7 for full results). The 2022 ARUs did not detect much EWPW activity in May, which could be reflecting the more northern location of the Project. This is analogous to the provincial breeding bird protocols, which have slightly different target survey windows for northern vs southern regions of Ontario and results seen in Common Nighthawk at increasingly northern latitudes (Hannah et al. 2022). Current results suggest that the surveys conducted in June still sample within the window of core activity for this species in this northern area of their range.

3.2.2.1 Eastern Whip-poor-will Habitat Mapping

EWPW is a Threatened species in Ontario under the ESA and, consequently, receives species protection under Section 9 and general habitat protection under Section 10 of the ESA. In December 2022, COSEWIC downlisted this species to Special Concern. Currently, the ESA and SARA continue to list EWPW as Threatened.

EWPW was documented in 2021 and 2022. Currently, the primary threat to EWPW is habitat loss or degradation, and therefore impacts on EWPW should be measured as a function of change in relative area of category habitat (Figure 3-8a). Impacts for Threatened and Endangered species will be reviewed in the EIS/EA.

However, to inform habitat presence, an HSI model was used to map potential habitat in the study area (Figure 3-8b). The HSI model requires vegetation communities to be either stands aged 10 to 40 years with dense forest cover within 30 m of open areas (i.e., a clipped edge to a forest polygon) or stands aged 10 to 30 years with sparse to moderate forest cover (Attachment 3). Confirmatory field surveys occurred for a subsample of the potential habitat in 2022. Field surveys confirmed several areas that appeared to be potential habitats were burned or logged and no longer appropriate aged stands. However, forestry operations leave a vegetated buffer along watercourses, and depending on the size of the buffer remaining, it may be suitable habitat.

Additionally, category habitat was mapped at the location of the ARUs that recorded EWPW (Figure 3-8a). Last updated in July 2021, the General Habitat Description (GHD; MECP 2017) for EWPW provides greater clarity on the area of habitat protected for a species based on the general habitat definition found in the ESA. The GHD categorizes habitat under three categories:

- **Category 1:** Nest and the area within 20 m of the nest.
- **Category 2:** The area between 20 and 170 m from the nest or centre of approximated defended territory.
- **Category 3:** The area of suitable habitat between 170 and 500 m of the nest or centre of approximated defended territory.

EWPW nests and the area immediately around the nest (i.e., 20 m) are highly sensitive features supporting the species' reproduction life cycle and have the lowest tolerance to alteration. Whip-poor-wills do not construct a traditional nest as eggs are laid directly on leaf litter. Their nests require tree cover, shade, sparse ground cover, and proximity to open areas for foraging on flying insects. A 20 m distance from the nest is thought to maintain the microclimate and vegetation features around the nest. It is also important as EWPW exhibit nest site fidelity. However, nests are rarely identified due to their cryptic nature. The GHD also states that it is inadvisable to search for EWPW nests as this may inadvertently jeopardize the nesting site and offspring.

The area between 20 and 170 m of the nest or centre of approximated defended territory is included in Category 2 and is considered to have a moderate level of tolerance to alteration. Recent research in Ontario has shown that territories are approximately 9 ha in size. To establish 9 ha, it is approximately 170 m from the nest or centre of approximated defended territory. It is also important to note that within a territory, double brooding is common for this species, with a 32-day average interval between clutches. Different nest sites are generally used for the second brood but are usually within 80 m of the first site.

The area of suitable habitat between 170 and 500 m of the nest site or centre of approximated defended territory is included in Category 3. It is considered to have a high level of tolerance to alteration. Eastern Whip-poor-wills are thought to stay within 500 m of nest sites, and those which range greater than 500 m

from the nest are likely females that have abandoned the territory due to the loss of a mate. The area between 170 and 500 m from a nest site may incorporate larger forest tracts that support additional foraging opportunities.

3.2.3 Owl Surveys

Two owl species, Boreal Owl and the Northern Saw-whet Owl, were recorded during the 2012 nocturnal call-playback survey (DST 2013a). Further, a Barred Owl was heard opportunistically during the 2012 field season (DST 2013a) and a Barred Owl pair was observed during the 2018 breeding bird point-count surveys (NWES 2020).

3.2.4 Stick Nest Surveys

In 2021, survey efforts attempted to confirm the presence of the previously reported stick nests during aerial surveys, as well as document previously unknown nests. More than 20 raptor nests, including those for Bald Eagle and Osprey, were confirmed in the RSA in 2021.

3.2.5 Migratory Bird Surveys

DST (2013a) and NWES (2020) completed marsh bird surveys and waterfowl surveys around the PDA where logistics for surveying were possible. No target marsh bird species were encountered in any of the 2012, 2018, or 2019 marsh monitoring surveys. Waterfowl were observed at 18 survey locations in 2012, 11 locations in 2017, and 21 locations in 2019. The most abundant waterfowl species were Common Merganser, Mallard, Canada Goose, Common Goldeneye, and Hooded Merganser (NWES 2020).

WSP documented migratory birds in a variety of ways: in-person, via ARUs and during winter surveys (e.g., at existing camp and helicopter surveys). During the 2021 investigations, WSP documented the following marsh birds, shorebirds, and waterfowl (species groupings from the SWH Ecoregion 3W Schedule as the 3S schedule has not been published):

Marsh Birds

- Common Loon – abundant in the RSA and observed in all previous work (DST and NWES);
- Ring-necked Duck – observed in 2021 and by DST and NWES;
- Sandhill Crane – occasionally seen in large fens and cleared anthropogenic areas;
- Sedge wren – occasionally seen in grassy marshes and fens;
- Sora – one observation in a large grassy fen;
- Spotted Sandpiper – occasionally seen on lakeshores; and
- Trumpeter Swan – occasionally seen on shallow bays of large lakes, nesting confirmed at two locations.
- Yellow Rail – rarely encountered, in 2022 three ARU recordings from marsh and bog and fen ecosites.

Shorebirds

- Greater Yellowlegs – commonly observed wherever large open fens with open water are present;
- Killdeer – noted only at the existing camp where suitable shortgrass habitat is present;
- Solitary Sandpiper – rarely encountered in a variety of wetland habitats with shallow water;
- Spotted Sandpiper – occasionally seen on lakeshores; and

- Wilson's Snipe – rarely encountered at large grassy fens.

Waterfowl

- Blue-winged Teal – observed once at a marshy lakeshore;
- Bufflehead – occasionally observed on small shallow lakes, DST observed in 2012;
- Canada Goose – encountered only as spring and fall migrants, breeding evidence not observed. Observed in all previous work (DST and NWES);
- Common Goldeneye – commonly observed on small shallow lakes and observed in all previous work (DST and NWES);
- Common Loon – abundant in the RSA and observed in all previous work (DST and NWES);
- Common Merganser – occasionally observed in various habitats with open water and observed in all previous work (DST and NWES);
- Hooded Merganser – occasionally observed in various habitats with open water and observed in all previous work (DST and NWES);
- Mallard – commonly observed on small shallow lakes and observed in all previous work (DST and NWES);
- Ring-necked Duck – commonly observed on small shallow lakes and observed in all previous work (DST and NWES);
- Trumpeter Swan – occasionally seen on shallow bays of large lakes; nesting confirmed at two locations; NWES observed;
- Lesser Scaup – documented by DST (2013a); and
- American Black Duck, Green-winged Teal, Red-breasted Merganser and Snow Goose – documented by NWES.

Opportunistically, Great Gray Owls are often seen during aerial surveys and one Great Gray Owl was observed in marsh habitat along a small watercourse. Opportunistically, during the 2021 and 2022 investigations, WSP documented the following raptor species:

- American Kestrel – commonly observed in open habitats like burns and clearcuts;
- Bald Eagle – observed throughout the RSA in low numbers;
- Broad-winged Hawk – commonly encountered, primarily in areas of mature forest with a deciduous component;
- Great Gray Owl – one individual observed in marsh habitat along a small watercourse;
- Merlin – one individual observed at a rocky lakeshore;
- Northern Harrier – occasionally observed at large grass fens;
- Osprey – occasionally observed at large lakes;
- Red-tailed Hawk – occasionally observed in open habitats, particularly along hydro cuts; and
- Sharp-shinned Hawk – rarely encountered in forested habitats.

Relative abundance of year-round migratory birds at the baseline investigations area (e.g., winter, spring migration, breeding season, fall migration) is informed by ARUs (Section 3.2.6).

3.2.6 Autonomous Recording Unit Analysis

Manual vetting of a subset of the BirdNET ARU classifications confirmed the presence of 125 species. After removing the 43 species with fewer than 10 BirdNET detections, classification accuracy for the remaining species measured from manual vetting averaged 58.6%. Accuracy of the automated classification was over 80% for 69 species and over 90% for 53 species. Among the species confirmed by ARU surveys, 87 matched those confirmed through point count surveys and 38 were new species not detected during point count surveys.

After data filtering, acoustic activity (or relative abundance) models could be generated for 52 species, of which 29 had questionable model fits. Most models had relatively good generalizability, with few having very large variability in their expected RMSE values. Despite this, compared to the point count density models, a larger proportion of ARU acoustic activity models showed greater variability in their predictive ability. This may have stemmed from the fact that the models could not correct for the detection probability of each species, a function of the species calling rate and survey conditions. Despite this, the current analytical method still provides a sound way of modelling baseline conditions and eventually potential Project impacts, based on the relative activity of each species.

Mean predicted acoustic activity (detections per hour) at the average surveyed habitat condition for the 53 bird species modelled is provided in Figure 3–3. Average activity across the surveyed points during the surveyed period ranged from 0.0013 to 85 detections per hour. Of the proxy species listed in Section 3.2.1.1 and examined to help synthesize the modelling results, nine could be included in the acoustic activity modelling. Two forest proxy species were included in the acoustic activity modelling: Dark-eyed Junco and Ovenbird. Dark-eyed Junco was significantly more abundant near wetlands, which was consistent with the density model for this species. However, unlike the density models, its acoustic activity was significantly lower in riparian habitat, though this is consistent with its preference for the forest interior. Unlike the denstiy model, the best acoustic activity model for Ovenbird contained no habitat covariate. This may be due to the bird's loud vocalizations (can be heard up to 300 m from the source) limiting the ability of the model to link acoustic activity of the species to local habitat traits. Wetland proxy species whose acoustic activity could be modelled included Common Yellowthroat and Northern Waterthrush. Acoustic activity of Common Yellowthroat was higher in wetlands, which is not consistent with its point count density model but more consistent with its known habitat preference. Acoustic activity of Northern Waterthrush was not associated with any specific habitat type. Like the Ovenbird, this species' song is very loud, which could make it difficult to link to a specific location. With respect to the shorebird proxy species, Greater Yellowlegs, acoustic activity was significantly associated with wetland habitat as was seen for its point count density model. However, it also showed greater acoustic activity in disturbed habitat. Acoustic activity was also modelled for the Mallard, a waterfowl proxy species. Activity of this species was negatively associated with disturbed and treed habitats which is consistent with a preference for wetlands and waterbodies. Although an acoustic activity model for the American Kestrel, a raptor proxy species, was also developed, this species' activity was not associated with any specific habitat. This may stem from the species preferring a wide range of habitats and also emitting relatively loud calls. Finally, the acoustic activity of two SAR could be modelled: Olive-sided Flycatcher and Common Nighthawk. Both species were most frequenctly recorded in disturbed habitat, consistent with the point count density model for the Olive-sided Flycatcher.

Figure 3–9 shows the mean number of detections per hour for each week within the LSA at average levels of the numeric predictors predicted by the best-fitting model for the most abundant species included in the acoustic activity models. This figure provides a visual overview of the temporal distribution of bird

activity across the RSA, including the activity patterns of migratory species. Most bird species had low acoustic activity in May, with activity peaking in June and July and dropping again in August. This pattern is likely due to the gradual return of migratory birds from their wintering grounds in May. In June and July, territories are established by singing, which explains the peak in singing activity during this period (Figure 3–9). The decrease in acoustic activity observed in August could be attributed to several factors: birds may refrain from vocalizing to avoid drawing attention to their nests, breeding activities might have concluded and territorial singing may no longer be necessary, or the birds may have migrated to their wintering grounds. This pattern is best seen in species that over winter in Central and South America. Examples include Nashville Warbler, Magnolia Warbler, and Bay-breasted Warbler. Species that over winter in Central and South America have a low tolerance for cold climates and, as such, were expected to arrive in the RSA later in May / early June and, similarly, leave the RSA earlier than other species.

Some species had higher acoustic activity levels in May. These species were mainly composed of early nesters (e.g., Sandhill Crane), which are assumed to have the same pattern of activity as described for the cold-intolerant species beginning with low acoustic activity, progressing to a peak and followed by a gradual decline. However, this pattern was not observed for these species, likely because the ARUs were not deployed early enough to capture their return from their overwintering ranges (Figure 3–9). The gradual decline in acoustic activity of birds whose activity peaked in May can likely be attributed to a reduction in singing behaviour or migration to wintering grounds. Birds that peak in May are generally larger than an American Robin and can tolerate cold climates. The tolerance to cold climates allows these species to overwinter farther north, resulting in a shorter travel time to the RSA when conditions become tolerable for nesting. Examples of species that peak in May are Mallard, Ringed-neck Duck, Canada Goose, and Sandhill Crane. Timing of their migration is largely based on the availability of open water.

Finally, some species can be found year round and, therefore, showed a variety of different temporal patterns in acoustic activity (Figure 3–9). For exampled, Boreal Chickadee are most heard in May and August with lower acoustic activity in June and July, while Red-breasted Nuthatch showed a relatively consistent activity level across all recorded months. Other examples of birds that can be found year round include Pine Siskin, White-winged Crossbill, and Dark-eyed Junco.

3.3 Large Mammal Surveys

3.3.1 Aerial Surveys

WSP completed winter aerial surveys in 2021, 2022, 2023, and 2024 to record animals and sign (fresh tracks), with a focus on Caribou, Moose, Wolf, and Wolverine. Observed ungulate group classifications focused on Caribou; Moose were opportunistically classified. Unclassified Caribou (and Moose) observations were typically due to thick conifer cover and the inability to sex animals without further harassing them. Table 3-5 and Figure 3–11 summarize Caribou survey results by year and winter aerial survey population metrics for Caribou. It should be noted that the aerial survey extent was modified each year (Figure 2–10a and Figure 2–10b). Figure 3–12a to, Figure 3–12d, summarizes relative distributions of Caribou, Moose, and Wolf by year and area sampled. Moose winter activity areas typically did not overlap with Caribou. They tended to be associated with early successional habitats (created by forestry and burns) near heavier undisturbed tree cover. Wolves were generally recorded in areas with Moose, not Caribou, suggesting that Caribou may be selecting wintering areas with reduced predation risk. In 2021, one pack of Wolves (five animals, Attachment 2) were recorded southeast of the PDA. Winter aerial Moose population summary is provided in Table 3-6.

- **2021 survey (February 27 to March 5):** Survey conditions for the aerial survey were challenging with respect to detection of tracks and classification of freshness of tracks because of low snow levels (poor snow conditions) in the winter of 2021. This challenge was not limited to the baseline investigations area; it was a factor across the province. Shallow snow depths can allow greater mobility of wildlife, reduced detection probability and difficulty in distinguishing old and new tracks in heavily used areas, requiring intensive search efforts to confirm track freshness and to locate animals. Some effort was spent on the outside periphery of the survey area to locate groups. Several locations of concentrated activity were revisited and intensely searched (100% systematic local grid search pattern) within the survey area to attempt to locate and classify groups.
- **2022 survey (February 24 to March 5):** Survey conditions for the aerial survey were optimal at the start of the survey, but towards the end of the survey the duration of time elapsed since a recent snow event resulted in a large accumulation of tracks on the landscape with increasing difficulty to distinguish fresh from old sign. Light conditions were optimal in most days and survey effort was timed to maximize best light conditions. Several locations of concentrated fresh Caribou activity were opportunistically revisited during subsequent days of the survey and intensely searched (100% systematic local grid search pattern) within the survey area to attempt to locate and classify those groups.
- **2023 survey (January 26 to February 6):** Survey conditions were good throughout most of the survey, with an inclement weather delay on January 27 and afternoon of February 3; colder conditions occurred during the capture/collaring phase of the work. Light conditions were adequate during most of the survey days.
- **2024 survey (February 17-25):** Survey conditions were variable during the survey. Survey effort and focus was directed by the crew lead, with primarily searching for tracks and animal detection when light conditions were assessed as good, and on telemetry relocations and reduced duration of survey effort during periods of poor light.

No Caribou groups were detected in proximity to the mine site portion of the PDA during any of the winter surveys (a-d). Caribou overwintering habitat adjacent to the mine site portion of the PDA is minimal, with vegetation cover generally consisting of early successional conifer-dominated stands, which result in poor habitat quality because of recent disturbance by wildfire and forestry activity. Therefore, Caribou activity was not anticipated to be frequent right around the mine site portion of the PDA. However, south and southeast of the Project site, high-quality tracts of mature coniferous forest occur, portions of which have been provincially classified as Category 1 overwintering areas for Caribou. These known overwintering areas all had confirmed use during the 2021 survey (Figure 3–13). In addition, several potentially new wintering areas in the south and southeast corners of the RSA were revealed. Caribou were typically observed in areas with contiguous mature coniferous forest blocks; activity was rarely associated with disturbed areas. However, in one location, Caribou foraging activity was observed along the edges of linear transmission line.

MECP provincial data and baseline winter aerial survey data were used to reconstruct the Caribou population. Figure 3–11 summarizes the modelled winter Caribou population trend for the Population RSA, which reveals a long term declineand a current population density below the long-term mean.

3.3.2 Satellite Telemetry Program for Caribou

This information is to be updated annually in a separate monitoring report to MECP (February 2024, 2025, 2026, 2027). A Boreal Caribou satellite telemetry study was initiated (3-6 Feb 2023) concurrent with the latter part of the 2023 winter aerial survey. The deployed collars consisted of 50 Telonics GPS/VHF (Model

TGW-4670-4) iridium satellite collars (see Figure 6.13.2 in Section 6.13). All collars were programmed to collect 3 GPS fixes/day (0500, 1300 and 2100 UTC) until the programmed drop of date of 31 Mar 2027. All collars were equipped with a mortality sensor and a VHF transmitter. Boreal Caribou captures, collar deployments and biological sample collections were primarily conducted by Bighorn Helicopters, supported by the WSP survey team (i.e., locating/-re-locating groups for capture and coordination of areas to focus collar deployment efforts throughout the study area). The collars were deployed within a 100 km radius of the Project.

- Capture and collar deployment complied with the *ESA*-B permit (# NR-B-005-21) conditions and the associated approved WACC protocol (#23-484). Biological sample collections were conducted by the capture crew which included blood samples (from the cephalic or jugular vein), hair samples (with roots from the shoulder area), and fecal samples directly from the anus (sufficient to assess pregnancy at the time of capture and for potential DNA analysis).
- Fecal samples (for future analyses) and hair samples with roots (for cortisol analysis) were collected from all captured Boreal Caribou and were submitted to Trent University following completion of the collaring program on 13 Feb 2023.
- Blood samples were acquired from 49 of the 50 captured Boreal Caribou and were shipped to the University of Guelph's Animal Health Laboratory on 13 Feb 2023. The University of Guelph prepared the blood serum samples and shipped them to Herd Health Diagnostics Lab in Pullman, Washington, for BioPRYN analysis. Of the 49 samples tested 1 test was inconclusive, leaving 48 samples with a confirmed result. Of the 48 confirmed results, 3 samples indicated open cows (not pregnant) and 45 samples indicated pregnancy, yielding a pregnancy rate of 93.75%.
- Mortality Investigations of collared Boreal Caribou are undertaken as an *ESA* permit requirement. As of the timing of this EA/EIS, there were 5 mortality signals in 2023 and 3 mortality signals as of August 6, 2024. One additional mortality signal was determined to be a mechanical collar failure and not a Caribou mortality.

3.3.3 Caribou Calving Area Surveys

Transects were flown over CC1, CC2, and CC3, as well as over Birch Lake. The existing east–west transmission line was also flown from the west TL alternative to Slate Falls, covering CC6, CC7, and the grouping of CC10 to CC22. Three separate instances of Caribou were documented during surveys. A Caribou was observed in the existing camp along with calf tracks, a Caribou cow and calf were seen on the bank of a river north of C5, and one Caribou was seen swimming to a small island in Jeanette Lake.

Extensive game trails through and adjacent to bogs and disturbed lichen (i.e., feeding evidence) were noted in the existing E1C transmission line and grouping of CC10 to CC22, as well as around Birch Lake, the existing exploration camp and the proposed mine access road.

3.3.4 Moose Aquatic Feeding Area Surveys

More than 90 MAFAs were assessed during surveys and documented use in many. It was confirmed that conditions generally reflected the existing rankings. Sixty-four MAFAs were of high (42) and very high (22) potential and are considered SWH (Section 4.2.2).

3.4 Wolverine Surveys

Surveys completed by others in support of the Project have previously documented Wolverine in the Study Area:

- DST (2012, 2013a) documented two observations of Wolverine tracks near the PDA; these observations were collected during aerial surveys completed in 2011;
- Wolverine have been reported in the area six times between 1982 and 2000 (DST 2012, 2013a); and
- NWES (2020) reported that "several observations of furbearers or their tracks were recorded during the 2020 aerial survey, including Wolverine." NWES observed a Wolverine on Seagrave Lake during aerial surveys in March 2020.

Evidence of Wolverine (e.g., tracks) were recorded along the edges of lakes and streams in a number of locations during various (targeted and non-targeted) winter aerial programs (Figure 2). To further characterize Wolverine habitat use and Wolverine demographics within the LSA, a run pole program was initiated in February 2023 as described in Section 2.6.2. During the 2023 monitoring season, Wolverine were detected at 12 stations (Figure 3 and Table) and a total of 13,406 photographs of Wolverine were collected; photographs do not represent distinct visits by individual Wolverine but instead single images of Wolverine across duration of the animal's time at the run pole station. Identification of individuals and sex was completed by Wildlife Genetics International lab.

A total of 66 hair samples were collected in 2023, with 60 samples attributed to Wolverine based on photographic assessment. Hair samples were received by Wildlife Genetics International on June 9, 2023, and results were provided in the fall of 2023. Throughout 2023, 33 trail camera detections documented Wolverines at 12 of the run pole stations. Of these detections, eight individuals were identified through genetic analysis of hair snag samples. Of these individuals, sex was determined as male for four of the individuals and female for two of the individuals.

3.4.1 Wolverine Habitat Suitability Model

FRI data were available for 14,315 km^2 of the 17,181 km2 RSA (83%) and full coverage was available within both PDA and LSA. The 2,866 km^2 area without FRI coverage was not included in the HSI assessment; instead, it is presumed that, given the contiguous nature of habitat in the data-deficient areas, that proportionally similar amounts of moderate and high-quality habitat are available for Wolverine as in the rest of the RSA. Excluding areas with missing FRI data, the HIS model estimates 9,466 km^2 of high quality habitat and 1,518 km^2 of moderate quality habitat for wolverine across the RSA. Correcting for the area with missing FRI data, The HSI estimates a total of 13,181 km^2 of quality wolverine habitat across the RSA (see Table 3-8 and table notes).

3.4.2 Wolverine Population Estimation

The density of wolverine within the RSA was estimated to be 3.23 wolverine/1000 km^2 (95% CI: LCL=1.82, UCL=5.74). The best density model for wolverine followed a half normal detection probability function, modelled the detection probability at the activity centre (g(0)) as a function of sex, and included no spatial covariates. Models that included sex for the detection function scaling parameter (sigma) resulted in unrealistically large density estimates so these were not considered for the final model. Although road density gave a more favourable AICc value in the final modelling step, certain parameters from this model could not be estimated making this model unreliable.

3.5 Bat Surveys

3.5.1 Bat Maternity Roosting Habitat Assessments

A total of 53 areas were visited at which one to seven plots were surveyed (total of 125 plots) to estimate the density of suitable maternity roost trees per ecosite. The number of suitable snags with a DBH of at least 10 cm observed within each plot ranged from zero to 11 snags. Over all plots surveyed, the average

density of cavity trees with a DBH of at least 10 cm across the RSA was 47.7 trees per hectare with a minimum of 0 and a maximum of 220 trees per hectare. The ecosites surveyed included B024, B034, B049, B050, B052, B055, B065, B070, B088, B104, B119, B127, B128, and B140. Average snag density within all but three of these ecosites was well above 20 snags per hectare (Table 3). The remaining three (B088, B127, and B140) had average cavity tree densities of 20 snags per hectare (Table 3). This indicates that most or all deciduous or mixed forests in the baseline investigations area have sufficient cavities to support bat maternity roosts. Most identified potential bat roosting features were in a Poplar species (64% of identified tree species) followed by Spruce (20% of identified tree species) and Birch (12% of identified tree species), with lower numbers in Pine and Fir species. While deciduous trees expectedly occupied most of the identified potential cavity trees (74%), coniferous trees still made up a significant portion of the identified suitable cavity trees (26%). Acoustic surveys (results described below) indicate that bats occur in all habitats in the RSA, and these results suggest that most areas within the RSA, including coniferous forests, provide suitable maternity-roosting habitat. The range of ecosites identified as harbouring suitable roost tree densities spanned multiple forest types including coniferous, deciduous/mixed, coniferous swamp, and sparse treed forests. As such, all forested ecosites were mapped as bat maternity habitat (Figure 3).

3.5.1.1 Bat Maternity Habitat Acoustic Results

Bat acoustic activity was processed from 62 sites across the RSA. Nineteen sites were monitored between May 31 and June 29, 2021; 37 sites were monitored between June 2 and August 22, 2022; and 26 sites were monitored between May 25 and July 13, 2023, amounting to a total of 3,424 detector nights. In 2021, 25,384 bat passes were recorded, of which 6.8% (1,732 passes) were confirmed to be by SAR bats. Of these, 251 passes could be accurately identified as Little Brown Myotis, while 1,481 passes could only be classified as belonging to a Myotis species. A greater monitoring effort in 2022 resulted in the detection of 135,723 bat passes, of which 7.5% (10,160 passes) were confirmed to be by SAR bats. Of these, 1,005 passes could be accurately identified as Little Brown Myotis, while 9,152 passes could only be classified as belonging to a Myotis species. Additionally, three passes were confidently classified as Northern Myotis. Maternity habitat acoustic surveys in 2023 resulted in the detection of 40,717 bat passes, of which 14.1% (5,727) were confirmed SAR. Of these, 325 passes could be confidently identified as Little Brown Myotis, with the remaining 2,701 passes classified as an unknown Myotis species. Several passes (2021: 663 passes; 2022: 6,707 passes; 2023: 1,937 passes) were by an unknown high-frequency species. Although these high-frequency passes may have been emitted by either a SAR bat species or the Eastern Red Bat, the majority were likely by SAR bats since Eastern Red Bats accounted for 0.2% (387 passes) of all recorded bat passes across the three years. Attachment 4, Tables D1 to D3 provide a complete account of bat passes by each species at each detector.

It is important to note that, although very few passes were confirmed Northern Myotis, this species is likely much more prevalent than the data suggest. In most instances, the Northern Myotis emits echolocation calls that resemble those of the Little Brown Myotis. Recordings identified to the group Myotis could have been produced by either a Little Brown Myotis or a Northern Myotis. The Northern Myotis can, however, emit calls of much higher maximum frequency than the Little Brown Myotis in highly cluttered habitat. Unfortunately, recordings made in high clutter are of poor quality and higher frequencies attenuate much more quickly, making diagnostic recordings of Northern Myotis exceedingly rare.

The most frequently recorded species within the baseline investigations area were by far the Silver-Haired Bat, followed by the Hoary Bat. These species accounted for 47.9% (12,168 passes) and 31.6% (8,029 passes) of recorded passes in 2021, 55.1% (74,787 passes) and 18.9% (25,682 passes) of passes in 2022, and 54.5% (22,202 passes) and 15.5% (6,295) of passes in 2023. Most passes auto-classified as Big Brown Bat were manually classified to a group comprising both Big Brown Bats and Silver-haired Bats (196 in 2021, 1,281 in

2022, 635 in 2023). The remaining passes (2,594 in 2021, 16,768 in 2022, 6,570 in 2023) were classified as an unknown low-frequency species, which may have been produced by either a Silver-haired, a Hoary, or a Big Brown Bat. No passes could be confirmed as Big Brown Bat. Attachment 4, Tables D1 to D3 provide a complete account of bat passes by each species at each detector.

As expected, the Tricolored Bat was not identified in the RSA. Published results from a comprehensive bat monitoring program across northern Ontario (Layng et al. 2019) have led to speculation that Tricolored Bats may occur farther west than originally thought. However, conclusions from this study are based on 5 of over 7,000 bat recordings and all 5 recordings yielded different results when subjected to two different classifiers. Additionally, capture surveys would be required to verify presence of the species before any confirmation can be made. Over 312,000 bat recordings spanning two maternity, one spring emergence, and two swarming/mating seasons were obtained within the RSA. No Tricolored Bat was identified in either survey period, providing strong evidence that this species does not occur in the RSA. Little Brown Myotis and Northern Myotis are the only SAR bats confirmed in the RSA (Figure 3, Figure 3, Figure 3 and Figure 4–2). Attachment 4, Figures D13 to D17 present representative spectrograms of all bat species confirmed in the RSA.

Acoustic surveys were conducted in 2022 at building in the existing camp with potential to serve as maternity roosts for SAR bats. Activity of SAR bats at the entrance of maternity roosts in anthropogenic structures should be relatively high, highest at the start and end of the night when bats emerge and return to the roost, and should be expected to be higher than that of species that do not form maternity roosts in buildings (i.e., Silver-haired bats and Hoary bats). Activity of SAR bats at the four monitored candidate buildings was very low. A single unknown Myotis recording was obtained at sites camp bat 2, 3 and 5. Seventeen Myotis passes were recorded at camp bat 1, and no SAR bats were recorded at camp bat 4. All above SAR bat detections at the existing camp buildings occurred in the middle of the night. Conversely, each of these locations saw between 1,200 and 2,250 passes by low-frequency species of which the majority were by Hoary bats. These results confirm that bats are not roosting in the existing camp buildings. Attachment 4, Tables D1 to D3 provide a complete account of bat passes by each species at each detector.

Weather Conditions

The closest weather station to the Project site is Ear Falls (AUT) at approximately 100 km to the southwest followed by Red Lake (Airport) at approximately 120 km to the west and Pickle Lake (AUT and Airport) at approximately 130 km to the east. All three stations were looked at for weather data to identify nights when conditions were considered optimal for bat activity (i.e., temperature of at least 10°C, total precipitation of 5 mm or less, average windspeed of 10 km/h or less). Weather from the three stations during each night of maternity habitat bat acoustic surveys was averaged to obtain a likely approximation of the weather at the Project on those nights.

During the 2021 maternity habitat acoustic surveys, the average night temperature was 14.6°C and ranged between 6.7°C and 20.8°C. It rained on only four nights, resulting in less than 1 mm of precipitation over 0.5 to 1 hour on each night. Windspeed averaged 8.6 km/h and the average on each night never surpassed 20 km/h, ranging from 2.5 to 18.7 km/h. The total number of survey nights when conditions were considered optimal for bat activity ranged between 10 and 19 nights at 10 of the 19 monitored sites, and between 4 and 9 nights at the remaining 9 sites (see Attachment 4, Table D4, and Figure D1 for a graphical representation of bat activity relative to weather conditions).

During the 2022 maternity habitat acoustic survey period of 82 days, the average night temperature across the three weather stations was 14.3°C and ranged between 4.5°C and 22.4°C. It rained on 39 nights, of which 17 saw total average precipitation amounts of less than 1 mm. The total precipitation amount only

surpassed 5 mm on eight nights, and never surpassed 10 mm. Windspeed averaged 8.1 km/h and the average on each night never surpassed 20 km/h, ranging from 2.7 to 17.1 km/h. The total number of survey nights when conditions were considered optimal for bat activity ranged between 10 and 36 nights at 33 sites, and between 3 and 9 nights at the remaining 4 sites. During the two nights of surveys at the existing camp buildings, conditions remained suitable on both nights except for a period of rain lasting three hours (see Attachment 4, Table D4, and Figure D4 for a graphical representation of bat activity relative to weather conditions).

During the 2023 maternity habitat acoustic survey period of 50 days, the average night temperature across the three weather stations was 15.5°C and ranged between 6.8°C and 23.4°C. It rained on 14 nights, of which 10 saw total average precipitation amounts of less than 1 mm. The total precipitation amount never surpassed 2 mm on either survey night. Windspeed averaged 8.1 km/h and the average on each night never surpassed 20 km/h, ranging from 2.6 to 16.8 km/h. The total number of survey night when conditions were considered optimal for bat activity ranged between 29 and 34 nights (see Attachment 4, Table D4 and Figure D5 for a graphical representation of bat activity relative to weather conditions).

3.5.2 Bat Hibernaculum Assessments/Swarming Surveys

Fifteen locations with potentially suitable hibernaculum features were identified through the desktop exercise or during field surveys, including nine abandoned mine sites (M1 to M9) and six locations with cliffs (Cliff1 to Cliff6). All of the mine sites investigated were abandoned gold mines. The feature at M1 was shallow with no obvious crevices or cavities and was consequently determined to be unsuitable as a potential hibernaculum. The feature at M2 was deeper and had several potentially suitable crevices for hibernating bats. During the investigation of mine sites M3 to M6, field staff were unable to locate mine features at M4. Two features were identified at the M3 mine: one partially filled-in vertical shaft with protruding boards and pipes (M3-1), and another potential shaft entrance (though this could not be confirmed) covered with a metal board (M3-2). One feature at M5 (M5-1) and one feature at M6 (M6-1) also resembled partially filled-in or collapsed vertical shafts. Despite an exhaustive search, field staff were unable to locate mines M7 and M8, and M9 did not contain any features potentially suitable to hibernating bats. During late August / September 2021 and May 2022, bat detectors were deployed at the potentially suitable mine features to capture fall swarming and spring emergence activity. Specifically, one bat detector was deployed at M2 and was coupled with a second bat detector placed 20 m away which served as a control site. One bat detector was deployed at each of M3-1, M3-2, M5-1, and M6-1. One bat detector was also deployed at a site in the forest between M3 and M6 to serve as a control site (M3-6-Control) (Figure 2–18). During the 2023 mid-summer to fall hibernacula surveys, the same sites were monitored with the exception of M2. Results from the 2021 and 2022 surveys resulted in the confident removal of M2 from the list of candidate hibernacula.

Very few natural bat hibernacula in Ontario and Canada are known. There is no known karst geology within the RSA. Six cliffs or rock outcroppings (Cliff 1 to Cliff 6) were identified during ground and aerial surveys, of which four contained features such as deep fissures that were potentially suitable for bat hibernation (Cliff 1, Cliff 2, Cliff 3, and Cliff 6). In 2021, six bat detectors were placed along Cliff 1 (Cliff1-1 to Cliff1-6), distanced approximately 100 m apart (Figure 2). An additional detector was placed before the start of the cliff where there was no elevation to serve as a control site, but this detector malfunctioned, and no data were collected there. Cliff 1 was located on the northern edge of the Springpole Arm, and so the cliff face could not be approached closely enough to identify potentially suitable hibernation features, though visual inspection from the helicopter suggested an absence of such features. As such, site selection for placement of detectors along the Cliff 1 edge was based on the safest access points to the cliff edge. Two detectors were placed in front of suitable features at Cliff 2 (Cliff 2-1 and Cliff 2-2), one detector was deployed in front

of Cliff 3, and another two detectors were placed near Cliff 6, one in front of Cliff 6 (Cliff 6-1) and the other 20 m from Cliff 6 to serve as a control site (Cliff 6-Control) (Figure 2). Cliff 4 and Cliff 5 were investigated due to presence of exposed rock and cracks, but features at these sites were not deep enough to sustain hibernating bats. In May 2022, bat detectors were re-deployed at the same cliff sites as 2021. However, in addition to the seven survey sites at Cliff 1 from 2021 (Cliff 1-1 to Cliff 1-6, and the control site), four new recording sites were added along Cliff 1 (Cliff 1-7 to Cliff 1-10) to extend the coverage of the cliff. An additional detector was also deployed at a control site near Cliff 2 (Cliff 2-Control) and another at a control site near Cliff 3 (Cliff 3-Control). During the 2023 mid-summer to fall hibernacula surveys, the same sites were monitored as the previous year, with the exception of Cliff 2 and Cliff 3. Results from the 2021 and 2022 surveys resulted in the confident removal of these cliff sites from the list of candidate hibernacula. Candidate hibernacula surveys in 2023 also included the addition of three new control sites at Cliff 1 (Cliff 1-control2, Cliff 1-control3, and Cliff 1-control4) placed east along the cliff, of which one (Cliff 1-control3) malfunctioned and produced no data. An additional control site was also added for Cliff 6 (Cliff 6-control2) (Figure 2).

A total of 10,486 bat passes in 2021, and 15,577 bat passes in 2022, were recorded at the eight potential hibernaculum locations monitored with bat detectors. Of these, 1,586 (2021) and 2,657 (2022) were by Little Brown Myotis, 328 (2021) and 682 (2022) were by an unknown Myotis species, and 2,360 (2021) and 1,592 (2022) were by unknown high-frequency species. Results from 2021 and 2022 provided sufficient evidence to remove three of the eight sites (M2, Cliff 2, Cliff 3) from the list of candidate hibernacula. A total of 85,189 passes were detected at the remaining five candidate hibernacula in 2023. Of these, 13,141 were by Little Brown Myotis, 474 were by an unknown Myotis species, and 15,466 were by an unknown high-frequency species. Although the Eastern Red Bat also emits high-frequency calls similar to Ontario SAR bats, the low proportion of passes classified as the Eastern Red Bat relative to the total amount of high-frequency passes recorded (18 of 4,292 in 2021, 0 of 4,931 in 2022, and 1,490 of 30,572 in 2023) strongly suggests that most passes classified as an unknown high-frequency bat were by a SAR. This is further supported by the very small proportion of manually vetted files auto-classified as Little Brown Myotis or other unknown high-frequency species that were actually Eastern Red Bat (143 of 4,255 passes; 3.4%). We therefore reasonably assume that almost all passes auto-classified as Little Brown Myotis or an unknown high-frequency species were of the genus Myotis. Attachment 4, Tables D1 to D3 include a complete account of bat passes by each species at each detector. Sections 3.5.2.1 to 3.5.2.5 present an assessment of bat activity at the candidate sites in relation to their use by bats for hibernation, which led to the compilation of the final list of candidate hibernacula comprising M3, M5, M6, and Cliff1.

3.5.2.1 M2

Activity of high-frequency bats at M2 did not noticeably differ from that at M2-control and remained relatively low throughout the night during fall 2021 and spring 2022. It also was not higher than that of low-frequency bats in either period (Figure 3-19). Both sites had identical patterns of hourly activity that did not match any pattern expected for bats swarming or emerging from a hibernaculum. M2 is therefore not a bat hibernaculum.

3.5.2.2 M3, M5 and M6

During fall 2021 surveys, activity of high-frequency species at M3-1 was relatively high, with most of the activity occurring in the first four hours of the night. Activity at M3-2 was consistently low throughout the night, while that at M3-6-control was highest only in the first hour of the night, followed by a sudden drop which may indicate the presence of a nearby day-roost. Activity of SAR bats was also qualitatively equivalent to that of non-SAR species at M3-1, while SAR activity at M3-2 and the control site were qualitatively lower compared to non-SAR (Figure 3–19). Similar to M3-1, activity of SAR bats at M5 and M6 was also relatively

high compared to the control site and was qualitatively equivalent to that of non-SAR bats. The hourly pattern of high-frequency bat activity at M5 and M6 began low and peaked later in the night (around 23:00), dropping suddenly after only one to two hours. This somewhat reflects the expected pattern of swarming activity at hibernacula, which was predicted to peak in the middle of the night, gradually increasing at the start of the night and gradually decreasing at the end of the night.

During spring 2022, activity of SAR was generally relatively low, though this was the case at all monitored sites. Activity of SAR at M3 and the control site was qualitatively lower compared to that of non-SAR but was qualitatively equivalent to that on non-SAR at M5 and M6 (Figure 3-19). Additionally, bat activity at hibernacula during spring emergence was expected to begin relatively high at the start of the night when bats should take advantage of more suitable temperatures, yet this was not observed any of the survey sites during spring 2022. Nevertheless, no published records of hourly acoustic activity at hibermacula exist as a reference for drawing conclusions.

During the 2023 hibernacula surveys, activity of SAR bats was relatively high at M3-1 and M6-2 (Figure 3–23). Both these sites generally had higher SAR bat activity toward the middle of the night compared to the start and end of the night, consitent with predictions for activity of swarming bats. Although there was no obvious peak in activity during the fall period, SAR activity was detected until as late as September 19, which was not observed at any other candidate hibernaculum except for Cliff 1 (Figure 320 and Figure 3-21).

Finally, the trail camera at M3-1 deployed during August and September 2023 resulted in nine trigger events, none of which were by bats (one was caused by rain, one by a White-tailed Deer and three by a flying squirrel, and the other sources could not be identified). However, this camera was moved out of place (possibly by an animal) early in the survey such that the field of view was 90% obstructed by a tree trunk. Therefore, results from this camera cannot be used to make conclusions about the candidate hibernaculum.

Given the above evidence, the likelihood that there is a bat hibernaculum at one or more of these sites cannot be rejected.

3.5.2.3 Cliff 1

Activity of high-frequency bats at Cliff 1 in the fall 2021 increased gradually from Cliff 1-1 to Cliff 1-6 (Figure 3–19). Activity of SAR bats at all Cliff 1 sites except for Cliff 1-4 was highest in the first half of the night, with a peak at 21:00, which is not consistent with the peak expected in the middle of the night for swarming bats. Conversely, the hourly activity pattern of high-frequency bats at Cliff 1-4 did not increase to a peak and, instead, was at its highest in the first hour of the night and then dropped to remain relatively consistent throughout the night. This pattern is more reflective of that observed for bats in cluttered habitats (Brooks 2009) and, indeed, there was a treed ledge on the cliff face below the bat detector that bats may have been using as a commuting corridor.

During spring 2022, SAR bat activity remained consistently low at all Cliff 1 sites and was especially low at Cliff 1-1 and Cliff 1-9 (Figure 3–19). Activity of SAR bats was qualitatively equivalent to that of non-SAR at all sites except for Cliff1-8 and Cliff1-9, where it was qualitatively higher than that of non-SAR (though these differences were not statistically significant). Hourly activity at all Cliff 1 sites except for Cliff 1-1 and Cliff 1-9 generally began low, increasing to a peak in the middle of the night and decreasing toward the end of the night. Although this goes against hourly trends expected for spring emergence, no published records of hourly acoustic activity at hibermacula during spring exist as a reference for drawing conclusions.

During fall 2023, activity of SAR bats along Cliff 1 was relatively high compared to control sites, though activity of non-SAR bats was overall higher compared to that of SAR bats (Figure 3–20 and Figure 3-21). Non-SAR activity gradually increased along Cliff 1, remained constant from the fifth survey point to the

eigth survey point, and then gradually declined toward the last survey point along Cliff 1 (Figure 3–20 and Figure 3-21). This pattern is suggestive of bats flying along the cliff, potentially commuting. This is further supported by most of the low-frequency calls at Cliff1-6, a site with both high SAR and non-SAR activity, being of constant frequency and long duration, which is characteristic of calls emitted in open spaces. These calls were also often followed by their echo off the cliff face. In contrast, activity of SAR displayed peaks and valleys along Cliff 1 and their echolocation calls at Cliff1-6 were more akin to those of bats in a cluttered environment. This suggests the SAR bats were utilizing specific sites along the cliff. Finally, although activity of SAR bats at Cliff 1 was highest during the summer, SAR bats were active at the cliff until September 28, the latest date they were detected at any of the monitored sites.

Given the above evidence, Cliff 1 cannot be dicounted as a bat hibernaculum.

3.5.2.4 Cliff 2 and Cliff 3

Hourly activity of high-frequency species at Cliff 2 and Cliff 3 remained consistently low throughout the night during fall 2021 and spring 2022 and average nightly activity at the two sites did not differ from that at their respective control sites. The proportional activity of high- and low-frequency species was also not significantly different at either site with activity of low-frequency species being qualitatively higher at all sites, particularly at Cliff 3 (Figure 3–19). Cliff 2 and Cliff 3 are therefore likely not bat hibernacula.

3.5.2.5 Cliff 6

During fall 2021, activity of SAR bats at both Cliff 6 and its control was identical and half that of non-SAR species (Figure 3). Additionally, activity of SAR bats was highest during the first two hours of the night, decreased to nearly zero around midnight and remained low throughout the rest of the night, which is contrary to predictions for activity of swarming bats. In the case of Cliff 6-control, a second smaller peak was observed during the last hour of the night, which may indicate the presence of a day roost in the vicinity of this site.

During spring 2022, activity of high- and low-frequency bats at Cliff 6 and its control followed identical distributions, peaking in the first two hours after sunset and gradually decreasing throughout the night. This pattern was not observed at any other site during spring 2022. Although this pattern is similar to that observed for Little Brown Myotis during spring emergence at a hibernaculum near Renfrew, Ontario (Adams et al. 2015), activity at the Renfrew hibernaculum was 10 times lower during spring emergence compared to fall swarming. In contrast, activity levels at Cliff 6 during the spring and fall were similar to each other (Figure 3). Swarming bats in the fall should lead to much higher activity levels compared to those in the spring at a given hibernaculum entrance.

During fall 2023, SAR bat activity at Cliff 6 was relatively low, equivalent to that at both its control sites, and never surpassed that of low-frequency species (Figure 3–19). Activity was highest during the months of July and early August and practically stopped as of August 22 (Figure 3–22). This same pattern of seasonal activity was also observed at the control sites. This is in contrast to other monitored sites where SAR bats were active until August 31 and, in the case of Cliff 1, well into September.

Finally, the trail camera at Cliff 6 deployed during August and September 2023 resulted in two trigger events, neither of which were by bats (one was caused by rain and the other by a large moth).

Given the above combined evidence from acoustic and camera data, it can be confidently determined that Cliff 6 is not a hibernaculum.

3.6 Amphibians and Amphibian Breeding Habitat

DST (2013a) documented Spring Peeper, Gray Treefrog, and Wood Frog during amphibian call surveys and a Blue-spotted Salamander incidentally. Although targeted surveys for reptiles and amphibians were not conducted in 2021 by WSP, four frog and one snake species (Common Gartersnake) were observed incidentally during field investigations; Spring Peeper, American Toad, and Wood Frog were abundant throughout the RSA in a wide variety of habitats, while Northern Leopard Frog was present locally in low numbers. In 2022, WSP used ARUs placed in wetlands to document calling amphibians. ARUs captured high numbers of Spring Peepers and Wood Frogs and occassionally robust numbers of American Toad (Table 3).

Several other frog species have the potential to be present in the RSA; Boreal Chorus Frog and Mink Frog have historical ranges that overlap the baseline investigations area, while Green Frog occurs to the south (Conant and Collins 1998). Other species such as Central Newt and Mudpuppy occur near the border of Ontario and Minnesota and may occur beyond the southern limit of the boreal forest. Spotted Salamander and Redback Salamander likely do not occur in the RSA.

3.7 Opportunistic Wildlife Sightings

Eighteen species of mammals were observed during field investigations, including bats recorded on detectors, as well as incidental sightings (including tracks and other sign; Attachment 2). North American River Otter, North American Beaver, and American Marten were frequently recorded in riparian and open water areas through the RSA during winter aerial surveys (Figure 3-10). Wolf tracks and signs were common throughout the baseline investigations area. Moose signs were observed frequently, and individuals were often observed foraging in rivers during surveys. Black Bear signs were less frequent but still noticed. Caribou signs were also frequently documented during summer and fall field surveys, and two Caribou were even seen swimming across Birch Lake north of the Project. Likewise, one Caribou was seen in the existing camp during August surveys.

For the purposes of this discussion, furbearers refer to Beaver, Canada Lynx, Red Fox, Red Squirrel, Snowshoe Hare, and American Marten, River Otter and other mustelids. All furbearers have been documented either by visual confirmation or other signs, such as tracks, in the RSA. Historical trapping records were obtained for 115 trapping areas between 1993 to 2017 by NWES (2020) (Table 3-10).

- Beaver was reported as relatively abundant by NWES (2020) and was documented by WSP in 2021 and 2022. Beaver was counted 9,322 times, the second most abundant furbearer in the historical trapping records.
- American Marten was most abundant. American Marten is abundant in the RSA (as noted during aerial surveys) as martens prefer mature coniferous forests while Fishers prefer mixed or hardwood early succession forests (Dobbyn 1994). Trapping records reported 219 Fishers between 1993 to 2017 compared to 29,795 American Martens.
- Red Squirrel and most mustelids were also recorded in abundances over 1,000 in the trapping data.
- Other common furbearers include Coyote, Fisher, Racoon and Muskrat. Coyote was not documented in field surveys and likely occurs around Ear Falls. It is unlikely that Coyote occurs in the dense, heavily forested areas of the RSA, but they may be found in successional burn areas, the southern portion of the RSA or closer to settlement areas (e.g., Slate Falls). Trapping records reported 22 Coyotes between 1993 and 2017 compared to 144 Wolves in that same timeframe.
- Raccoon, a common woodland creature in southern Ontario, is very scarce in far north areas, likely because of the long winters (Dobbyn 1994). Only 14 Raccoon have been noted in trapping records.

- Muskrat is the largest and most aquatic member of the vole family (Dobbyn 1994). Muskrats inhabit marshes and shallow lakes and areas where slow flow and abundant vegetation occurs. Where water does not freeze to the bottom, Muskrat may be found. As Muskrat push-ups (small structures made of frozen vegetation covering a hole in the ice) are difficult to spot during the winter and Muskrat signs are difficult to spot during aerial surveys, trapping data are used to inform occurrence. Trapping records reported 981 Muskrats between 1993 to 2017, suggesting they are relatively common.

3.7.1 Small Mammals

DST (2012, 2013a) completed some small mammal trapping at the PDA and documented Northern Red-backed Voles, Deer Mouse, Least Chipmunk, Red Squirrel and Masked Shrew. In 2022, a program was completed for the Human and Environmental Health Risk Assessment that was intended to develop tissue chemistry data that could be used to characterize ecological risks to small mammals and their predators (e.g., hawks, owls, fox, weasels). Small mammals and animals which consume them are valued ecosystem components, and understanding baseline levels of chemicals of potential concern allows for an evaluation of impact during and post construction. Three species of small mammals were captured during the Human and Environmental Health Risk Assessment program; Northern Red-backed Vole, Short-tailed Shrew, and Deer Mouse. The program was completed under Wildlife Scientific Collectors Authorization (#1101986) and Wildlife Animal Care Committee approval (22-498) for the euthanization of 20 small mammals; the program would end once 20 animals were captured. Traps were placed at eight locations (Figure 3); five traps in each location) around the existing camp and within one night 20 animals were captured.

3.7.2 Reptiles

Although targeted surveys for reptiles were not conducted by WSP in 2021, one snake species was observed during field investigations. Common Gartersnake was observed frequently throughout the RSA. Common Gartersnake includes two lineages: Eastern Gartersnake and Red-sided Gartersnake. Occurrences of both lineages are documented around Slate Falls (Rowell 2012). Determining the extent of Red-sided Gartersnake is problematic due to wide variation that exists in colouration and pattern of both lineages (Rowell 2012). No other snake species are expected to occur in the RSA as no other species range occurs beyond the southern edge of the boreal forest.

No turtles were observed during field investigations, and the Project site is farther than the northern range for most turtles in Canada; Western Painted Turtle and Snapping Turtle occur around Sioux Lookout and Ear Falls and may be found around the RSA.

3.7.3 Insects

Thirty species of butterflies were recorded incidentally during field investigations in 2021. A full list is provided in Attachment 2. One species, Old World Swallowtail, is considered a rare species in Ontario (ranked S2S3) and was observed in low numbers throughout the RSA. Another butterfly species found, Pepper-and-salt Skipper, is notable as it is approximately 150 km north of the northernmost-known record in Ontario. Thirty-two species of dragonflies and damselflies were also recorded incidentally during field investigations. A full list is provided in Attachment 2. One species, Subarctic Darner, is considered a rare species in Ontario (ranked S2S3). The distribution of this species in Ontario is poorly known as it is primarily found north of road-accessible areas. One Subarctic Darner was observed in a lakeshore fen during field investigations, but the species is likely more widespread throughout the RSA.

Table 3-1: Summary of Vegetation Communities in the Mine Site

Vegetation Communities and Wetlands	Land Cover Class	Boreal Ecosites Delineated	Area in the Mine Site (ha)	Percent in the Mine Site (%)
Wetland Communities	Marsh	B142 – Mineral Meadow Marsh	3.10	0.3
	Thicket swamp	B135 – Organic Thicket Swamp	1.50	0.1
	Coniferous swamp	B127 – Organic Poor Conifer Swamp B128 – Organic Intermediate Conifer Swamp	182.60	14.7
	Bog and Fen	B136 – Sparse Treed Fen B140 – Open Moderately Rich Fen B146 – Open Shore Fen	19.70	1.6
	Deciduous Swamp	N/A	0.00	0.0
	Wetland Communities Subtotal		**206.90**	**16.7**
Terrestrial Communities	Sparse treed	N/A	0.00	0.0
	Deciduous treed (Including Mixed Tree)	B055 – Dry to Fresh, Coarse – Aspen-Birch Hardwood	242.90	19.6
	Coniferous treed	B049 – Dry to Fresh, Coarse – Jack Pine-Black Spruce Dominated B050 – Dry to Fresh, Coarse – Pine-Black Spruce Conifer B052 – Dry to Fresh, Coarse – Spruce-Fir Conifer B065 – Moist, Coarse – Pine-Black Spruce Conifer	787.10	63.5
	Terrestrial Communities Subtotal		**1,030.00**	**83.1**
	Commercial / Industrial Unclassified	U997	1.60	0.1
	Residential Unclassified	U999	1.30	0.1
	Anthropogenic Communities Subtotal		**2.90**	**0.2**
All	**Totals**		**1,239.80**	**100.0**

Note:
N/A = not applicable.

Table 3-2: Summary of Wetland Communities in the Regional Study Area

Land Cover Class	Boreal Ecosites Delineated	Area in the RSA (ha)	Percent in the RSA (%)
Marsh	B142 – Mineral Meadow Marsh B144 – Organic Meadow Marsh B148 – Mineral Shallow Marsh B150 – Open Water Marsh: Floating-leaved B152 – Open Water Marsh: Organic.	4,651.08	0.9
Thicket swamp	B135 – Organic Thicket Swamp	6,688.51	1.3
Coniferous swamp	B127 – Organic Poor Conifer Swamp B128 – Organic Intermediate Conifer Swamp B129 – Organic Rich Conifer Swamp B222 – Mineral Poor Conifer Swamp B223 – Mineral Intermediate Conifer Swamp B224 – Mineral Rich Conifer Swamp	124,055.15	23.9
Bog and Fen	B126 – Low Treed Bog B136 – Sparse Treed Fen B137 – Sparse Treed Bog B138 – Open Bog B139 – Poor Fen B140 – Open Moderately Rich Fen B141 – Open Extremely Rich Fen B146 – Open Shore Fen B147 – Shrub Shore Fen	42,627.18	8.2
Deciduous Swamp	B130 – Intolerant Hardwood Swamp B133 – Hardwood Swamp	65.78	<0.1
Total		**178,087.71**	**34.3**

Note:
Numbers may not add to the totals shown due to rounding.

Table 3-3: Summary of Terrestrial Communities in Regional Study Area

Land Cover Class	Boreal Ecosites Delineated	Area in the RSA (ha)	Percent in the RSA (%)
Sparse treed	B011 – Very shallow, dry to fresh – Red Pine-White Pine Conifer B012 – Very Shallow, Dry to Fresh – Pine-Black Spruce Conifer B024 – Very Shallow, Moist: Pine - Black Spruce Conifer B034 – Dry Sandy, Jack Pine-Black Spruce Dominated B035 – Dry, Sandy: Pine - Black Spruce Conifer B037 – Dry, Sandy: Spruce - Fir Conifer B040 – Dry, Sandy: Aspen - Birch Hardwood	11,135.20	2.1
Deciduous treed (Including Mixed Tree)	B054 – Dry to Fresh, Coarse: Red Pine - White Pine Mixedwood B055 – Dry to Fresh, Coarse – Aspen-Birch Hardwood B070 – Moist, Coarse: Aspen - Birch Hardwood B088 – Fresh, Clayey: Aspen - Birch Hardwood B104 – Fresh, Silty to Fine Loamy – Aspen-Birch Hardwood B119 – Moist, Fine: Aspen - Birch Hardwood	12,047.12	2.3
Coniferous treed	B114 – Moist, Fine: Pine - Black Spruce Conifer B116 – Moist, Fine: Spruce - Fir Conifer B048 – Dry to Fresh, Coarse: Red Pine - White Pine Conifer B049 – Dry to Fresh, Coarse – Jack Pine-Black Spruce Dominated B050 – Dry to Fresh, Coarse – Pine-Black Spruce Conifer B052 – Dry to Fresh, Coarse – Spruce-Fir Conifer B053 – Dry to Fresh, Coarse: Conifer B064 – Moist, Coarse: Red Pine - White Pine Conifer B065 – Moist, Coarse – Pine-Black Spruce Conifer B067 – Moist, Coarse – Spruce-Fir Conifer B068 – Moist, Coarse: Conifer B082 – Fresh, Clayey: Jack Pine - Black Spruce Dominated B083 – Fresh, Clayey: Pine - Black Spruce Conifer B085 - Fresh, Clayey: Spruce - Fir Conifer B098 – Fresh, Silty to Fine Loamy – Black Spruce-Jack Pine B099 – Fresh, Silty to Fine Loamy: Pine - Black Spruce Conifer B101 – Fresh, Silty to Fine Loamy: Spruce - Fir Conifer	316,491.69	60.9
Bedrock	B158 – Cliff B161 – Bedrock Shoreline B162 – Open Bedrock Shoreline B164 – Rock Barren B165 – Open Rock Barren	569.84	0.1
Total		**340,243.84**	**65.5**

Note:
Numbers may not add to the totals shown due to rounding.

Table 3-4: Summary of Anthropogenic Communities in Regional Study Area

Land Cover Class	Area in the LSA (ha)	Area in the RSA (ha)	Percent in the RSA (%)
Sand / gravel / mine tailings	4.91	647.16	0.1
Commercial / Industrial Unclassified	1.62	80.13	<0.1
Utilities Unclassified	12.92	285.55	0.1
Residential Unclassified	2.68	128.92	<0.1
Total	**22.14**	**1,141.75**	**0.2**

Note:
Numbers may not add to the totals shown due to rounding.

Table 3-5: Winter Aerial Survey Population Metrics for Caribou

	2021	2022	2023	2024
Survey Dates	February 27 to March 5	February 24 to March 5	January 26 to February 6	February 17 to 25
Survey area (km^2)	6,681	12,253	16,276	17,425
Bulls	22	40	85	66
Cows	60	74	169	183
Calves	10	21	34	54
Unclassified	0	26	76	10
Total Observed	**92**	**161**	**364**	**313**
Bulls/100 Cows	36.7	54.1	50.3	36.1
Calves/100 Cows	16.7	28.4	20.1	29.5
Calves/100 Adults	12.2	18.4	13.4	21.7
% Calves	10.9	15.6	11.8	17.8
Estimated groups not observed	104	159	66	88
MAC (minimum animal count)	202	320	430	401
Groups observed	10	26	40	50
Group size ±95%CL	9.2 ±2.10	6.2 ±1.24	8.6 ±1.63	6.3 ±1.24
Probable groups (not observed)	16	29	10	4
Group size ±95%CL	6.5 ±1.27	5.5 ±0.69	6.6 ±0.98	9.2 ±3.52
Pooled groups	26	55	50	54
Group size ±95%CL	7.5 ±1.21	5.8 ±0.69	8.6 ±1.34	7.4 ±1.15
Estimated population density (Caribou/km^2) in the RSA	0.0293	0.0261	0.0264	0.0246

Note:
CL = 95% confidence limit.

Table 3-6: Winter Aerial Moose Population Summary

	Observed Moose					Sign
Survey	**Bulls**	**Cows**	**Calves**	**Unclassified**	**Total**	
WSP 2021[(1)]	3	16	4	9	32	414
WSP 2022	1	3	1	41	46	1027
WSP 2023	1	6	2	27	36	295
WSP 2024	4	5	3	13	25	546

Note:
(1) Surveys as reported in the Technical Memo – Summary of Winter Aerial Wildlife Survey Results April 26, 2021 (Wood).

Table 3-7: Run Pole Stations and Wolverine Detection across Collection Events

Station ID	Collection 1 (March)	Collection 2 (April)
SPOLE WOL01	March 23, 2023	April 18, 2023
SPOLE WOL02	March 23,2023	April 18, 2023
SPOLE WOL05	March 24, 2023	April 19, 2023
SPOLE WOL06	March 24, 2023	April 19, 2023
SPOLE WOL08	March 24,2 023	April 19, 2023
SPOLE WOL10	March 23, 2023	April 18, 2023
SPOLE WOL13	March 23, 2023	April 18, 2023
SPOLE WOL14	March 23, 2023	April 18, 2023
SPOLE WOL19	March 24, 2023	April 19, 2023
SPOLE WOL20	March 24,2023	April 19,2023
SPOLE WOL21	March 24, 2023	April 19, 2023
SPOLE WOL25	March 25, 2023	April 19, 2023

Table 3-8: Potential Wolverine Suitable Habitat Area Affected within RSA

	Total Study Area (km^2)	Moderate Quality Habitat Area (km^2)	High Quality Habitat Area (km^2)	Quality Habitat[(a)] (km^2)	Suitable Habitat as % of Total Study Areas
RSA	17,195.00	1,517.75	9,466.00	13,181.01[C]	76.66

Note:
[(a)] Quality Habitat is the sum of Moderate Quality Habitat and High Quality Habitat, except for RSA where extrapolation of combined % was used to fill in missing HSI area.
Where HSI is missing, % suitable habitat was derived from proportion of moderate and high habitat within area within area with sufficient data. Suitable habitat (moderate and high) was represented at 76.66% of HSI area and is extrapolated proportionally to the missing value areas. Therefore, 10,983.75 km^2 (model calculated area) + 0.7666*2,866.24 km^2 (missing area) = 13,181.01 km^2.

Table 3-9: Mean Cavity Tree Density and the Number of Plots Surveyed within Each Ecosite

Ecosite	Mean Snag Density (trees / ha)	Number of Plots Sampled
B024	60	2
B034	70	2
B049	67	27
B050	42	51
B052	34	7
B055	37	26
B065	140	1
B070	57	7
B088	20	4
B104	63	7
B119	93	6
B127	20	1
B128	43	20
B140	20	2

Table 3-10: 2022 Autonomous Recording Unit Anuran Results

	ARU31			ARU32			ARU33			ARU34 (MB1_ARU34)			ARU35			ARU36			ARU37			ARU38			ARU39			ARU40		
Common Name	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**
American Toad		0	0	0	0	0	0	0		0	3	0	0	0	0	0			0	0	0	0	0		0	0		0	0	0
Spring Peeper		3	0	1	3	0	0	2		1	3	0	1	3	0	1			0	3	0	1	2		3	3		0	3	0
Wood Frog		0	0	0	0	0	0	0		1	0	0	0	0	0	1			0	0	0	1	0		0	0		0	1	0
	ARU41			**ARU42**			**ARU43**			**ARU44**			**ARU45**			**ARU46**			**ARU47**			**ARU48**			**ARU49**			**ARU50**		
	1	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**
American Toad	0	0		0	0		0	0		0	0		0	0	0	0	3		0	0		0			0	1	0	0	0	0
Spring Peeper	0	3		0	3		3	3		1	3		0	3	0	0	3		1	3		3			3	3	0	1	3	0
Wood Frog	0	0		1	0		0	0		0	0		0	0	0	0	0		0	0		0			1	0	0	0	0	0
	ARU51			**ARU52**			**ARU53**			**ARU54**			**ARU55**			**ARU56**			**ARU57**			**ARU58 (MB2_ARU58)**			**ARU59**			**ARU60**		
	1	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**
American Toad	0	0	0	0	0	0	0	0		0	0	0	0	1		0	0		0	0		0	0	0	0	0		0	0	0
Spring Peeper	0	3	1	1	3	0	0	3		1	3	0	0	3		0	3		0	3		0	3	0	1	3		2	3	0
Wood Frog	0	0	0	1	0	0	1	3		1	0	0	0	1		0	0		1	0		0	0	0	1	0		0	0	0

Table 3-11: Historical Trapping Records (1993 to 2017)

Species	Count
Family-Canidae	
Coyote	22
Grey Wolf	144
Red Fox	418
Family-Felidae	
Canada Lynx	287
Family-Mustelidae	
American Marten	29,795
American Mink	1,597
Fisher	219
North American River Otter	1,425
Weasel sp.	2,677
Wolverine	13
Family-Procyonidae	
Northern Raccoon	14
Family-Ursidae	
American Black Bear	5
Order-Rodentia	
Beaver	9,322
Muskrat	981
Red Squirrel	2,536

Source:
Historical Trapping Records for the Springpole Gold.
Note:
Project as reported by NWES (2020).

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5715000 5710000 5705000 5700000

Mink Lake
Little Shabumeni Lake
Penson Lake
Birch Lake
Keigat Lake

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LEGEND

- Proposed Mine Feature
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Vegetation Communites

- Vegetation Community Boundary (labelled with boreal ecosite code)

Vegetation Community General Types

- Bedrock
- Coniferous Treed
- Deciduous (including Mixed) Treed
- Sparse Treed
- Bog and Fen
- Coniferous Swamp
- Deciduous Swamp
- Marsh
- Thicket Swamp

0 2.5 5 10 15 20 Kilometres

KEY MAP

a b c d e f g h i j k l m n

20 Km

NOTES:
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Datum: NAD83
Projection: UTM Zone 15N

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104	**FIGURE: 3-1 a**
SCALE: 1:100,150	DATE: October 2024

565000 570000 575000 580000 585000 590000 595000 600000 605000

5715000 5710000 5705000 5700000

Jackpine Lake

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0 2.5 5 10 15 20 Kilometres

KEY MAP

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Datum: NAD83
Projection: UTM Zone 15N

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104 | **FIGURE: 3-1 b**

SCALE: 1:100,150 | DATE: October 2024

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5695000 5690000 5685000 5680000 5675000

Shabumeni Lake
Dole Lake
Springpole Lake
Springpole Lake
Cromarty Lake
Satterly Lake
Superstition Lake
Graydarl Lake
Seagrave Lake
Skingle Lake
Okanse River
Bertha Lake
Springpole Lake

Birch Lake
L-18
L-17
L-1
L-2
L-19
L-3
L-4
L-5
L-6
L-16
1 Km

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LEGEND

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a b c d e f g h i j k l m n

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Projection: UTM Zone 15N

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104 | **FIGURE: 3-1 c**

SCALE: 1:100,150 | DATE: October 2024

565000 570000 575000 580000 585000 590000 595000 600000 605000

5695000 5690000 5685000 5680000 5675000

Durkin Lake

Birch River

Gull Lake

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a b c d e f g h i j k l m n

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Projection: UTM Zone 15N

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104

FIGURE: 3-1 d

SCALE: 1:100,150

DATE: October 2024

610000 615000 620000 625000 630000 635000 640000 645000

5695000 5690000 5685000 5680000 5675000

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a b c d e f g h i j k l m n

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N^{O}: ONS2104	**FIGURE: 3-1 e**
SCALE: 1:100,150	DATE: October 2024

525000 530000 535000 540000 545000 550000 555000 560000

5670000 5665000 5660000 5655000

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a b c d e f g h i j k l m n

20 Km

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Projection: UTM Zone 15N

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104 | **FIGURE: 3-1 f**

SCALE: 1:100,150 | DATE: October 2024

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0 2.5 5 10 15 20 Kilometres

KEY MAP

a b c d e f g h i j k l m n

20 Km

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Projection: UTM Zone 15N

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N^{O}: ONS2104 | **FIGURE: 3-1 g**

SCALE: 1:100,150 | DATE: October 2024

610000 615000 620000 625000 630000 635000 640000 645000

5670000 5665000 5660000 5655000

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0 2.5 5 10 15 20 Kilometres

KEY MAP

a b c d e f g h i j k l m n

20 Km

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Projection: UTM Zone 15N

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104 | **FIGURE: 3-1 h**

SCALE: 1:100,150 | DATE: October 2024

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5650000 5645000 5640000 5635000

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KEY MAP

a b c d e f g h i j k l m n

20 Km

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Projection: UTM Zone 15N

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104	**FIGURE: 3-1 i**
SCALE: 1:100,150	DATE: October 2024

565000 570000 575000 580000 585000 590000 595000 600000 605000

5650000 5645000 5640000 5635000

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N W E S

First Mining Gold

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104	**FIGURE: 3-1 j**
SCALE: 1:100,150	DATE: October 2024

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5650000 5645000 5640000 5635000

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104 | **FIGURE: 3-1 k**

SCALE: 1:100,150 | DATE: October 2024

525000 530000 535000 540000 545000 550000 555000 560000

5630000 5625000 5620000 5615000 5610000

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0 2.5 5 10 15 20 Kilometres

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a b c d e f g h i j k l m n

20 Km

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N W E S

First Mining Gold

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104	**FIGURE: 3-1 l**
SCALE: 1:100,150	DATE: October 2024

565000 570000 575000 580000 585000 590000 595000 600000 605000

5630000 5625000 5620000 5615000 5610000

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0 2.5 5 10 15 20 Kilometres

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a b c d e f g h i j k l m n

20 Km

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First Mining Gold

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SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104	**FIGURE: 3-1 m**
SCALE: 1:100,150	DATE: October 2024

610000 615000 620000 625000 630000 635000 640000 645000

5630000 5625000 5620000 5615000 5610000

X:\CA\CA\OAK300-OAK\MIS-FS1-Project\P2021\Projects\ONS2104_FMG_Springpole_EIS\11_GIS\TerrestrialBaseline_2022\MXD\Vege_Community_Series_MapA\BDEFGHIJKLMN_4.mxd

LEGEND

- Proposed Mine Feature
- Local Study Area for Vegetation Communities and Wetlands
- Regional Study Area for Vegetation Communities and Wetlands
- First Nation Reserve
- Existing Road
- Wenasaga Forestry Road
- Anthropogenic and Fire Habitat Disturbance Areas (500 m buffer from anthropogenic sources)
- Existing Transmission Line

Vegetation Communites

- Vegetation Community Boundary (labelled with boreal ecosite code)

Vegetation Community General Types

- Bedrock
- Coniferous Treed
- Deciduous (including Mixed) Treed
- Sparse Treed
- Bog and Fen
- Coniferous Swamp
- Deciduous Swamp
- Marsh
- Thicket Swamp

0 2.5 5 10 15 20 Kilometres

KEY MAP

a b c d e f g h i j k l m n

20 Km

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.
- Vegetation communities extracted from FRI data (provided by Domtar 2023, and MNRF 2023)

Datum: NAD83
Projection: UTM Zone 15N

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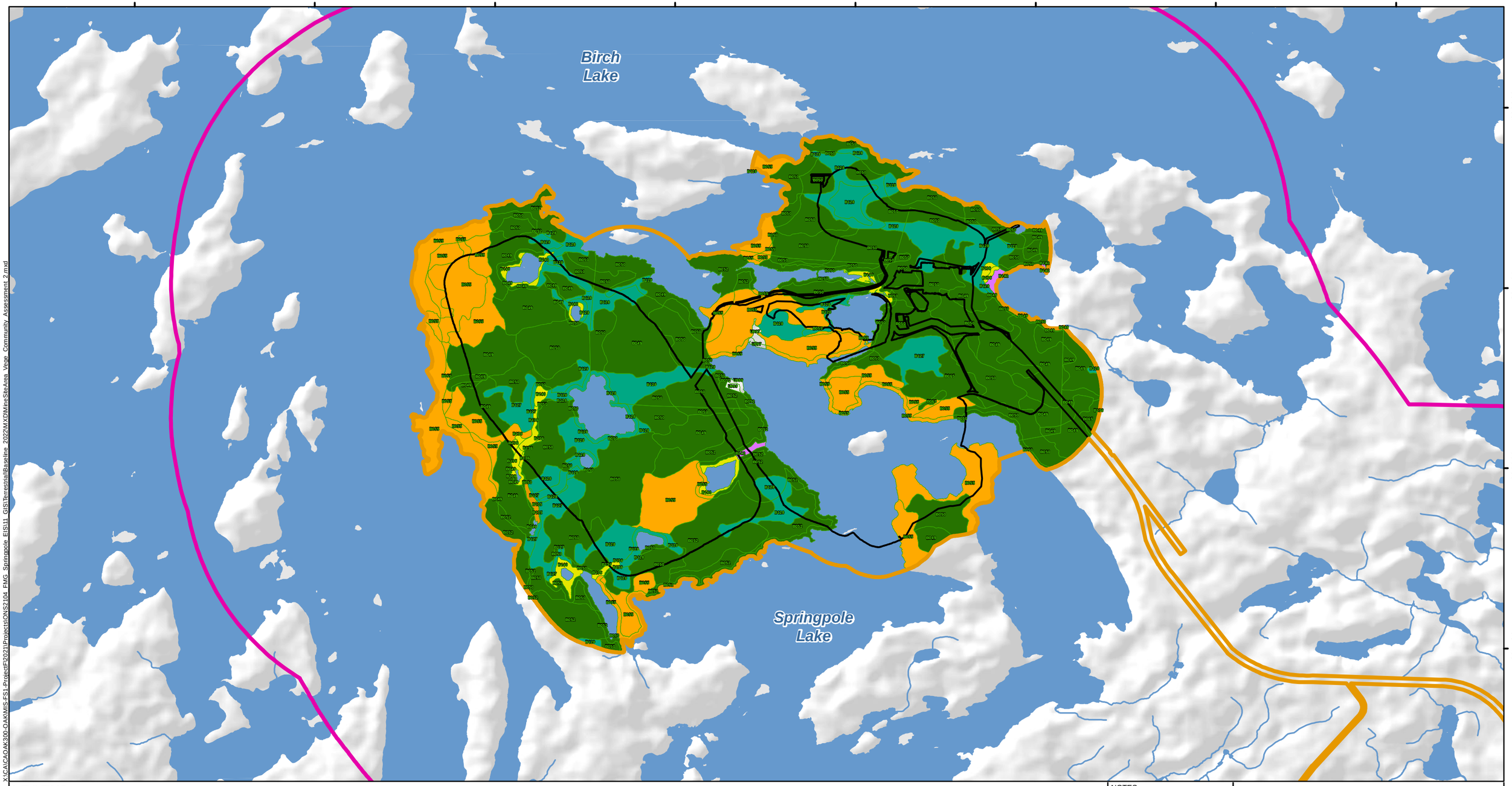
SPRINGPOLE GOLD PROJECT

Vegetation Communities

PROJECT N°: ONS2104	**FIGURE: 3-1 n**
SCALE: 1:100,150	DATE: October 2024



X:\CA\CAOAK300-OAK\MIS-FS1-Project\F\2021\Projects\ONS2104_FMG_Springpole_EIS\11_GIS\Terrestrial\Baseline_2022\MXD\MineSiteArea_Vege_Community_Assessment_2.mxd

LEGEND

- Local Study Area for Vegetation Communities and Wetlands
- Project Development Area (PDA) (mine site area only)

Vegetation Communites

- Vegetation Community Boundary (labelled with boreal ecosite code)

Vegetation Community General Types

- Coniferous Treed
- Deciduous (including Mixed) Treed
- Bog and Fen
- Coniferous Swamp
- Marsh
- Thicket Swamp

Summary of Vegetation Communites in Mine Site PDA

Ecosite Code	Area (ha)	Ecosite Code	Area (ha)
B049	213.4	B135	1.5
B050	418.2	B136	7.7
B052	134.9	B140	9.6
B055	242.9	B142	3.1
B065	20.6	B146	2.4
B127	34.4	U997	1.6
B128	148.2	U999	1.3

NOTES:
- Topographic information extracted from LIO, NDMNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.
- Vegetation communities extracted from FRI data (provided by Domtar 2023, and MNRF 2023)

Datum: NAD83
Projection: UTM Zone 15N

0 2.5 5 Kilometres

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SPRINGPOLE GOLD PROJECT

Mine Site Area Vegetation Community Assessment

PROJECT N°: ONS2104

FIGURE: 3-2

SCALE: 1:30,000

DATE: October 2024

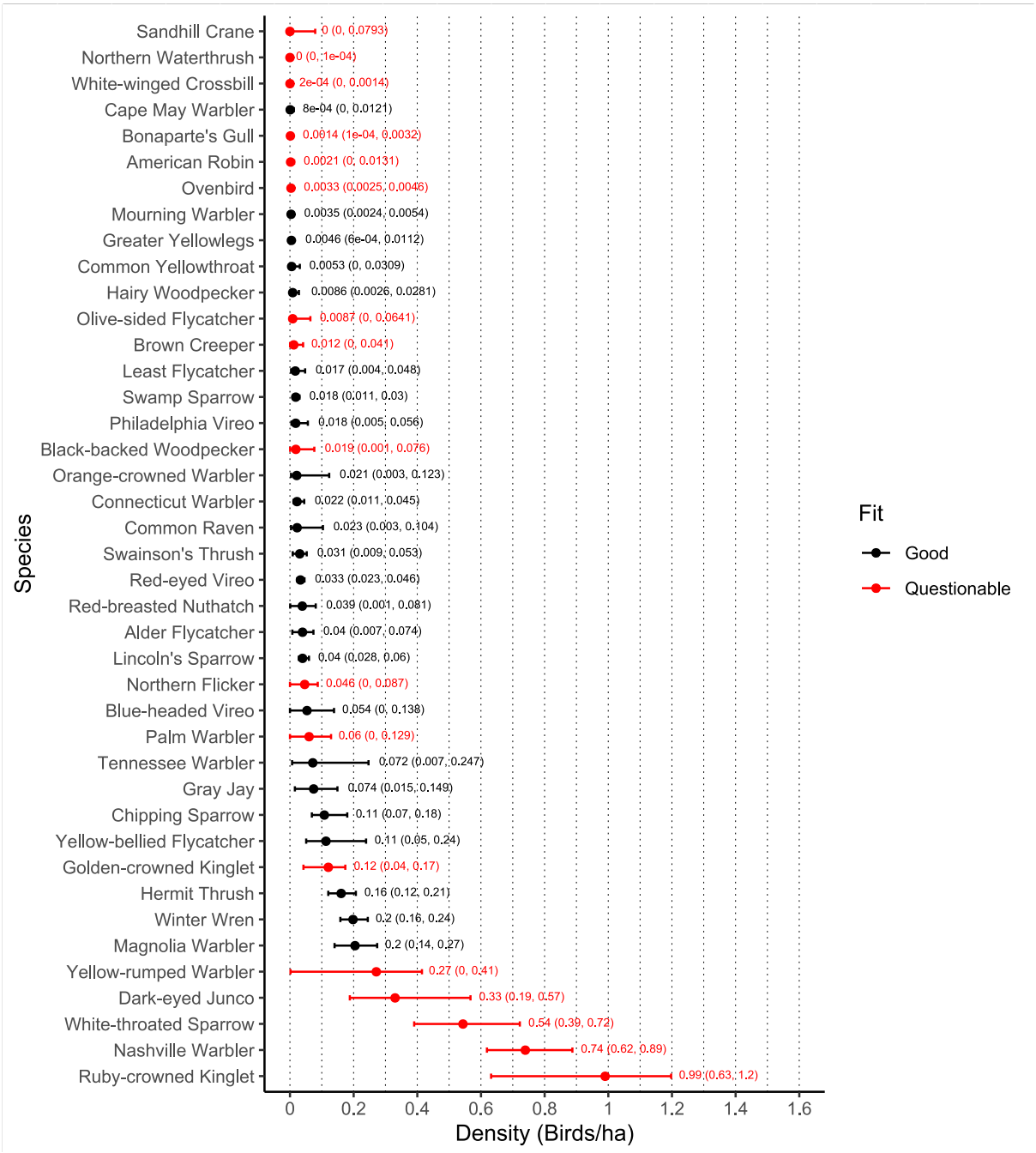


Figure 3–3: Predicted Average Density (±95% confidence intervals) per Species from Point Count Surveys

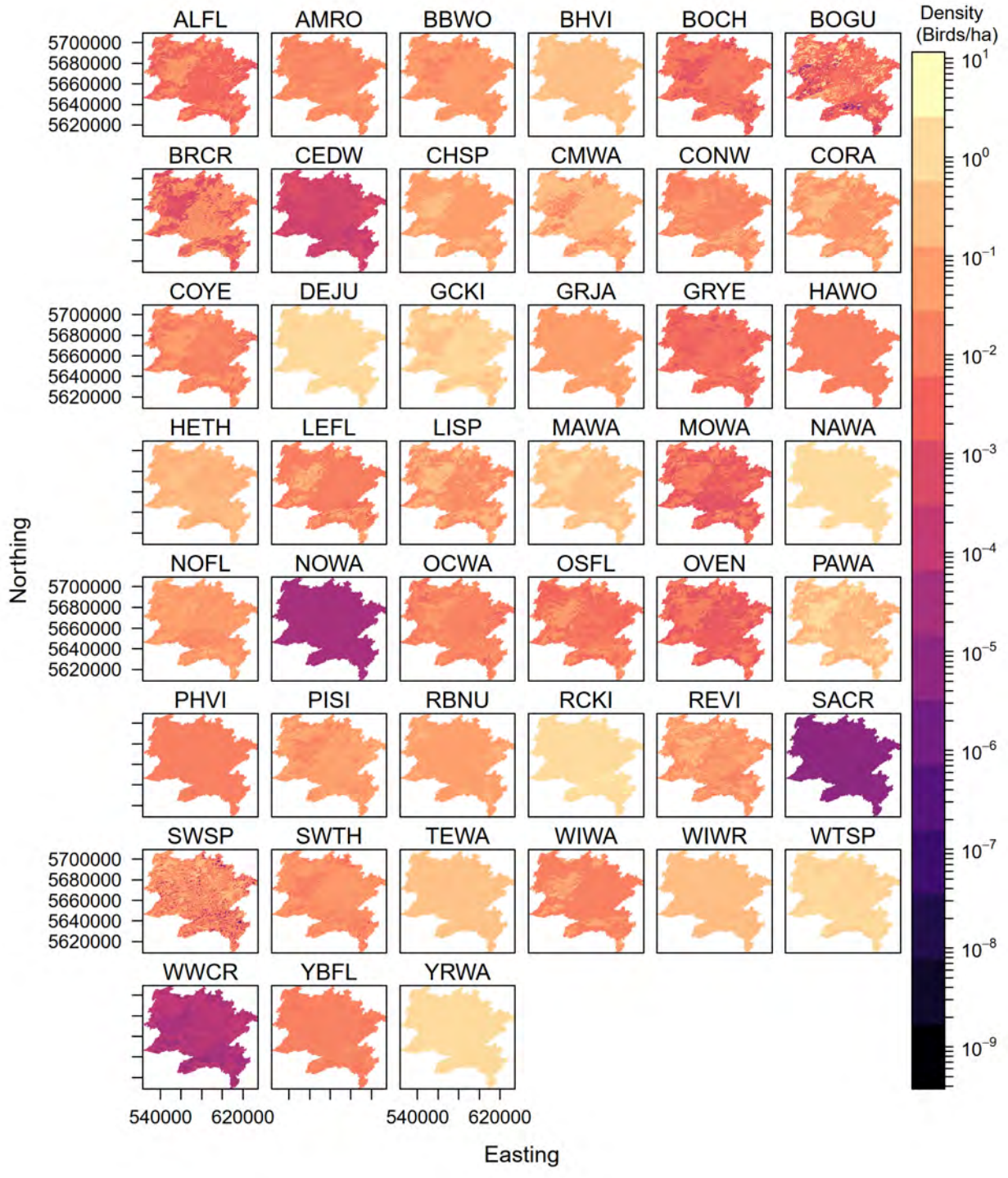


Figure 3–4: Predicted Density Surfaces Across the RSA Modelled from Point Count Surveys

Note:
Surfaces represent the density distribution of each bird species for which density could be modelled from point count data averaged across treatment and year. Surfaces are calculated based on average levels of the temporal and weather covariates. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

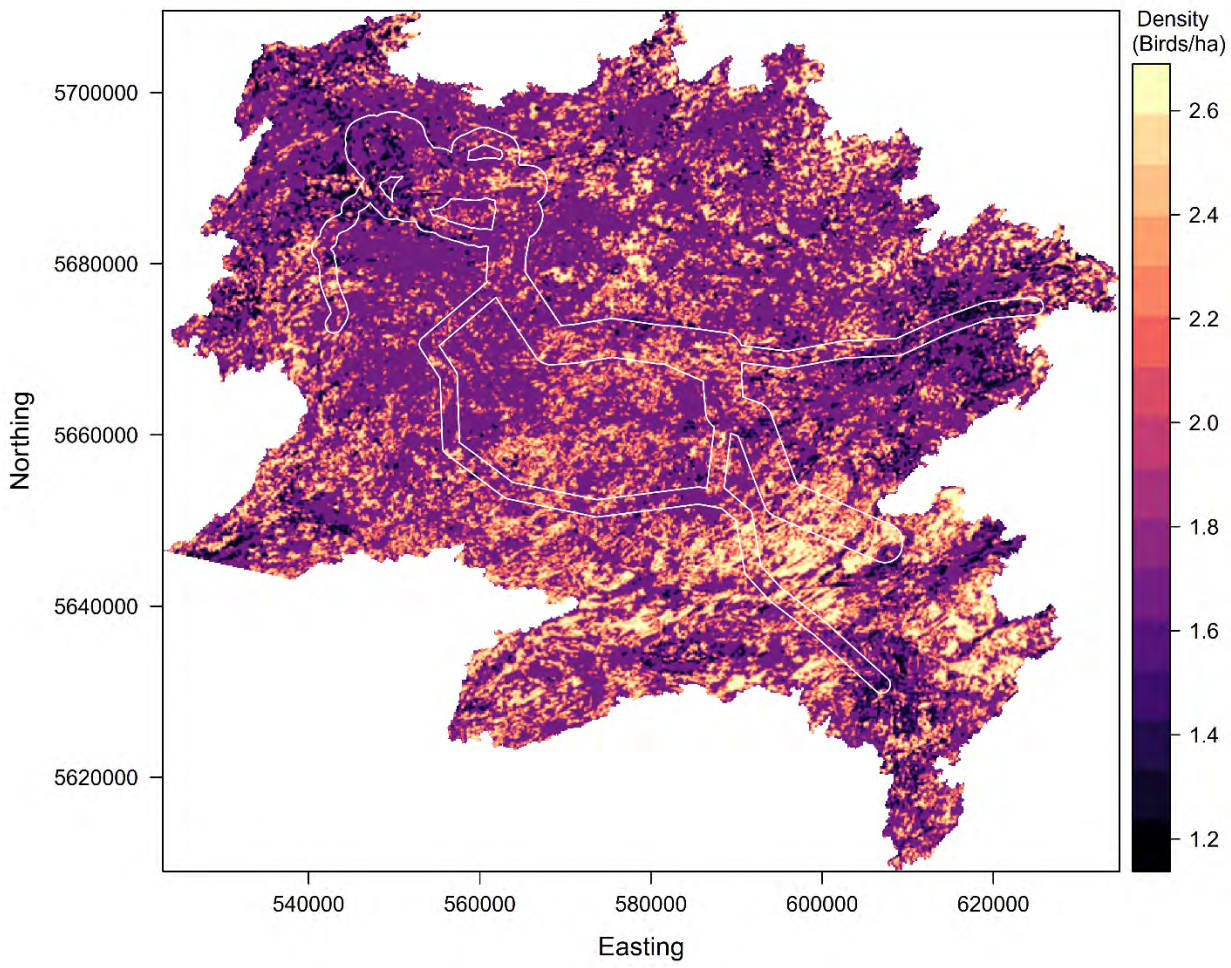


Figure 3–5: Predicted Density Surface for the Most Abundant Bird Species (Ruby-crowned Kinglet) Across the RSA Modelled from Point Count Surveys

Note:
See Attachment 7 for density surface figures of the seven proxy species included in the density modelling: Forest–Dark-eyed Junco, Ovenbird, Red-eyed Vireo; Wetland–Common Yellowthroat, Palm Warbler; Shorebird–Greater Yellowlegs; and SAR–Olive-sided Flycatcher. Surfaces are calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

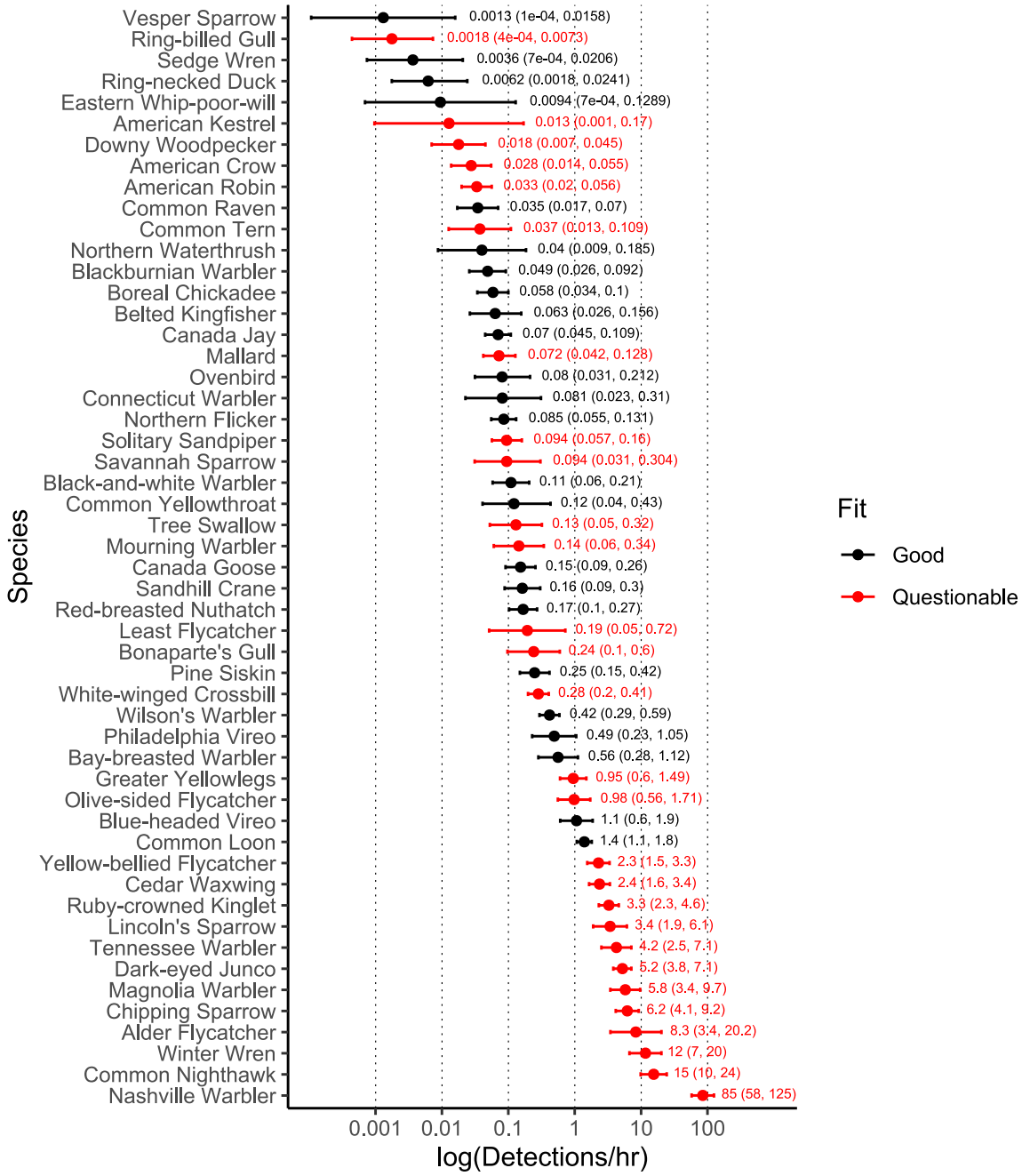


Figure 3–6: Predicted Average Acoustic Activity (±95% confidence intervals) per Species from Autonomous Recording Unit Surveys

Note:
Average acoustic activity (detections per hour) during ARU recording periods for each species predicted by the best-fitting models across both years and treatments at average levels of the predictor covariates. Confidence intervals were estimated from standard errors of the predicted values. Model fit is indicated by colour.

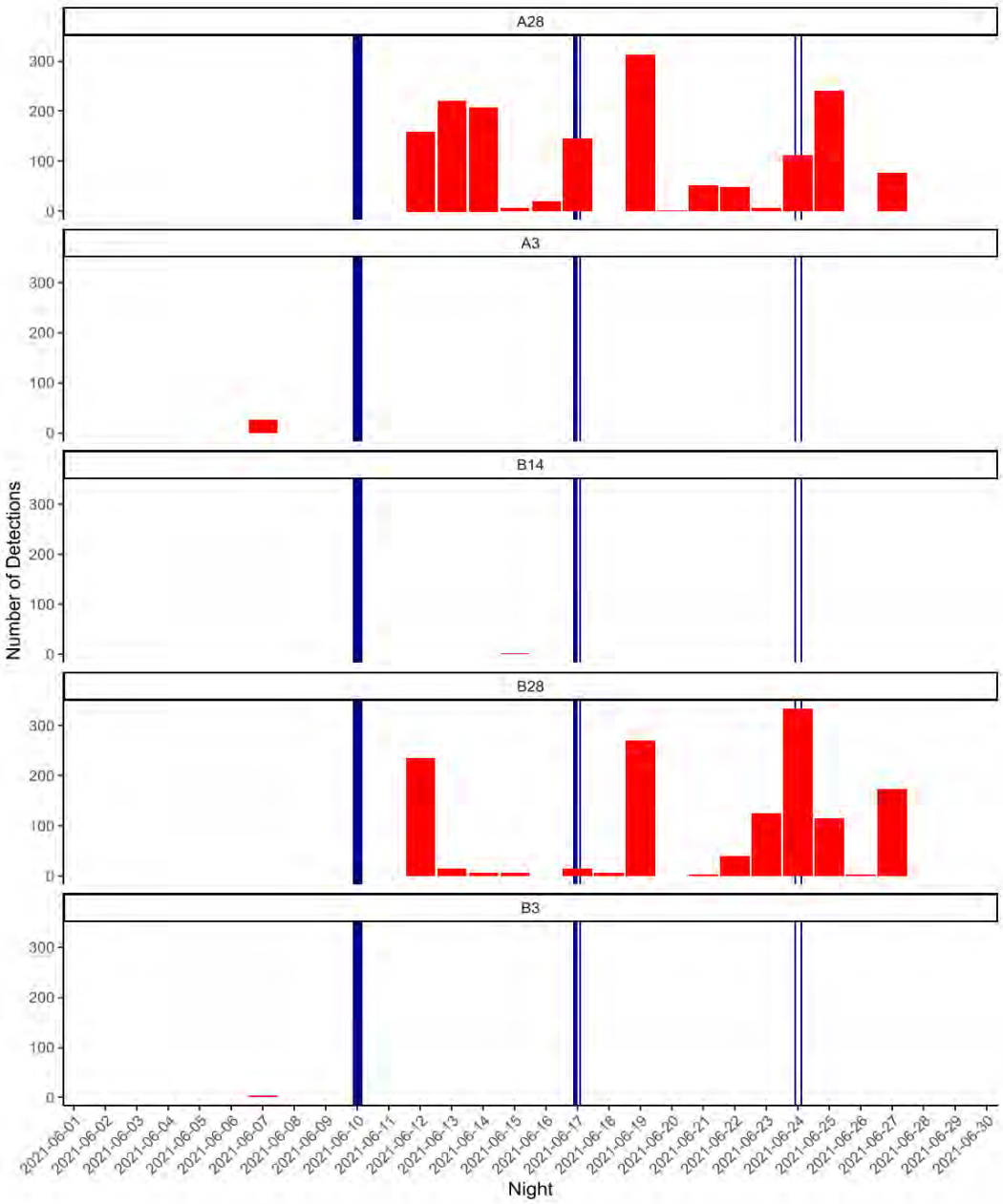


Figure 3–7a: 2021 Eastern Whip-poor-will Autonomous Recording Unit Results and Moon Phases

Note:
Double blue line represents the full moon, and the solid blue line represents the new moon

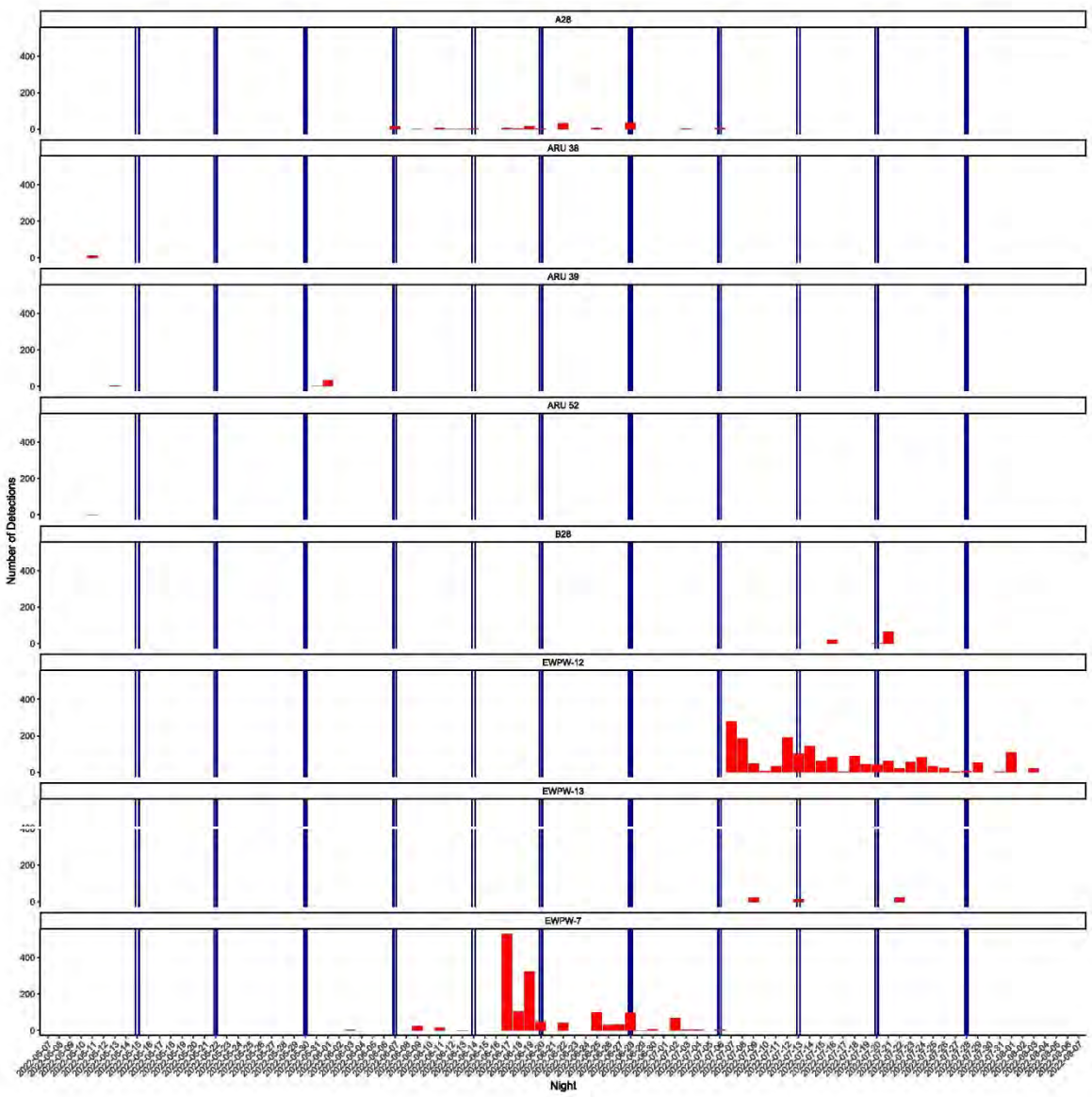
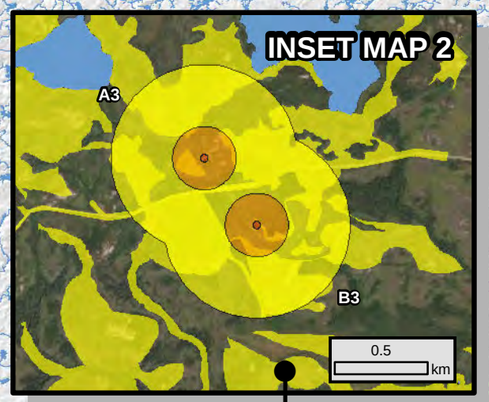


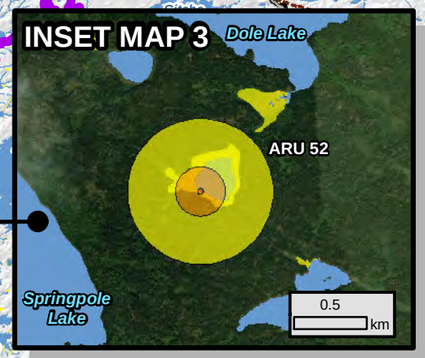
Figure 3–7b: 2022 Eastern Whip-poor-will Autonomous Recording Unit Results and Moon Phases

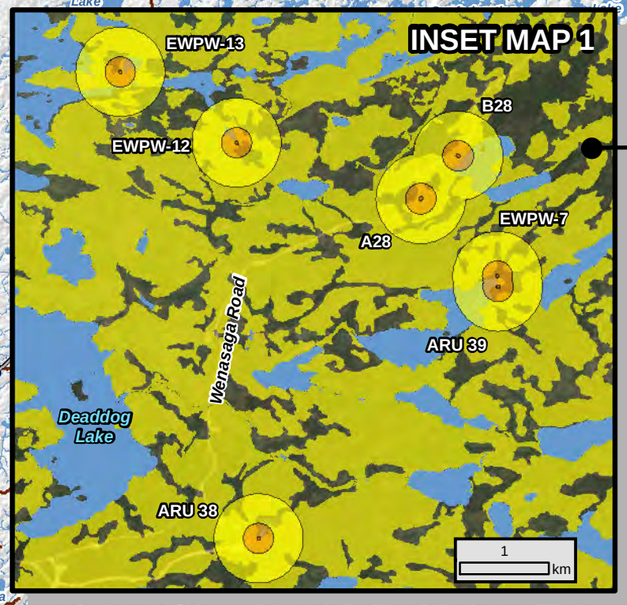
Note:
Double blue line represents the full moon, and the solid blue line represents the new moon

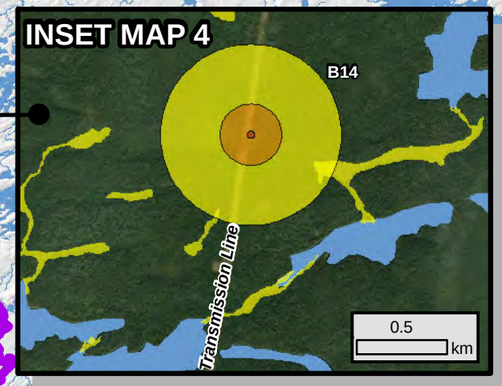
500000 520000 540000 560000 580000 600000 620000 640000 660000

5700000 5680000 5660000 5640000 5620000









Carillon Lake
Kapikik Lake
Birch Lake
Bertha Lake
Gull Lake
Kezik Lake
Dobie Lake
Wright Lake
Obaskaka Lake
Fry Lake
Narrow Lake
Woman Lake
Okanse Lake
Joyce Lake
Perrigo Lake
Sesikinaga Lake
Jeanette Lake
SLATE FALLS NATION RESERVE
Bamaji Lake
Blackstone Lake
Otatakan Lake
Churchill Lake
St. Raphael Lake
Miniss Lake
De Less Lake

LEGEND

- Proposed Mine Feature
- Species at Risk Bird Local Study Area
- Species at Risk Bird Regional Study Area
- Potential Eastern Whip-poor-will Habitat

Estimated Eastern whip-poor-will Habitat
- Category 1
- Category 2
- Category 3

- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.
- 230 kV transmission line provided by First Mining Gold, April 2024.

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SPRINGPOLE GOLD PROJECT

Eastern Whip-poor-will Category Habitat around ARUs

Datum: NAD83
Projection: UTM Zone 15N

N W E S

PROJECT N°: ONS2104 | **FIGURE: 3-8a**

SCALE: 1:420,000 | DATE: October 2024

0 10 20 40 60 80 100 Kilometres

X:\CA\CAOAX300-OAKMIS-FS1-Project\P2021Projects\ONS2104_FMG_Springpole_EIS\11_GIS\Terrestrial\Baseline_2022\MXD\EWPW_CategoryHabitat_around_ARUs_3.mxd

480000 500000 520000 540000 560000 580000 600000 620000 640000 660000 680000

5700000 5680000 5660000 5640000 5620000

Carillon Lake
Kapikik Lake
Gitche Lake
Dobie Lake
Zionz Lake
Birch Lake
Fawcett Lake
Springpole Lake
Gull Lake
Wright Lake
Shabumeni Lake
Seagrave Lake
Kezik Lake
Kasagin Lak
Fry Lake
Trout Lake
Narrow Lake
Woman Lake
Okanse Lake
SLATE FALLS NATION
Joyce Lake
Perrigo Lake
Bamaji Lake
Jeanette Lake
Blackstone Lake
Confederation Lake
Lake St. Joseph
Little Trout Lake
Doran Lake
Slate Lake
Whitemud Lake
Otatakan Lake
Miniss Lake
Bruce Lake
Bluffy Lake
De Lesseps Lake
St. Raphael Lake

X:\CA\CAOAK300-OAKMIS-FS1-Project\P2021\Projects\ONS2104 FMG - Springpole EIS\11 GIS\TerrestrialBaseline_2022\MXD\WhipPoorWill_HSI_Analysis_Results_3.mxd

LEGEND

- Whip-poor-will - Moderate to High Habitat Suitability Areas
- Proposed Mine Feature
- Project Development Area
- Local Study Area for Wildlife and Wildlife Habitat
- Regional Study Area for Wildlife and Wildlife Habitat
- First Nation Reserve
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- Watercourse
- Waterbody

0 5 10 20 30 40 50 Kilometres

NOTES:
- Topographic information extracted from LIO, NDMNRF.
- Proposed site plan provided by Ausenco, drawing number 104496-GX-03000-31344-003, Rev 1. 26 June 2023 and modified by WSP July 2023.

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SPRINGPOLE GOLD PROJECT

Whip-poor-will Habitat Suitability Analysis Results Summary Map

Datum: NAD83
Projection: UTM Zone 15N

N W E S

PROJECT N°: ONS2104

FIGURE: 3-8b

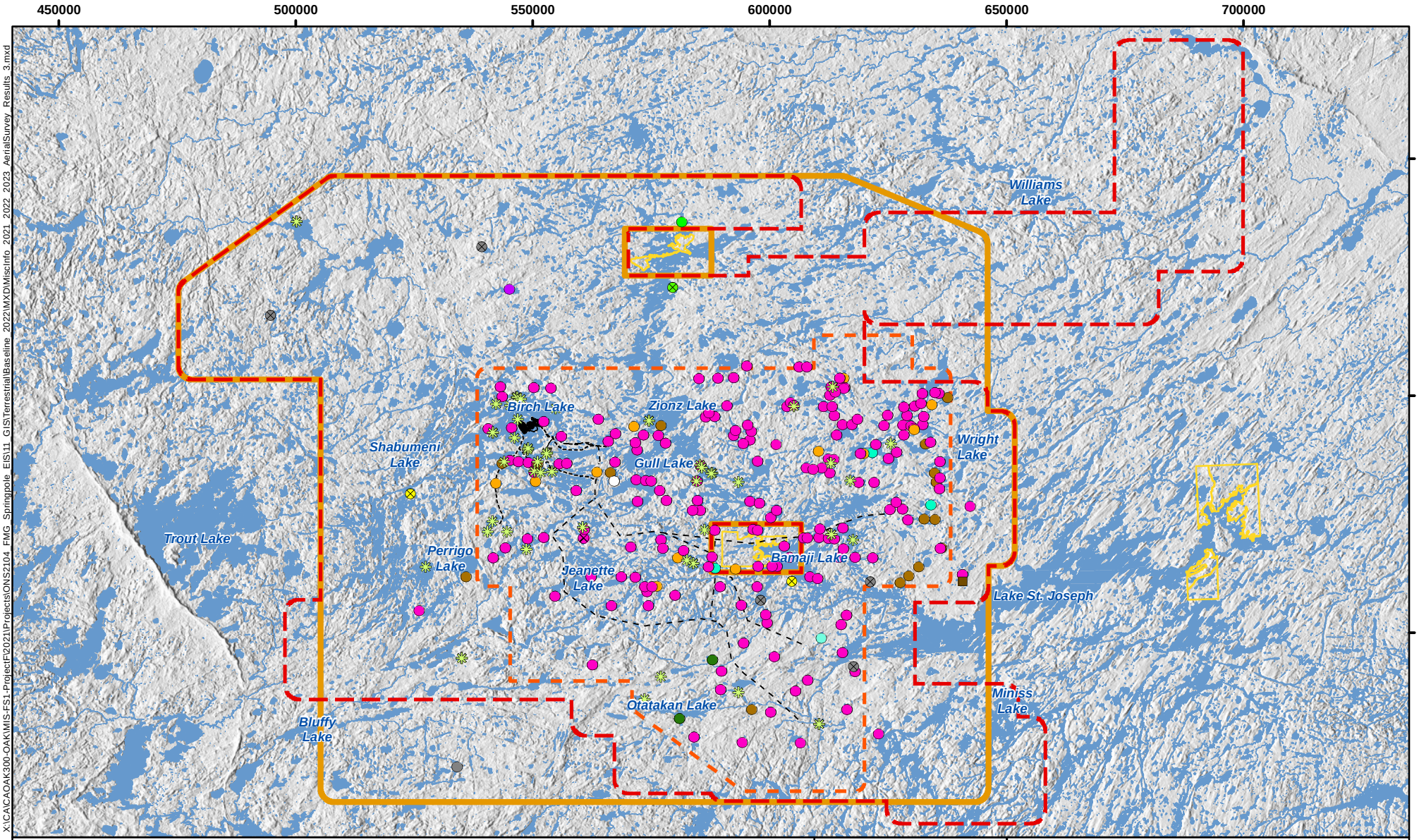
SCALE: 1:500,000

DATE: October 2024



Figure 3–9: Scaled Predicted Acoustic Activity Rate per Week of the Most Frequently Recorded Bird Species

Note:
Acoustic activity rate per week of the most frequently recorded bird species. Values are predicted average detection rate estimated by the best fitting models. Estimates were obtained for average levels of the habitat covariates (i.e. correcting for habitat variation). Values were scaled to the maximum average detection rate for the species to help highlight its relative activity across the season.



LEGEND

- Aerial Survey Study Area (2021)
- Aerial Survey Study Area (2022)
- Aerial Survey Study Area (2023)
- Proposed Mine Site, Access Road alternatives and Transmission Line alternatives
- First Nation Reserve

Miscellaneous Wildlife Observations

- Den
- Feral Dog - Observed
- Feral Dog - Tracks/Evidence
- Fisher / Marten - Tracks/Evidence
- Fox - Tracks/Evidence
- Great Gray Owl - Observed
- Lynx - Tracks/Evidence
- Northern Hawk Owl - Observed
- Unknown Mustelid - Tracks/Evidence
- Beaver - Tracks/Evidence
- Otter - Observed
- Otter - Tracks/Evidence
- Rabbit - Tracks/Evidence
- Nest

NOTES:
- Background topographic map extracted from ESRI online basemap services
- 2022 Field track and observation data used to generate relative density surfaces.
- Point data was weighted by observation count information and/or number of tracks.

0 12.5 25 50 75 100 125 150 Kilometres

Datum: NAD83
Projection: UTM Zone 15N

N W E S

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SPRINGPOLE GOLD PROJECT

Miscellaneous Wildlife Observations within the Aerial Survey Study Area (Winter 2021, 2022 and 2023 Combined)

PROJECT N°: ONS2104	**FIGURE: 3-10**
SCALE: 1:1,125,000	DATE: October 2024

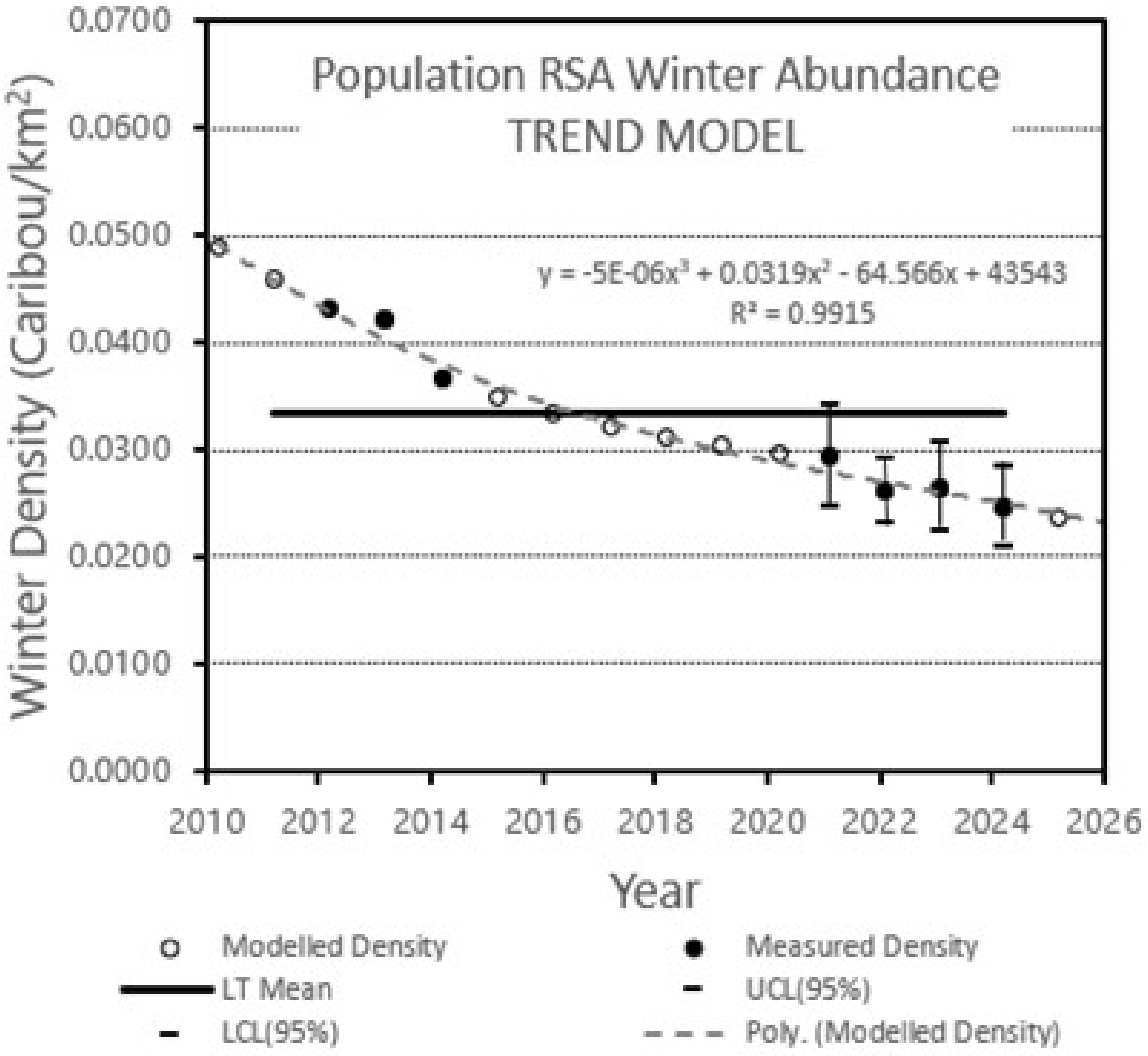

Figure 3–11: Population RSA Winter Caribou Population Trend

Caribou

Moose

Wolf

Caribou and Moose Overlap

Caribou and Wolf Overlap

Moose and Wolf Overlap

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LEGEND

- Proposed Mine Site, Access Road alternatives and Transmission Line alternatives
- Aerial Survey Study Area (2021)
- Slate Falls First Nation

Observation Summary (2021 Aerial Survey)

- Tracks Observed
- Animal Sighting (labelled with ID)

General Relative Caribou Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Caribou Density Areas

General Relative Moose Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Moose Density Areas

General Relative Wolf Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Wolf Density Areas

- Areas of Relatively High Density Overlap

0 50 100 150 200 250 Kilometres

NOTES:
- Background topographic map extracted from ESRI online basemap services
- 2021 Field track and observation data used to generate relative density surfaces.
- Point data was weighted by observation count information and/or number of tracks.

Datum: NAD83
Projection: UTM Zone 15N

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SPRINGPOLE GOLD PROJECT

Comparison of High Relative Density Areas for Caribou, Moose and Wolf Observations within the Aerial Survey Study Area (Winter 2021)

PROJECT N°: ONS2104

FIGURE: 3-12a

SCALE: 1:988,000

DATE: October 2024

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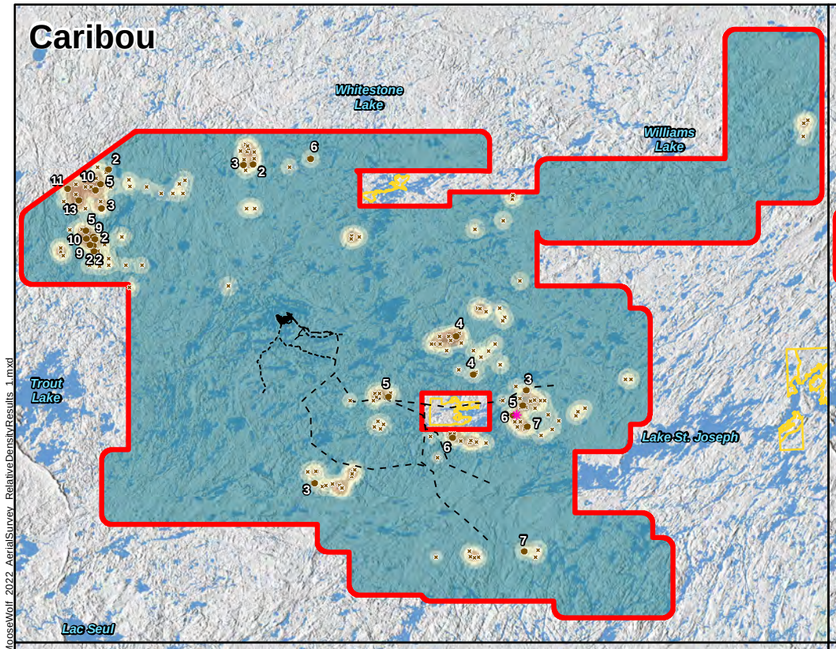
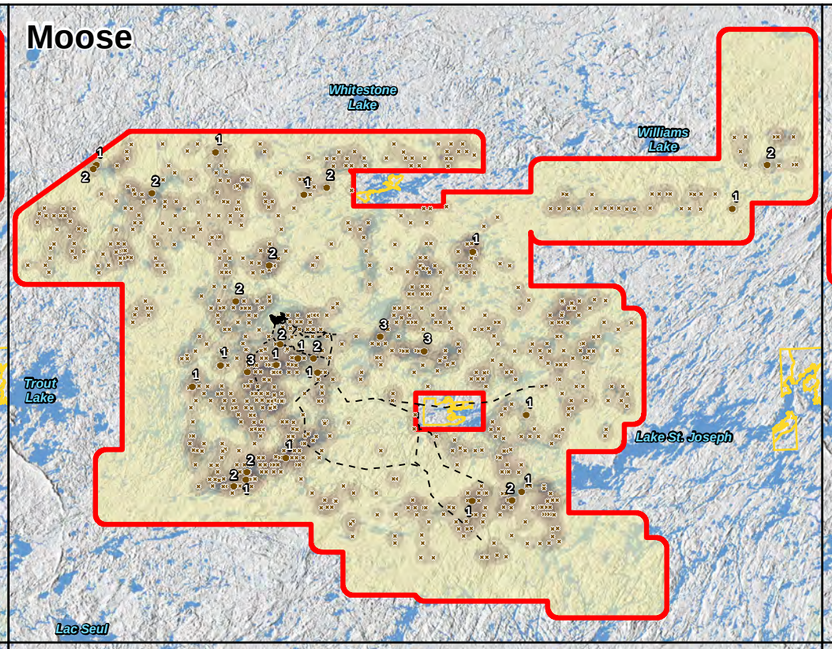
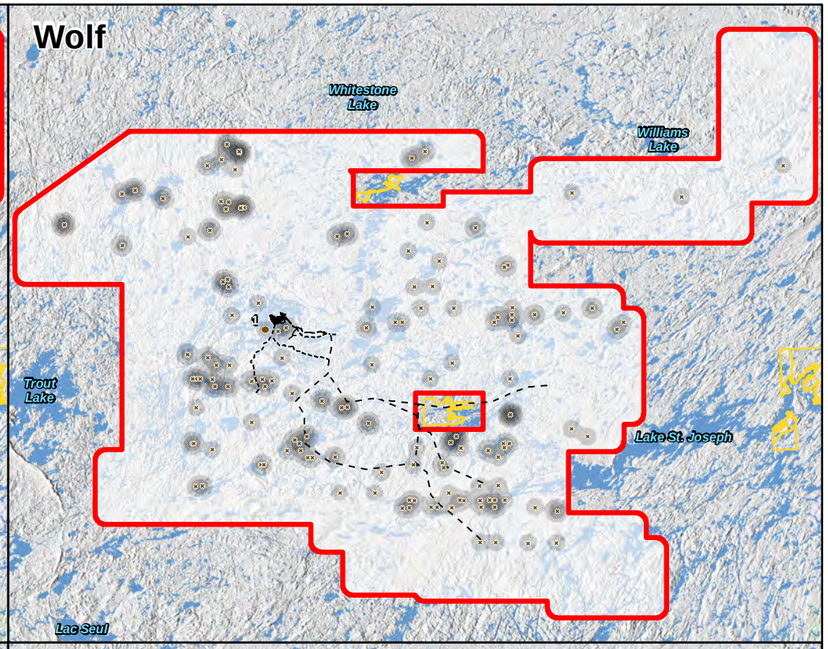
Caribou



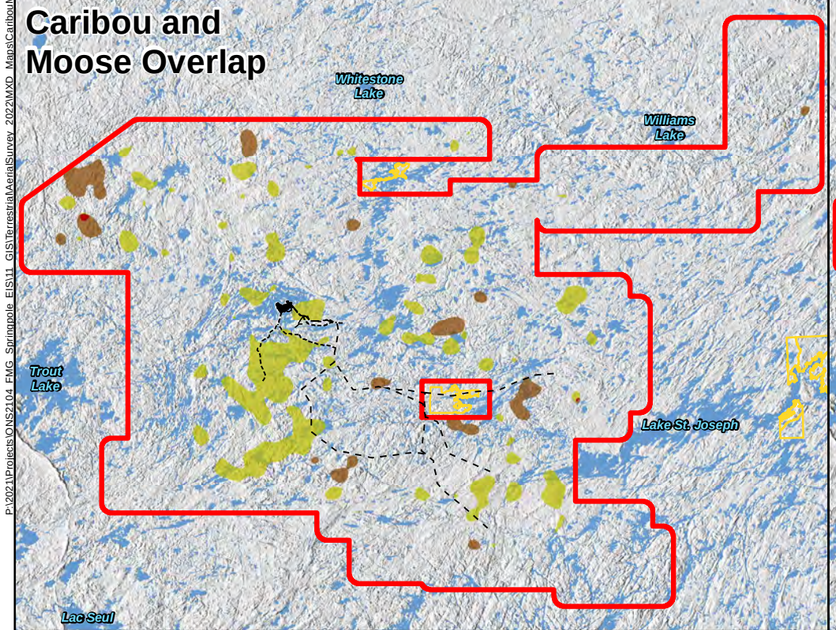
Moose



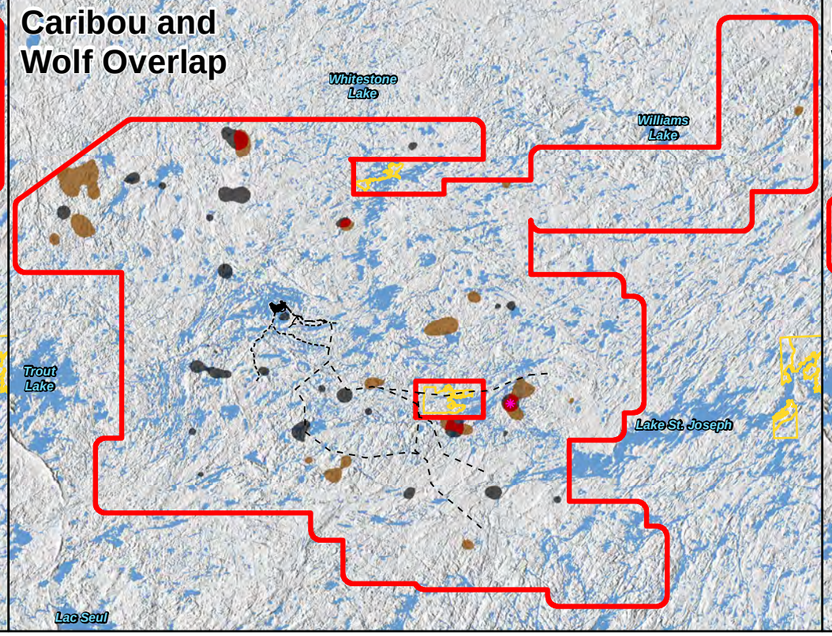
Wolf



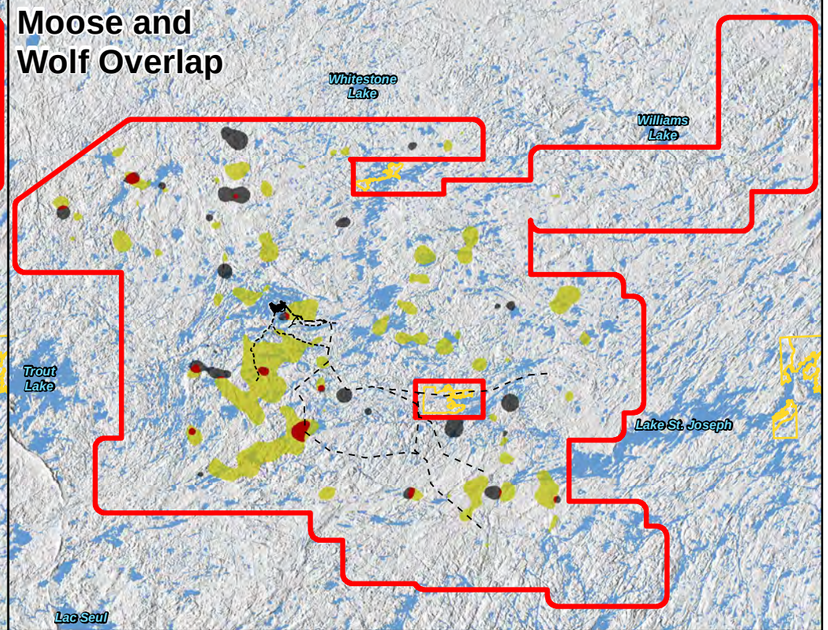
Caribou and Moose Overlap



Caribou and Wolf Overlap



Moose and Wolf Overlap



LEGEND

- Proposed Mine Site, Access Road alternatives and Transmission Line alternatives
- Aerial Survey Study Area (2022)
- First Nation Community

Observation Summary (2022 Aerial Survey)

- Tracks Observed
- Animal Sighting (labelled with # animals observed)
- Observed Caribou Kill Site

General Relative Caribou Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Caribou Density Areas

General Relative Moose Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Moose Density Areas

General Relative Wolf Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Wolf Density Areas

- Areas of Relatively High Density Overlap

0 80 160 240 320 400 Kilometres

NOTES:
- Background topographic map extracted from ESRI online basemap services
- 2022 Field track and observation data used to generate relative density surfaces.
- Point data was weighted by observation count information and/or number of tracks.

Datum: NAD83
Projection: UTM Zone 15N

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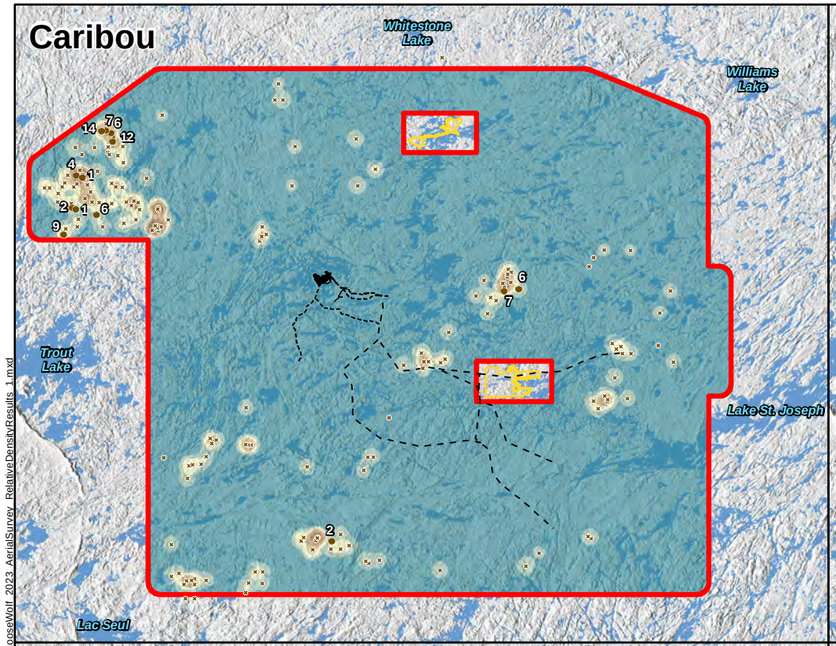
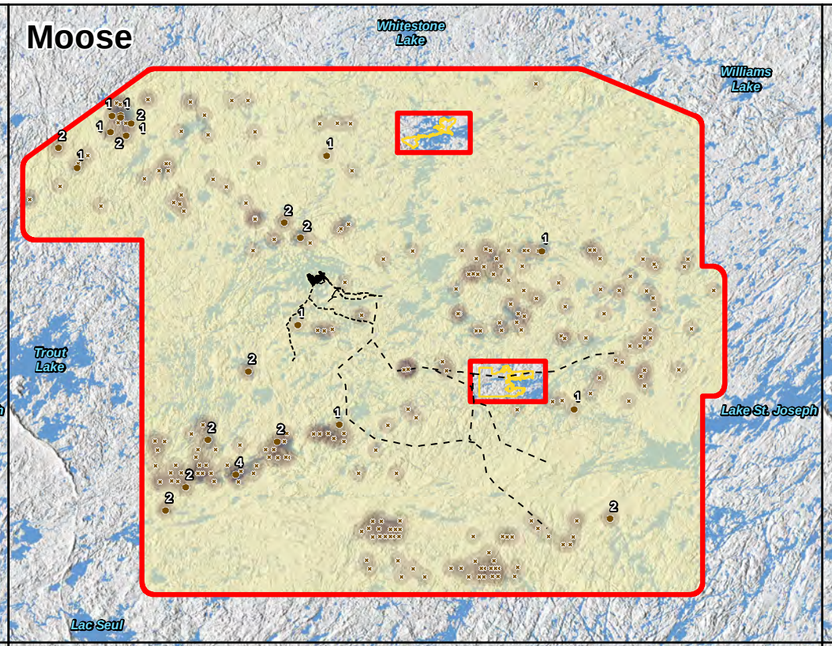
SPRINGPOLE GOLD PROJECT

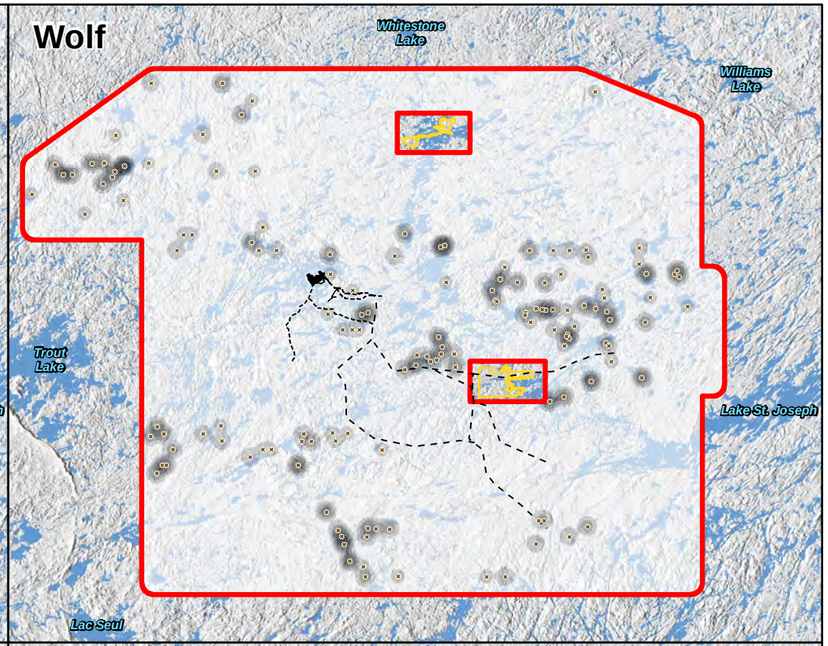
Comparison of High Relative Density Areas for Caribou, Moose and Wolf Observations within the Aerial Survey Study Area (Winter 2022)

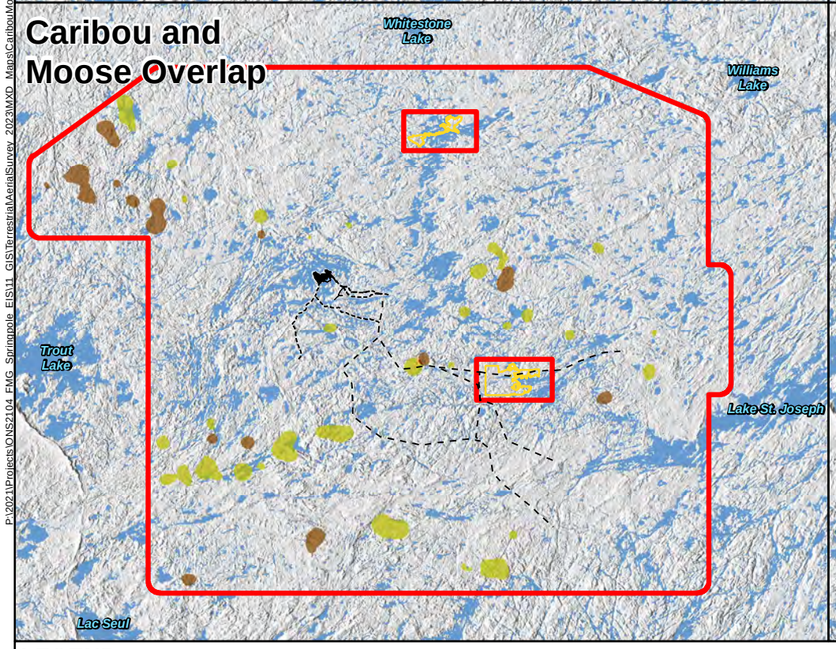
PROJECT N°: ONS2104 | **FIGURE: 3-12b**

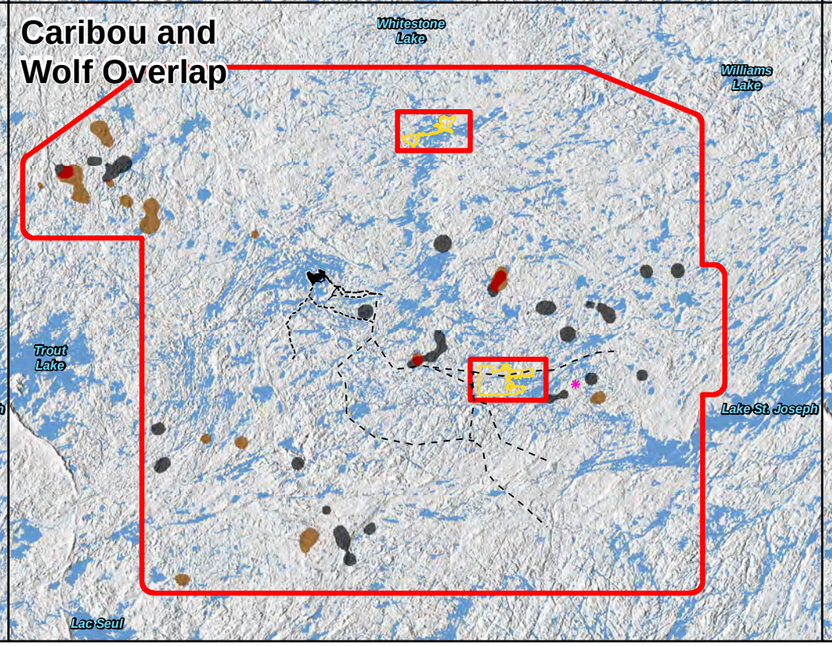
SCALE: 1:1,675,000 | DATE: October 2024

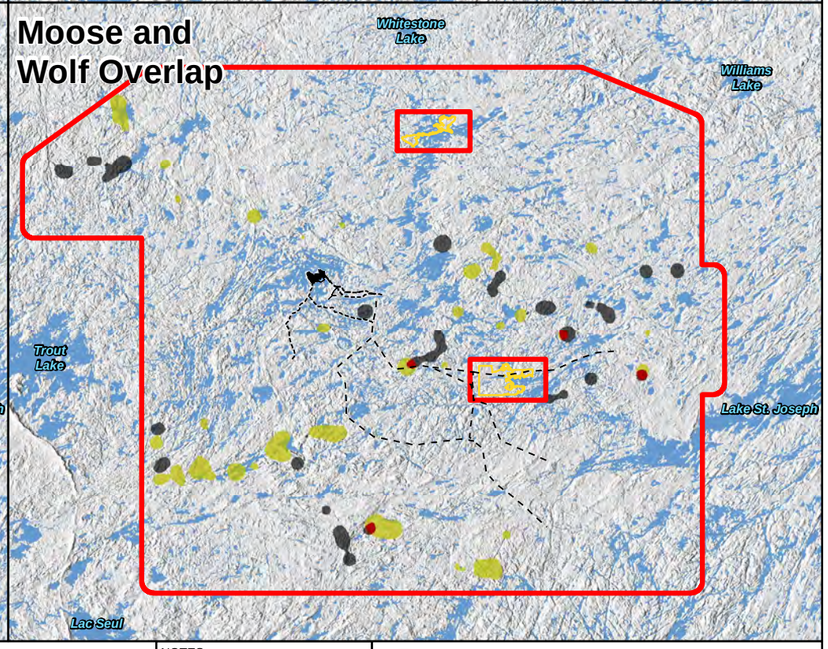












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LEGEND

- Proposed Mine Site, Access Road alternatives and Transmission Line alternatives
- Aerial Survey Study Area (2023)
- First Nation Community

Observation Summary (2023 Aerial Survey)

- Tracks Observed
- Animal Sighting (labelled with # animals observed)

General Relative Caribou Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Caribou Density Areas

General Relative Moose Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Moose Density Areas

General Relative Wolf Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Wolf Density Areas

- Areas of Relatively High Density Overlap

0 75 150 225 300 375 Kilometres

NOTES:
- Background topographic map extracted from ESRI online basemap services
- 2023 Field track and observation data used to generate relative density surfaces.
- Point data was weighted by observation count information and/or number of tracks.

Datum: NAD83
Projection: UTM Zone 15N

FIRST MINING GOLD

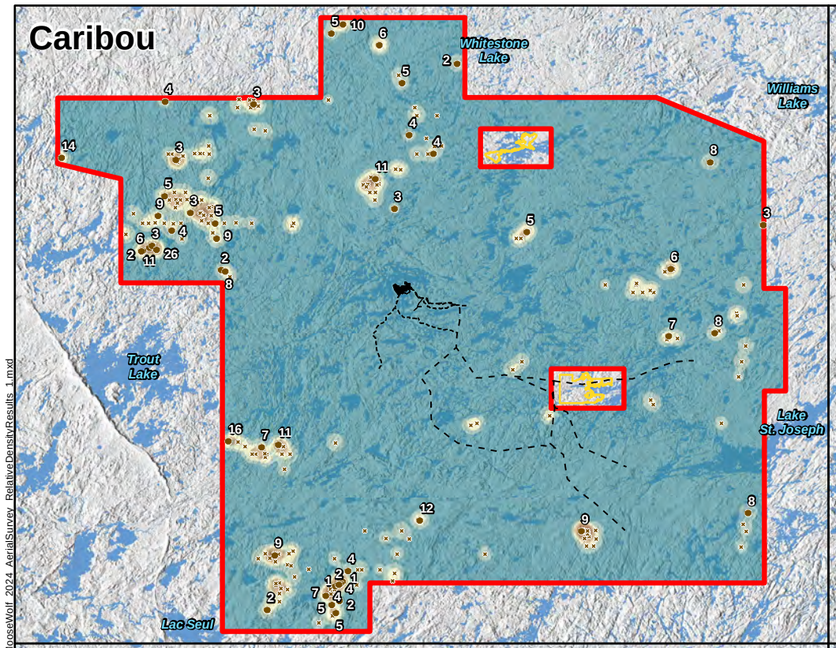
wsp

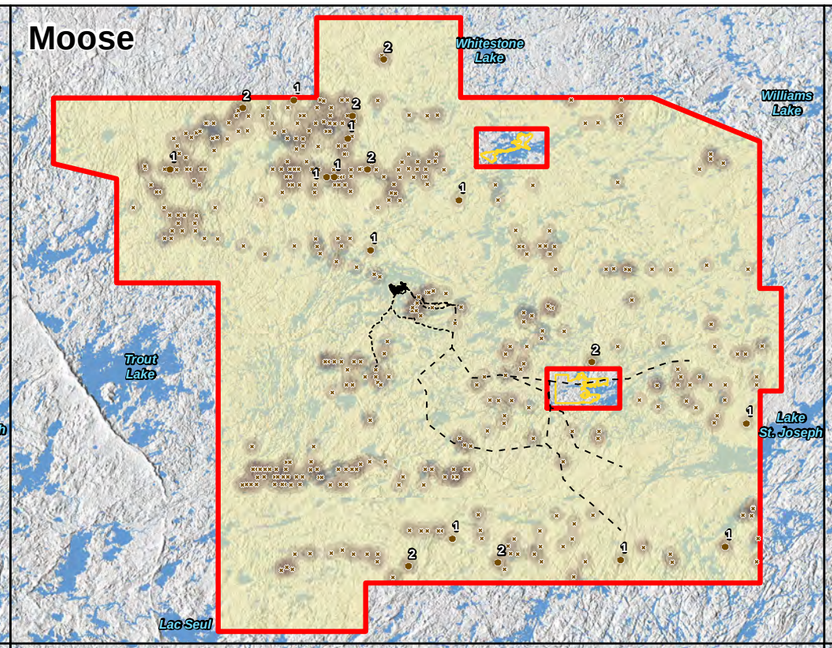
SPRINGPOLE GOLD PROJECT

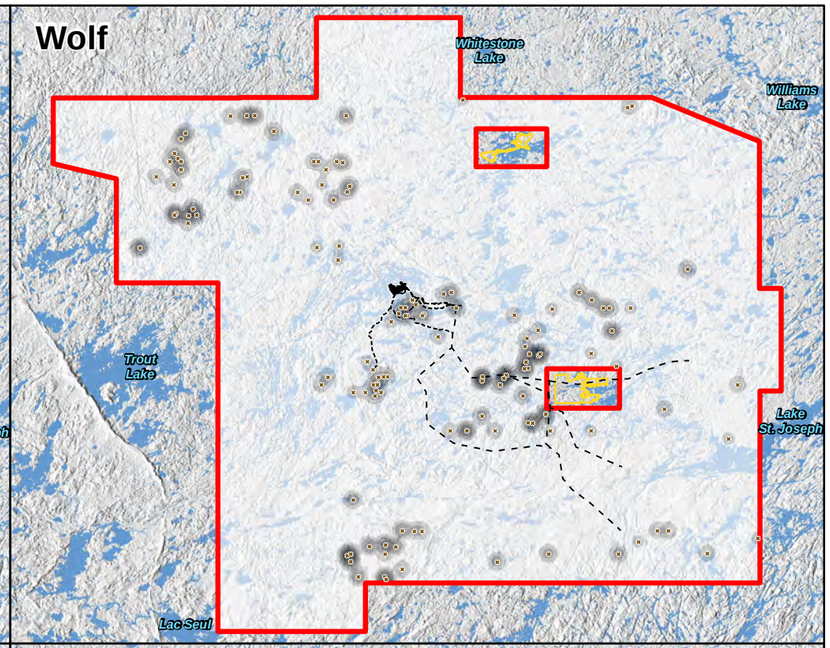
Comparison of High Relative Density Areas for Caribou, Moose and Wolf Observations within the Aerial Survey Study Area (Winter 2023)

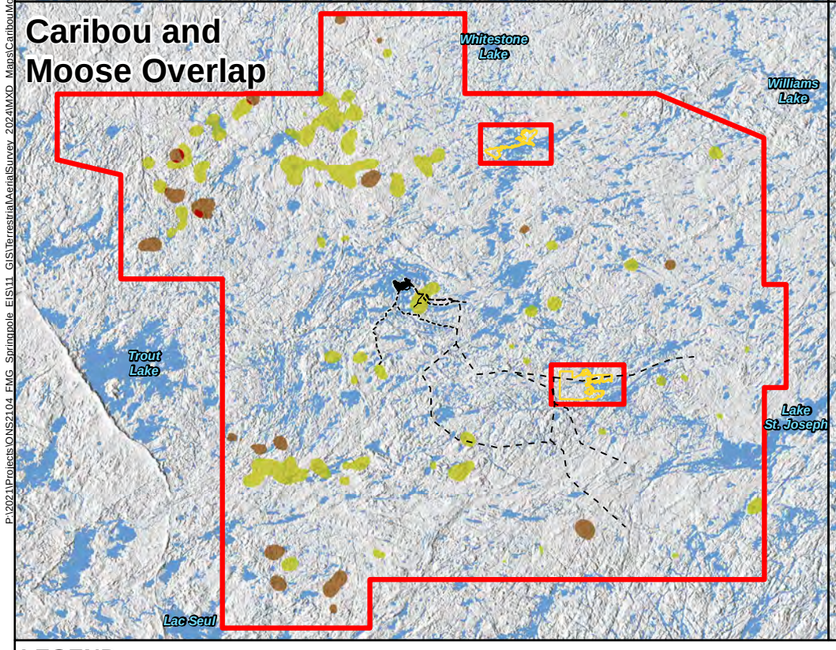
PROJECT N°: ONS2104 | **FIGURE: 3-12c**

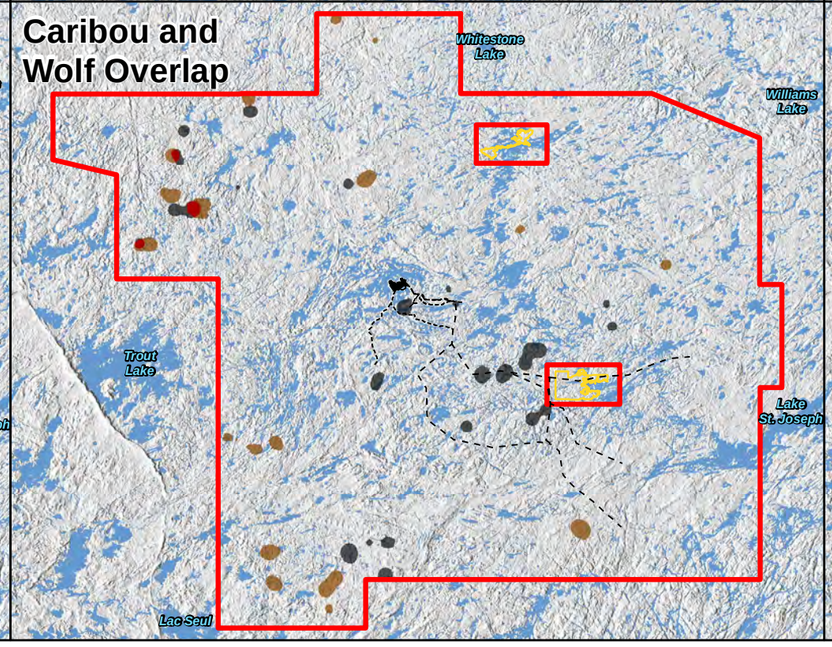
SCALE: 1:1,500,000 | DATE: October 2024

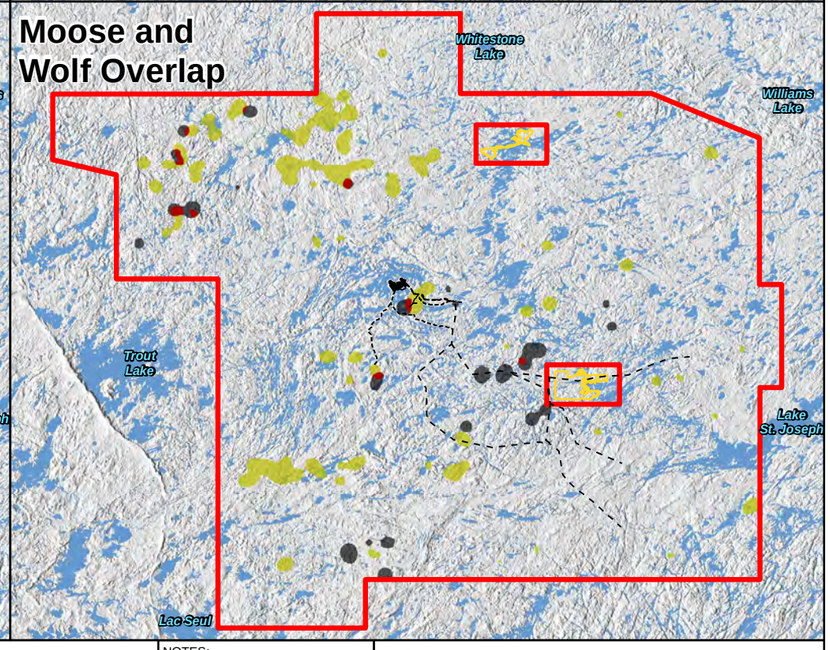












P:\2024\Projects\ONS2104_FNG_Springpole_EIS\11_GIS\Terrestrial\AerialSurvey_2024\MXD_Mpls\CaribouMooseWolf_2024_AerialSurvey_RelativeDensityResults_1.mxd

LEGEND

- Proposed Mine Site, Access Road alternatives and Transmission Line alternatives
- Aerial Survey Study Area (2024)
- First Nation Community

Observation Summary (2024 Aerial Survey)

- Tracks Observed
- Animal Sighting (labelled with # animals observed)

General Relative Caribou Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Caribou Density Areas

General Relative Moose Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Moose Density Areas

General Relative Wolf Density

- Low
- Medium Low
- Medium
- Medium High
- High
- Relatively High Wolf Density Areas

- Areas of Relatively High Density Overlap

0 80 160 240 320 400 Kilometres

NOTES:
- Background topographic map extracted from ESRI online basemap services
- 2024 Field track and observation data used to generate relative density surfaces.
- Point data was weighted by observation count information and/or number of tracks.

Datum: NAD83
Projection: UTM Zone 15N

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wsp

SPRINGPOLE GOLD PROJECT

Comparison of High Relative Density Areas for Caribou, Moose and Wolf Observations within the Aerial Survey Study Area (Winter 2024)

PROJECT N°: ONS2104 | **FIGURE: 3-12d**

SCALE: 1:1,550,000 | DATE: October 2024

Figure 3–13: Caribou Observation Summary Map (winter aerial surveys 2021–2024)

Confidential

500000 520000 540000 560000 580000 600000 620000 640000 660000

5700000 5680000 5660000 5640000 5620000

Carillon Lake
Kapikik Lake
Gitche Lake
Dobie Lake
Meen Lake
Zionz Lake
Birch Lake
Fawcett Lake
Wright Lake
Shabumeni Lake
Obaskaka Lake
Gull
Bertha Lake
Kezik Lake
Fry Lake
Trout Lake
Woman Lake
Narrow Lake
Okanse Lake
SLATE FALLS NATION
Joyce Lake
Perrigo Lake
Confederation Lake
Sesikinaga Lake
Bamaji Lake
Jeanette Lake
Uchi Lake
Blackstone Lake
Lake St. Joseph
Doran Lake
Slate Lake
Whitemud Lake
Otatakan Lake
Bluffy Lake
Miniss Lake
Churchill Lake
St. Raphael Lake
De Lesseps Lake
Wenasaga Lake

SPOLE_WOL_23
SPOLE_WOL_9
SPOLE_WOL_24
SPOLE_WOL_4
SPOLE_WOL_25
SPOLE_WOL_5
SPOLE_WOL_8
SPOLE_WOL_6
SPOLE_WOL_22
SPOLE_WOL_7
SPOLE_WOL_10
SPOLE_WOL_18
SPOLE_WOL_17
SPOLE_WOL_21
SPOLE_WOL_16
SPOLE_WOL_20
SPOLE_WOL_19
SPOLE_WOL_3
SPOLE_WOL_15
SPOLE_WOL_2
SPOLE_WOL_14
SPOLE_WOL_1
SPOLE_WOL_13
SPOLE_WOL_12
SPOLE_WOL_11

X:\CAD\OAK300-OAK\MIS-FS1-Project\P2021\Projects\ONS2104_FMG_Springpole_EIS\11_GIS\TerrestrialBaseline_2022\MXD\Wolverine_Camera_Stations_and_Presence_1.mxd

LEGEND

- Proposed Mine Feature
- Wolverine Local Study Area
- Wolverine Regional Study Area
- Wolverine Run Pole Location (Labelled with ID)
- Wolverine Presence Not Detected
- Wolverine Presence Detected
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

0 10 20 40 60 80 100 Kilometres

NOTES:
- Topographic information extracted from LIO, MNRF.
- Proposed site plan provided by Ausenco, drawing number 105877-0000-G-001, Rev C. 29 July 2021.
- Co-Disposal Facility provided by Knight Piésold Ltd., 27 September 2021.

Datum: NAD83
Projection: UTM Zone 15N

N W E S

First Mining Gold

wsp

SPRINGPOLE GOLD PROJECT

Wolverine Run Pole Locations Wolverine Detections

PROJECT N°: ONS2104 | **FIGURE: 3-14**

SCALE: 1:450,000 | DATE: October 2024

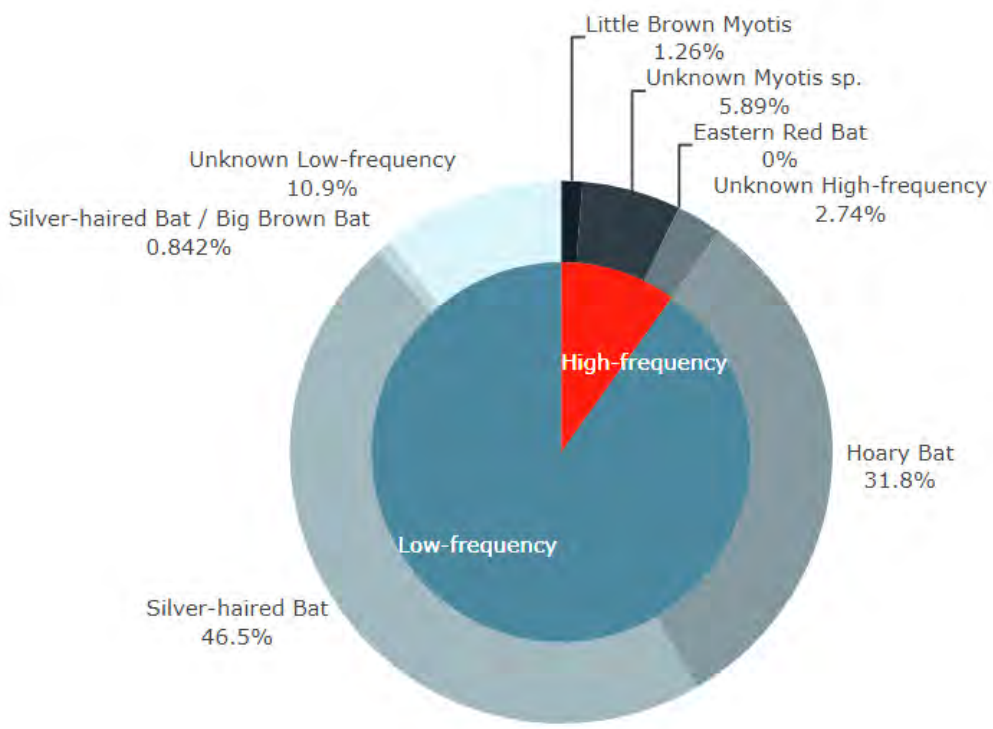

Figure 3–15: Proportions of Bat Activity by Each Species or Species Group Detected within the Baseline Investigations Area during 2021 Maternity Habitat Surveys

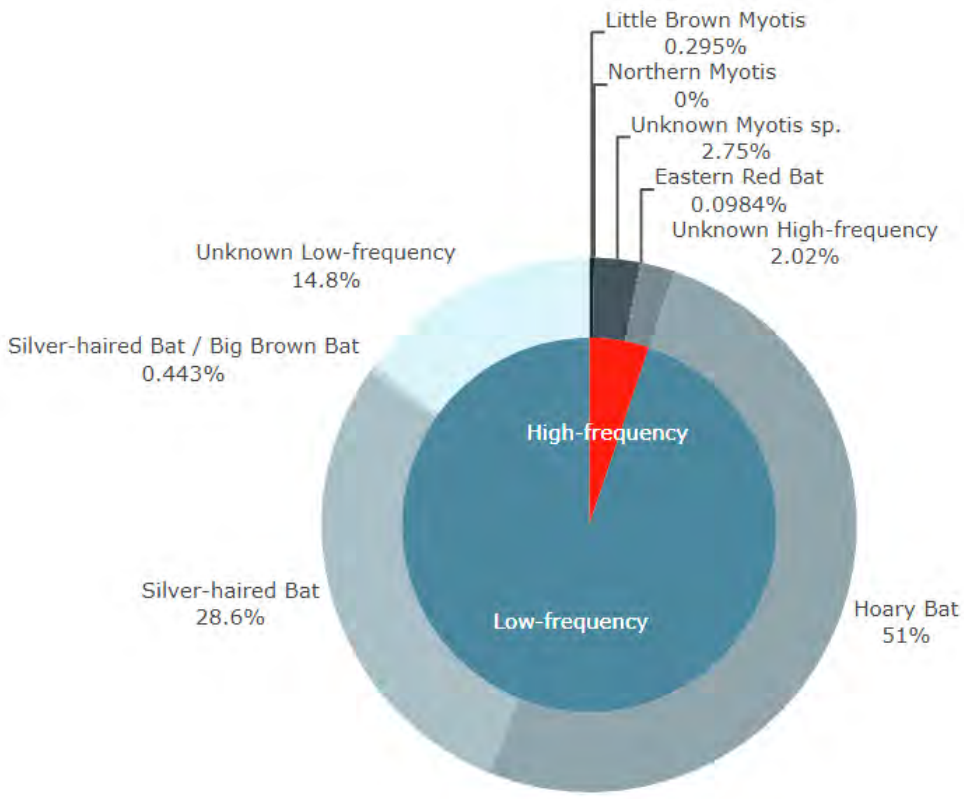

Figure 3–16: Proportions of Bat Activity by Each Species or Species Group Detected within the Baseline Investigations Area during 2022 Maternity Habitat Surveys

Note:
The proportion of activity for confirmed Northern Myotis is 0.001%.

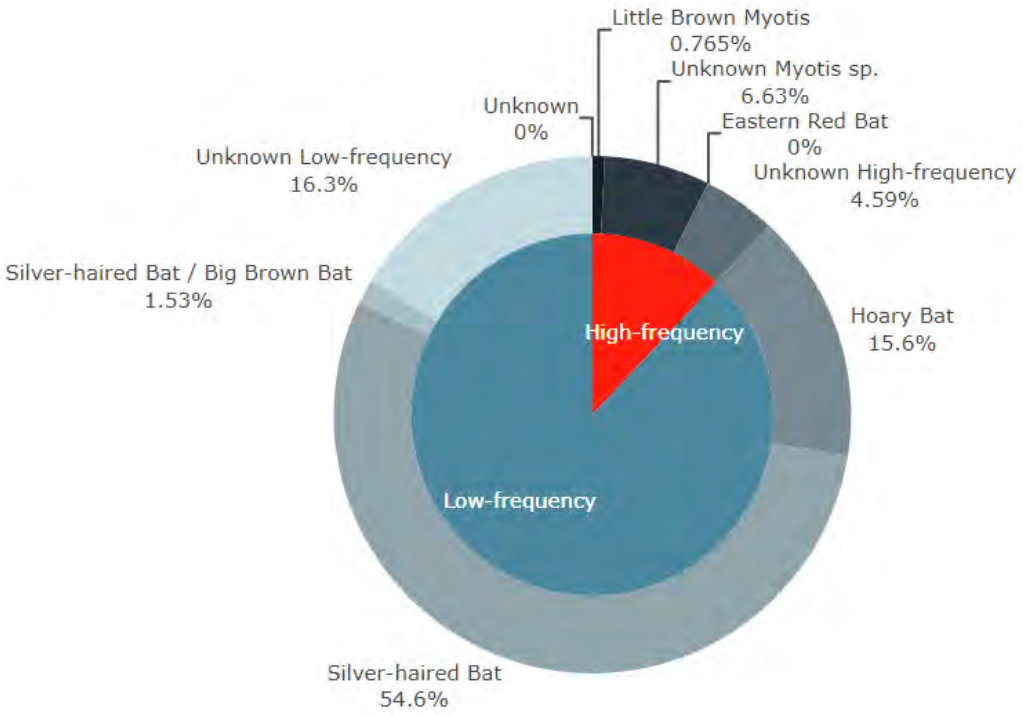

Figure 3–17: Proportions of Bat Activity by Each Species or Species Group Detected within the Baseline Investigations Area during 2023 Maternity Habitat Surveys

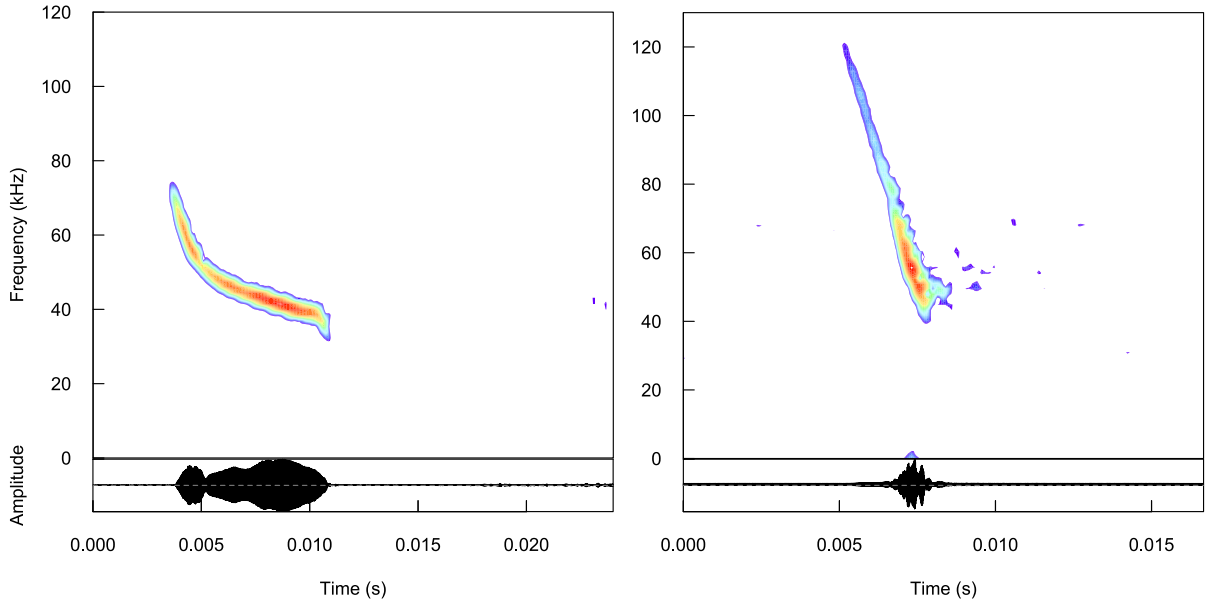

Figure 3–18: Spectrograms of Species at Risk Bat Echolocation Calls

Note:
Produced by a Little Brown Myotis (left) at Site A11 in 2021, and of a Northern Myotis (right) at Site C20 in 2022.

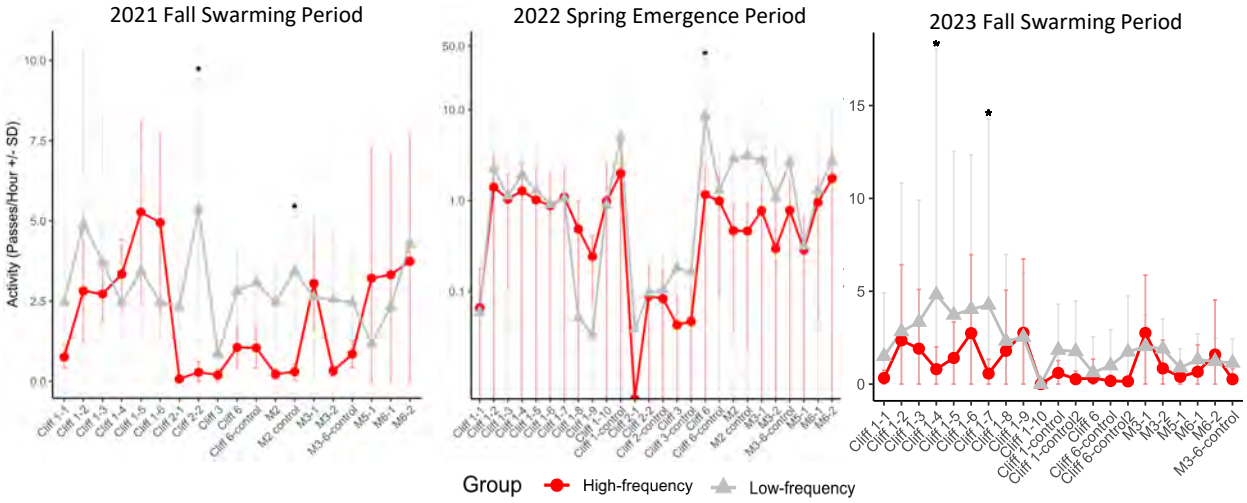

Figure 3–19: Average Cumulative Activity (passes/hour ± standard deviation) of High-Frequency and Low-Frequency Bat Species

Note:
At abandoned mine and cliff sites in the vicinity of the baseline investigation area that harbour potentially suitable overwintering features for bats. Significant differences in activity between high-frequency and low-frequency groups at each site are denoted with an asterisk (*). Activity for 2022 spring emergence (middle panel) is represented on the log scale due to the large standard deviation for low-frequency bats at Cliff 6.

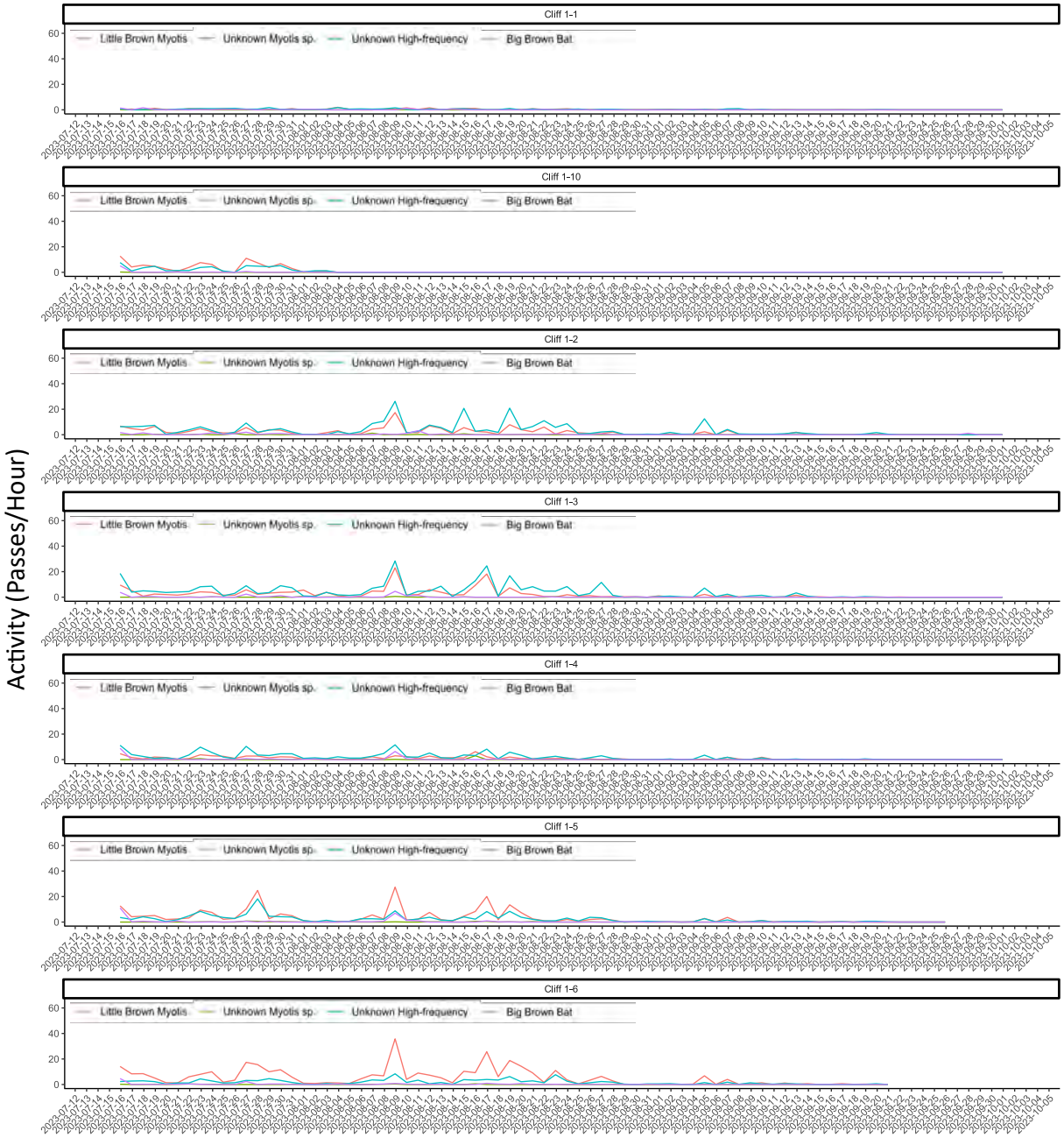

Figure 3–20: Nightly Activity of Hibernating Species at Each Survey Station during 2023 Candidate Hibernacula Surveys

Note: Auto-classifications of Big Brown Bat are included as Big Brown Bat is a hibernating species. However, auto-classifications to Big Brown Bat were not manually vetted so presence of this species is not confirmed for 2023 candidate hibernacula surveys.

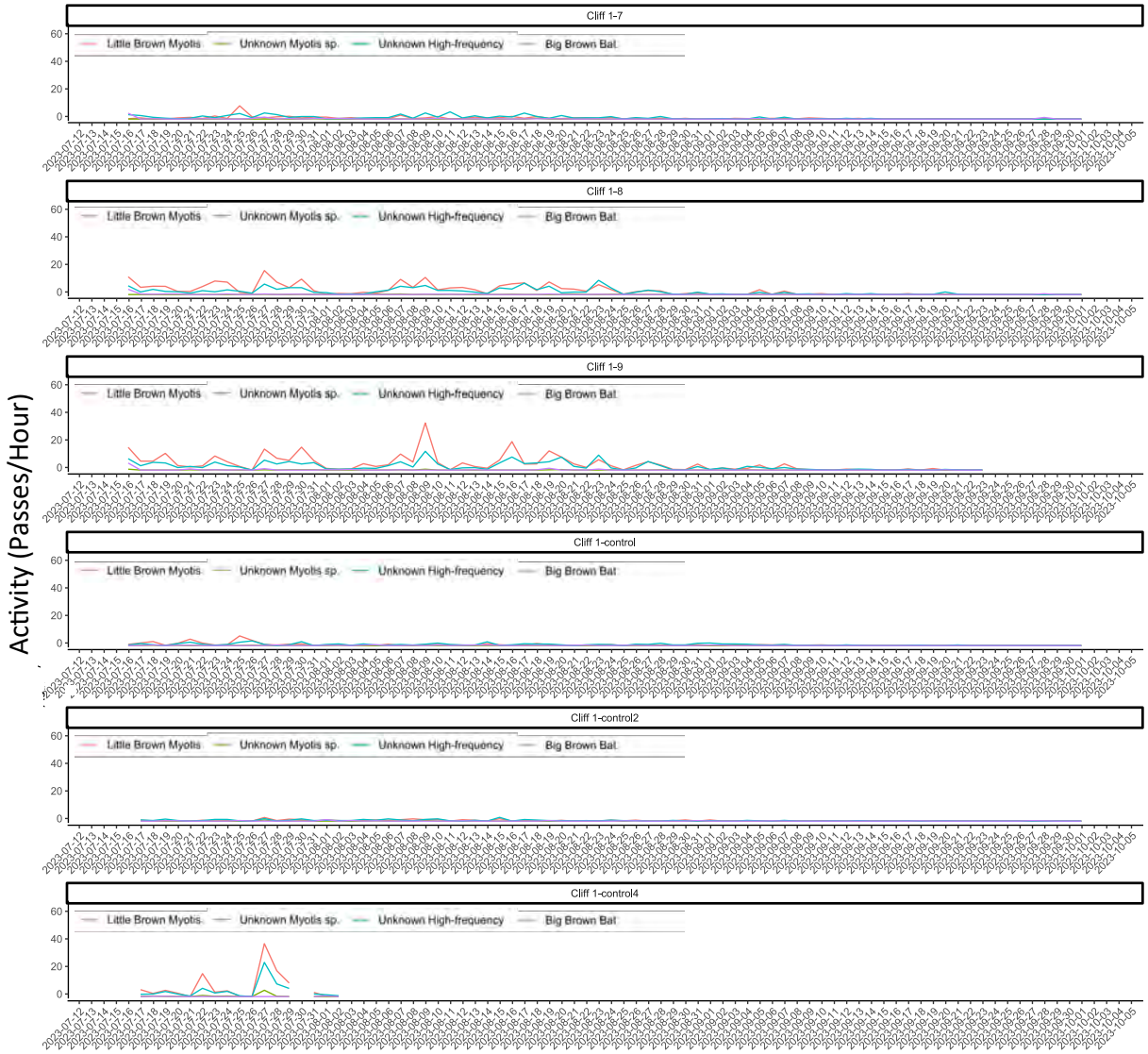

Figure 3–21: Nightly Activity of Hibernating Species at Each Survey Station during 2023 Candidate Hibernacula Surveys

Note: Auto-classifications of Big Brown Bat are included as Big Brown Bat is a hibernating species. However, auto-classifications to Big Brown Bat were not manually vetted so presence of this species is not confirmed for 2023 candidate hibernacula surveys.

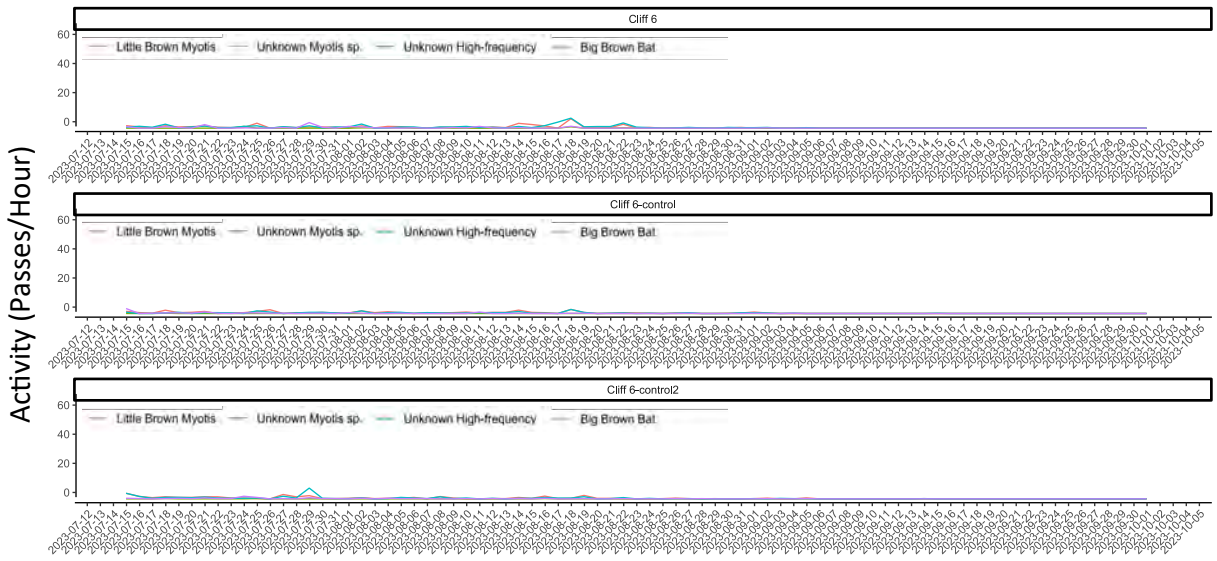

Figure 3–22: Nightly Activity of Hibernating Species at Each Survey Station during 2023 Candidate Hibernacula Surveys

Note: Auto-classifications of Big Brown Bat are included as Big Brown Bat is a hibernating species. However, auto-classifications to Big Brown Bat were not manually vetted so presence of this species is not confirmed for 2023 candidate hibernacula surveys.

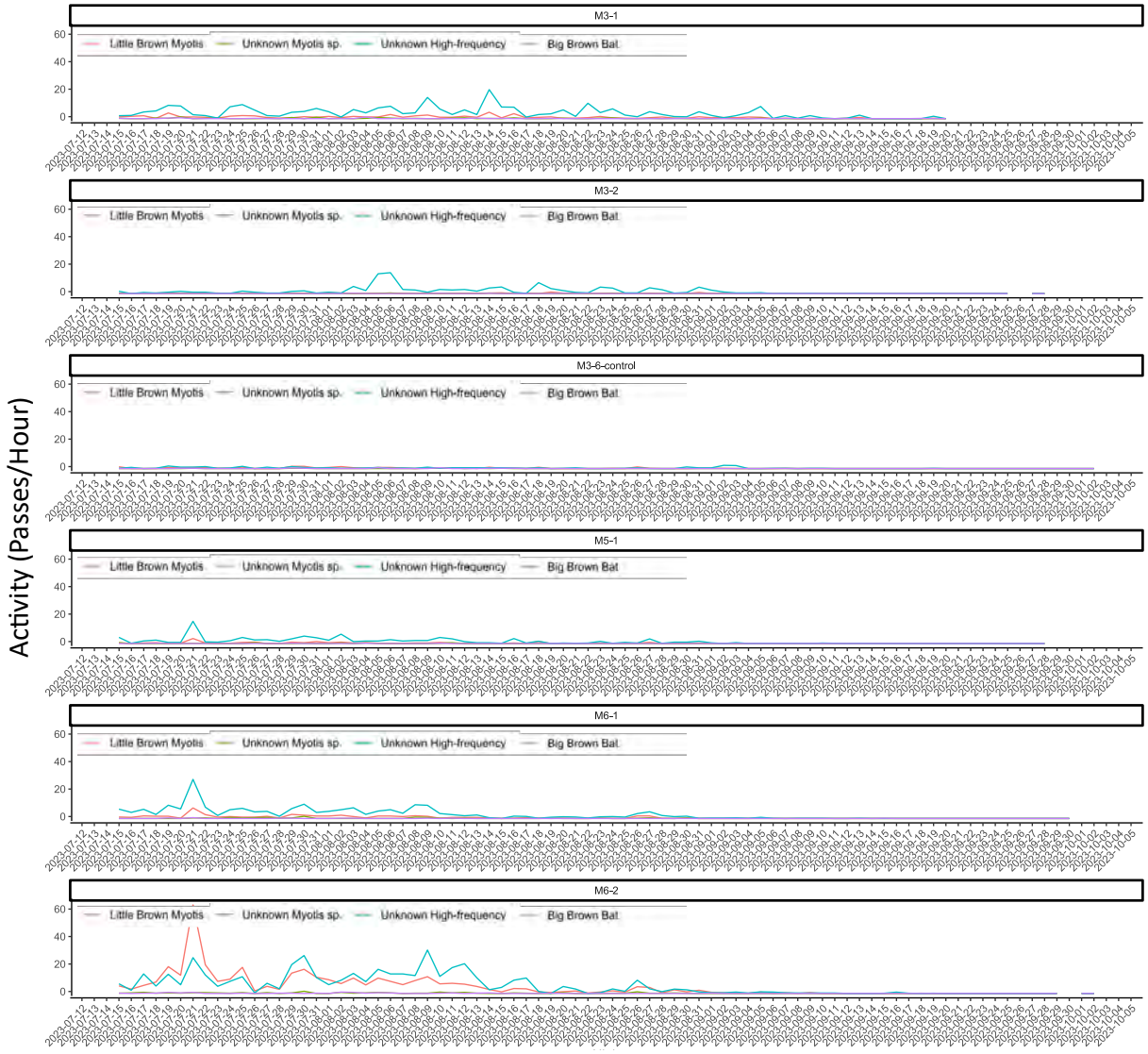

Figure 3–23: Nightly Activity of Hibernating Species at Each Survey Station during 2023 Candidate Hibernacula Surveys

Note:
Auto-classifications of Big Brown Bat are included as Big Brown Bat is a hibernating species. However, auto-classifications to Big Brown Bat were not manually vetted so presence of this species is not confirmed for 2023 candidate hibernacula surveys.



X:\CA\CAO\AK300-OAK\MIS-FS1-Project\FY2021\Projects\ONS2104_FMG_Springpole_EIS\11_GIS\Terrestrial\Baseline_2022\MXD\Mammal_Trap_Locations_2022_2.mxd

LEGEND

- Small Mammal Trap Locations (2022) (labelled with ID)*

NOTES:
- Topographic information extracted from LIO, MNRF.
- Aerial imagery provided by First Mining Gold, 2020.

* Each general location point shown is made up of 5 individual traps in close proximity to each other.

First Mining Gold

WSP

SPRINGPOLE GOLD PROJECT

Mammal Trap Locations (2022)

Datum: NAD83
Projection: UTM Zone 15N

0 100 200 400 Metres

N W E S

PROJECT N°: ONS2104

FIGURE: 3-24

SCALE: 1:4,000

DATE: October 2024

500000 520000 540000 560000 580000 600000 620000 640000 660000

5700000 5680000 5660000 5640000 5620000

M5 M3 M6 Cliff1

SLATE FALLS NATION

Lake Lake Gitche Lake Dobie Lake Meen Lake Birch Lake Zionz Lake Fawcett Lake Wright Lake Shabumeni Lake Obaskaka Lake Gull Lake Bertha Lake Kezik Lake Fry Lake Woman Lake Narrow Lake Okanse Lake Joyce Lake Perrigo Lake Confederation Lake Sesikinaga Lake Bamaji Lake Jeanette Lake Uchi Lake Blackstone Lake Lake St. Joseph Doran Lake Slate Lake Whitemud Lake Otatakan Lake Bluffy Lake Miniss Lake Churchill Lake St. Raphael Lake De Lesseps Lake

X:\CA\CA\OAK300-OAK\MIS-FS1-Project\P2021\Projects\ONS2104_FMG_Springpole_EIS\11_GIS\TerrestrialBaseline_2022\MXD\Bat_Habitat_Map_1.mxd

LEGEND

- Proposed Mine Feature
- Species at Risk Bird Local Study Area
- Species at Risk Bird Regional Study Area
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody
- Bat Candidate Hibernacula (labelled with ID)
- Bat Maternity Habitat
- Bat Foraging Habitat

Confirmed SAR Bat Detections (2021 to 2023)

- Little Brown Myotis and Northern Myotis
- Little Brown Myotis
- Little Brown Myotis and Unknown Myotis
- Unknown Myotis

NOTES:
- Topographic information extracted from LIO, MNRF.

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wsp

SPRINGPOLE GOLD PROJECT

Bat Habitat Map

Datum: NAD83
Projection: UTM Zone 15N

N W E S

0 10 20 40 60 80 100 Kilometres

PROJECT N°: ONS2104 | **FIGURE: 3-25**

SCALE: 1:430,000 | DATE: October 2024

4.0 NATURAL HERITAGE AND SPECIES AT RISK SCREENING

Using the results from field surveys a screening of SAR and natural heritage features applicable under the pertinent legislation was completed in the following sections in order to document the probability of occurrence in the baseline investigation area.

4.1 Species of Conservation Concern, including Species at Risk

In Ontario, species of conservation concern include SAR and rare and rapidly declining species. SAR are species whose individuals or populations are considered Extirpated, Endangered, Threatened, or Special Concern, as determined by the COSSARO and COSEWIC. SAR are regulated by the ESA. The potential for SAR and rare species to occur within the RSA and LSA was determined based on a review of secondary source information and the completion of field investigations. Information collected was then used to evaluate SAR occurrence potential based on habitat preferences for each species. Provincially rare species are those with a provincial rank (sub-national rank) of S1, S2, or S3 and considered provincially vulnerable to imperiled. Provincially rare species are tracked by the NHIC, and provincial rarity does not automatically provide listing under the ESA. Species which are provincially rare and not SAR are considered in the SWH (Section 4.2.2).

Multiple avian (Figure 4–1) and bat (Figure 4–2) SAR have been detected during field surveys. Other SAR that interact with the baseline investigation area include Wolverine (Figure 3) and Boreal Caribou (Figure 3–10, Figure 3–11, Figure 3–12 and Figure 3–13).

An NHIC search was completed for the squares that encompass the baseline investigation area. Note that the NHIC search is based on element occurrences and does not necessarily confirm species presence or absence within the baseline investigation area. Based on the results obtained from the NHIC database, over 3,000 records were documented from grid occurrences that overlap the baseline investigation area. Species lists (Attachment 2) indicate which species were documented in the NHIC. SAR from NHIC results are summarized in Table .

Based on the results of field investigations and background and secondary data sources, a list of species protected under the ESA and SARA that could potentially occur was generated. For each species, an assessment was made as to the likelihood of habitat occurrence in the baseline investigation area based on the biology of the species and the results of field investigations. Each species was classified into one of five probabilities of occurrence:

- **Confirmed:** species for which suitable habitat is present in the baseline investigation area and the species was confirmed during field investigations or confirmed in secondary sources (e.g., consultation with MECP).
- **High:** those species recorded in the vicinity of the baseline investigation area during field surveys or typically within 10 km and recorded in the past 20 years in secondary sources. The preferred habitat is abundant within the baseline investigation area. Species with a high probability of occurrence would be expected to breed within or frequently use the habitats available within the baseline investigation area and would be known to have a high relative abundance within the region (i.e., compared to other regions in Ontario).
- **Moderate:** species for which suitable habitat is present but limited or uncommon in the baseline investigation area and breeding in the area is rare. However, species with moderate probabilities of occurrence may intermittently use the area for foraging, migration or movement to other parts of their home range and therefore may have been documented in secondary sources or field surveys.

- **Low:** those species recorded in the vicinity of the baseline investigation area, but whose preferred habitat does not occur or is extremely limited within the baseline investigation area. These species may intermittently move through the baseline investigation area but are unlikely to become permanent residents. These species have likely not been documented in secondary sources or field surveys, but historical records are possible.
- **None:** those species whose preferred habitat is completely absent from the baseline investigation area. It is unlikely these species have been documented. However, historical or vagrant records (e.g., a species that is currently outside their wintering and breeding area) may exist.

Note that other SAR may come into the area, or species already occurring in the area may be up-listed at any time. Species that have a moderate or high potential to occur in the investigation area or have been confirmed in the investigation area will be carried forward to the impact assessment (under separate cover). Additionally, SAR bird species that may be documented as flyovers or vagrants in the investigation area during migration, but that have not been documented in sources thus far, include American White Pelican, Buff-breasted Sandpiper, Golden Eagle, Harris's Sparrow, Horned Grebe, Hudsonian Godwit, Peregrine Falcon, Red Knot and Red-necked Phalarope. These species are not expected to nest or overwinter, nor to have any individual site that is important as a migratory stopover location in the investigation area. These species have not been included in the SAR screening.

Eleven SAR have been confirmed in the investigation area (Table 4-2): two listed as Endangered (Black Ash and Little Brown Myotis), four listed as Threatened (Barn Swallow, Eastern Whip-poor-will, Lesser Yellowlegs, Caribou (Boreal population) and Wolverine) and five listed as Special Concern (Bald Eagle, Canada Warbler, Common Nighthawk, Olive-sided Flycatcher, and Rusty Blackbird).

4.2 Natural Heritage Features

Natural heritage features applicable under the Provincial Policy Statement (MMAH 2020) include significant wetlands in the Canadian Shield north of Ecoregions 5E, 6E and 7E1, SWH, ANSI and adjacent lands.

4.2.1 Significant Wetlands

A total of 5,140 wetlands have been identified in the RSA. Previous fieldwork did not confirm any significant wetlands through formal provincial evaluation or a site-specific evaluation. A federal wetland significance assessment was undertaken using logic-based indicators to reflect understood paradigms of wetland hydrology, biogeochemistry, and ecology. Of the 5,140 wetlands identified, 95 were identified as significant (Figure 4–3). Significant wetlands exhibited similar characteristics in terms of their dominant type, geographical position, size, and complexity. The majority of significant wetlands were classified as coniferous swamp dominant, making up 98% of the total (93 of 95). Boreal wetlands act as key interfaces between terrestrial and aquatic ecosystems and are characterized by significant biodiversity and endemism (Pelster et al. 2008). Each of the significant wetlands occupied a lacustrine hydrologic setting (wetlands influenced by lake waters). Unlike isolated and palustrine locations whose productivity is dependent on rainfall, overland flow, and/or groundwater seepage, lacustrine wetlands' nutrient supply is influenced by changes in lake level and water flushing (MNRF 2022). They are not anticipated to be deficient in oxygen or mineral nutrients (MNRF 2022). Riparian swamps near floodplains and lakes may trap and deposit sediment and reduce high-energy flows and waves, providing shoreline and erosion protection and hydrological functions (Hanson et al. 2008). Also, access to permanent open water is an important factor to many species, increasing wetland quality and habitat diversity (Hanson et al. 2008; MNRF 2022).

Significant wetlands had 3 to 6 different wetland community types present (100%) and generally extended over 200 ha (88%). Larger wetlands are generally more likely to contain various valued features (MNRF 2022). In addition, wetlands with greater wetness richness have a greater diversity of the habitat available

(MNRF 2022). The 95 significant wetlands intersected a total of 133 SAR observations and 8,374 significant wildlife polygons, which made up 54% of the total observation points and 38% of the total key wildlife habitats.

In the context of climate regulation and carbon sequestration, boreal wetlands serve as crucial global carbon reservoirs (Pelster et al. 2008). Wetlands characterized by an organic substrate, such as bogs, fens, and swamps, typically exhibit moderate to high performance in terms of carbon sequestration due to their ability to accumulate peat and woody vegetation, which are substantial carbon sinks (Hanson et al. 2008). Mineral substrate swamps, despite having higher decomposition rates and less accumulated peat, still possess notable carbon storage capacity. This is largely attributed to their abundant woody vegetation, which serves as a significant carbon reservoir (Hanson et al. 2008).

The Project footprint intersects with 12 significant wetlands. Details about these wetlands, including their identification numbers, total area, and the area impacted by the Project (i.e., the area where the wetlands overlap with the Project footprint), are provided in Attachment 5. For each wetland, the area of impact is presented in both hectares and as a percentage of the total wetland area.

4.2.2 Significant Wildlife Habitat

SWH is considered of provincial significance in Ontario. Development in SWH is prohibited unless it can be demonstrated that development will have no negative impact on features and functions. Wildlife habitat is considered "significant" if it is deemed ecologically important in terms of feature, function, representation, or amount, and contributing to the quality and diversity of an identifiable geographic area or Natural Heritage System (MMAH 2020). Within Ecoregion 3S, no specific SWH criteria schedule has been developed; however, a draft schedule for Ecoregion 3W has been developed and is available and uses ELC for the Boreal Forest. The SWH criteria schedule for Ecoregion 3W (OMNRF 2017a) is used to determine the presence of SWH. Other provincial documents used to identify and assess SWH are the *Natural Heritage Reference Manual* (OMNR 2010), the *Significant Wildlife Habitat Technical Guide* (OMNR 2000) and the *Significant Wildlife Habitat Mitigation Support Tool* (OMNRF 2014b). The NHIC make-a-map query provided two types of SWH (Table).

SWH has been evaluated for the baseline investigation area, and 17 habitats have been evaluated as candidate and 11 as confirmed (SWH types can be both candidate and confirmed). Habitats not discussed in Sections 4.2.2.1 to 4.2.2.5 were evaluated as not present as either habitat requirements or species are not present (Attachment 6). The SWH discussed below were determined to be either candidate or confirmed.

4.2.2.1 Seasonal Concentration Areas

Seasonal concentration areas are those where wildlife species occur annually in aggregations at certain times of the year. Such areas are sometimes highly concentrated with members of a given species, or several species, within relatively small areas. Some wildlife species will concentrate where they can rest and feed, and other wildlife species require habitats where they can survive winter.

Waterfowl Stopover and Staging Areas (aquatic) – Candidate and Confirmed

Indicator species are present within the RSA. Habitat is considered Candidate where qualifying ecosites are present associated with large bodies of water, including B142 (Caribou Forest FRI, Cat Lake FRI, LacSeaul FRI, Trout Lake FRI), B144 (LacSeaul FRI, Trout Lake FRI), and B146 (Cat Lake FRI, LacSeaul FRI, Trout Lake FRI).

Watercourse WF13 (including a 100-meter radius) has been confirmed as an aquatic seasonal construction area for waterfowl stopover and staging area. The site was the first to be ice-free in the season. This site was confirmed based on field investigations, as from May 4 to May 7, 2022, approximately 1,511 individual

indicator species were observed at WF13. The highest count was recorded on May 7, 2022, with 215 Common Goldeneye, 110 Mallard, 107 Green-winged Teal, 102 Bufflehead, 88 Ring-necked Duck, and 20 Common Loon. Indicator ecosites around this watercourse further support its significance as a waterfowl habitat.

Shorebird Migratory Stopover Area – Candidate

Candidate ecosites associated with the shorelines of lakes, rivers and wetlands are present in the RSA, including B162 ecosites in Trout Lake FRI. Four sites were examined alongside WF-6 (Jeanette Lake) and the remaining one located on the edge of a large burn. Waterfowl surveys conducted near B162 at Survey Point WF6 on May 4, 2022, did not record any indicator species. However, indicator species are known within the RSA. Due to the low numbers, additional surveys were conducted in June after more ice-off to determine if there was a change in use. However, sufficient evidence to confirm the presence of indicator species in the candidate ecosites was not documented in 2022.

Colonially Nesting Bird Breeding Habitat: Tree/Shrub – Confirmed and Candidate

Confirmed in the NHIC data as Mixed Wader Nesting Colony, these sites require the confirmation of 4 or more active nests of Great Blue Heron, 5 or more nests of Bonaparte's Gull, or 25 or more nests of Double-crested Cormorant. The NHIC squares which contain these records are provided in Figure 4–4. The SWH is the edge of the colony and a minimum 150 m radius area of habitat surrounding the Bonaparte's Gull colony or the edge of the colony and a minimum 100 m radius area of habitat surrounding the Double-crested Cormorants colony. The NHIC should be contacted to confirm colony type and further surveys to document limits of Bonaparte's Gull colonies can be done.

Additionally, a small breeding colony of Bonaparte's Gull nests consisting of 2 or more nests and 12 or more birds was found west of Bamaji Lake in 2021. Previous studies by DST (2012) documented Bonaparte's Gull nesting colony, but the number of nests was not provided (Figure 4–4). These areas may contain more or less nests, and further survey could confirm.

Colonially Nesting Bird Breeding Habitat: Ground – Confirmed and Candidate

Confirmed in the NHIC data as Colonial Waterbird Nesting Area (Figure 4-4), these sites require the confirmation of more than 25 active nests for Herring Gulls or Ring-billed Gulls, more than 5 active nests for Common Tern or 1 nest for Caspian Tern. The NHIC squares which contain these records are provided in Figure 4–4; however, they were not confirmed in field surveys as SWH has not been delineated. The SWH is the edge of the colony and a minimum 150 m radius area of habitat, or the extent of the ELC ecosites containing the colony or any island greater than 3 ha with a colony. For Double-crested Cormorant colonies with less than 25 active nests, the edge of the colony and a minimum 100 m radius is SWH. Further surveys to confirm numbers of gull colonies should be done, and NHIC should be contacted to confirm colony type.

Additionally, the presence of two or more pairs for Brewer's Blackbird confirms this colony type. Small breeding colonies of Herring Gull were found on small rocky islands in large lakes, none with more than about five breeding pairs.

Eagle and Osprey Concentration Area – Candidate

This SWH type is of annual importance to migrating and/or wintering eagles and ospreys. Important habitat includes forested ecosites within the vicinity of lakes and rivers that receive large runs of salmonids. Most sites are used for several years and are important hunting locations. Studies must verify less than 5 individuals and less than 35 hunting days in either spring, fall, or winter by indicator species. While many Osprey and Bald Eagle nests were found during aerial surveys the number of active individuals and hunting days is not known. Bald Eagle is also considered under Bald Eagle and Osprey Nesting Habitat (Confirmed) and Habitats of Species of Conservation Concern (Confirmed).

Sharp-tailed Grouse Leks – Candidate

Candidate ecosites B136, B137, B138, B139, B140, and B141, all characterized as bog and fen, were present in the Study Area. Although these sites were present, they weren't evaluated for the presence of lek characteristics such as proper drainage, knolls, size, or distance from adjacent shrub or forest stands. Evidence of grouse was seen in open bogs and fens during winter aerial surveys. Due to the time of year and habitat, it is assumed these were Sharp-tailed Grouse. OBBA also recorded Sharp-tailed Grouse in the area. However, sufficient evidence to confirm lek characteristics in the candidate ecosites was not documented in 2022.

Bat Hibernaculum – Confirmed

Based on field investigations, four features could not be eliminated from the list of identified potential bat hibernacula: Cliff 1, M3, M5, and M6. As such, these four features are considered confirmed bat hibernacula SWH. Cliff 1 comprises the cliff along the north shore of Springpole Lake. The remaining features (M3, M5, and M6) are within 600m of each other and are located approximately 9km northwest of the PDA.

Bat Maternity Colonies – Confirmed

Females of many bat species are colonial in the breeding season, leaving their young in tree cavities while they forage. Several qualifying ecosites occur in the RSA (B012, B034, B049, B052, B055, B065, B067, B098, B104, B127, B128 and B129). Bat habitat surveys (snag surveys) were completed and found an average snag density of 30 cavity trees with a DBH greater than 25 centimetres per hectare (cm/ha). Of the ecosites surveyed in the RSA that qualify as SWH (B034, B049, B052, B055, B065, B104, B127, and B128), all had cavity tree densities above 20 trees per hectare of cavity trees with a DBH greater than 25 cm. This indicates that most or all deciduous or mixed forests in the baseline investigation area have sufficient cavities to support bat maternity colonies.

Nearly all cavities identified were in Trembling Aspen, with much lower numbers in spruce and birch. The most frequently recorded species within the baseline investigation area were by far the Silver-Haired Bat, followed by the Hoary Bat. No passes could be confirmed as Big Brown Bat.

This SWH type is confirmed in the RSA. The area of SWH includes the entire woodland or a forest stand ELC Ecosite or an Eco element containing the maternity colonies. As determined during field surveys, suitable cavities for bats are locally common in many mixed and deciduous forests in the RSA, and therefore all suitable ecosites outlined in the SWH criteria are considered SWH (Figure 4–4).

Amphibian Breeding Habitat – Candidate

These habitats are extremely important to amphibian biodiversity within northern Ontario landscapes and may include swamps and thickets, vernal/seasonal pooling, riparian and variety of wetland interiors and margins in B109 to B156 and B223 to B224. Most of the ecosites which occur fit the candidate habitat criteria in all four Forest Management Unit FRI ecosites. Suitable breeding habitat is abundant in the area, and several indicator species have been documented by WSP: American Toad, Northern Leopard Frog, Spring Peeper, and Wood Frog. However, at no location were four or more frog/toad species documented.

Blue-spotted Salamander and Gray Treefrog were previously documented by DST. The Blue-spotted Salamander was observed in the existing camp on October 19, 2012, which indicates that it was moving to/around overwintering habitat. Adults can migrate several hundred metres between overwintering and breeding sites. Therefore, to determine candidate SWH, suitable ecosites within 1 km of the existing camp were considered. The habitat criteria to confirm this SWH are wetlands and pools (including vernal pools) greater than 500 m^2 (about 25 m diameter) persisting until August. Several of these occur in a 1 km buffer around the existing camp and contain open water areas suitable for breeding. However, the 2021 fire eliminated some of these areas of habitat, and salamanders have not been observed in over 10 years.

Additionally, exploration activities have increased in the area of candidate habitat, and continued presence of salamanders is unknown. For these reasons, the ecosites that remain after the fire are considered candidate as they could support a breeding population of one or more of the indicator salamander species.

Snake Hibernaculum – Candidate

Snakes hibernate underground below the frost line, in locations such as rocky crevices and deep mammal burrows. Common Gartersnakes are present throughout the RSA and hibernacula almost certainly occur; however, no particular sites of hibernacula were noted. Studies must confirm congregations of a minimum of five individuals or individuals of two or more snake species near potential hibernacula (e.g., foundation or rocky slope) on sunny warm days in spring (April/May) and fall (September/October).

4.2.2.2 Rare Vegetation Communities

Rare vegetation communities often contain rare species, particularly plants and small invertebrates, which depend on such habitats for their survival and cannot readily move to or find alternative habitats. In the FRI provided September 2023, few indicator ecosites were present.

Regionally Rare Plant Species – Candidate and Confirmed

Regionally rare plant species are considered locally rare due to limited available habitat. Confirmed EOs in NHIC include Nahanni Oak Fern (S3), Alpine Woodsia (S2), Red Dung Moss (S2), and Smooth-margin Nitrogen Moss (S2). In addition, several wetlands have been designated as SWH as they supported Floating Marsh Marigold (S2), Northern Marsh Violet (S2S3), Red Dug Moss, Smooth-margin Nitrogen Moss (S2), and/or Yellow Pond-Lily (S3?). The FRI ecosite at Site 505 has Yellow Dung Moss (S1) and Cruet Dung Moss (S3).

Plants are also considered regionally rare if they are noted on the Checklist of Vascular Plants of Thunder Bay District (the Checklist, 2015). The SWH checklist is intended for region 3W, while the Project is located in region 3S. The geographical difference between these regions may significantly affect the distribution and prevalence of these plant species. As such candidate habitat not evaluated or mapped for species present on the checklist.

4.2.2.3 Specialized Habitat for Wildlife

Specialized habitat for wildlife is a community- or diversity-based category. Therefore, the more wildlife species a habitat contains, the more significant the habitat becomes to the planning area.

Waterfowl Nesting Area – Candidate

Most waterfowl species nest in dense vegetation in close proximity to rich wetlands. Ecosites B129, B135, B140, B141, B142, B148, B150, and B152 (Freshwater Marsh, Thicket Swamp, Coniferous Swamp and Open Fen) are present. Four indicator species were documented during field investigations in 2021: Common Goldeneye (fledged young at IMP-A-28), Common Merganser (observed), Hooded Merganser (observed) and, Ring-necked Duck (pair at IMP-E-29). Two locations of Trumpeter Swan nesting and one location with a pair was documented in 2021. DST observed a Common Goldeneye at location MMP01 that was concluded to be a probable breeder based on its observance at the same location on both dates.

To confirm SWH, studies during the spring breeding season (April to July) must confirm three or more nesting pairs of indicator species.

Wild Rice Stand – Candidate and Confirmed

Wetlands containing large stands of wild rice are important rearing and migratory stopover locations for waterfowl. Zizania palustris (Wild Rice) is found in ponds, marshes, lakes, bays, coastal inlets, and watercourses with wild rice. These habitats provide an abundant food supply for waterbirds. Sites with wild

rice have a high likelihood of being waterfowl stopover and staging areas. Studies confirm that wetland communities where Wild Rice is the dominant emergent vegetation over an area greater than 1 hectare are considered SWH.

Ecosite B142 occurs in all four FMU FRIs. B144 also occurs in Lac Seaul and Trout Lake. B148-B152 were documented in fieldwork but are not considered in the updated FRI. Wild Rice was noted as potentially present in SD-WR-04, SD-WR-09, and WP 343. However, the species and extent could not be confirmed due to the limitations of the surveys.

Confirm SWH was documented by WSP in 2022 in Ecosite B152 at Site 254. Wild Rice was one of the dominant species present, with aerial coverage estimated at 5%.

Bald Eagle and Osprey Nesting Habitat – Confirmed

Bald Eagles and Ospreys forage primarily around lakes and large rivers and nest in large trees nearby. Studies must confirm one or more active Osprey or Bald Eagle nest, and it is considered SWH if the nest has been used or suspected of use within the past five years, unless documented that the nest and other associated nests in the nesting area have been unoccupied within the past and consecutive years by Osprey or Bald Eagle. Bald Eagle is also considered under Eagle and Osprey Concentration Area (Candidate) and Habitats of Species of Conservation Concern (Confirmed).

Some species have more than one nest in a given area and priority is given to the primary nest, with alternate nests included within the area of the SWH. To delineate the area of SWH for an Osprey, the active/main nest and a 300 m radius around the nest or the contiguous woodland stand is considered the SWH, and maintaining undisturbed shorelines with large trees within this area is important. For a Bald Eagle, the active/main nest and a 400 to 800 m radius around the nest is the SWH. Area of the habitat from 400 to 800 m is dependent on sight lines from the nest to the development and inclusion of perching and foraging habitat.

Bald Eagles and Ospreys are present throughout the RSA. Forty Osprey Nest sites were identified in the baseline investigation area in ministry mapping, and aerial surveys confirmed 20 raptor nests including those for Bald Eagle and Osprey.

Woodland Raptor Nesting Habitat – Candidate

Many species of hawks and owl nest in trees within forests and are vulnerable to disturbance. Several indicator species were identified in the baseline investigation area, American Kestrel, Broad-winged Hawk, Common Raven, Great Gray Owl, Merlin, Red-tailed Hawk and Sharp-shinned Hawk. Any nesting location will qualify as significant, although no existing nesting sites have been identified. Aerial surveys and NHIC data document "raptor nests" (other than Osprey and Bald Eagle), though species were not discernible. Other surveys documented Barred Owl, Boreal Owl and Northern Saw-whet Owl.

SWH is a radius around the nest from 25 to 400 m or 28 ha, depending on the species. Additional field investigations using call broadcasts from mid-March to end of May and examination of ARU data from 2021 could help confirm nesting locations.

Aquatic Feeding Habitat – Confirmed

Aquatic feeding habitats are an extremely important habitat component for Moose and other wildlife as they supply important nutrients. Forest cover adjacent to these areas is important as well to provide summer thermal cover, screening and escape cover. Thirty-one locations occur in the baseline investigation area, according to NHIC, in the southern extension. Two are unrated, 6 are rated low, 12 are rated moderate, 10 rated high and 1 rated very high. Sites classed high and very high are mapped in Figure 4–4.

Seeps and Springs – Candidate

Seeps and springs are typical of headwater areas and are often at the source of coldwater streams. Although they were not documented it is likely seeps or springs occur somewhere in the baseline investigation area. The indicator species Blue-spotted Salamander, Ruffed Grouse, Spruce Grouse, Moose, Black Bear and Caribou are found in the baseline investigation area.

Mineral Licks – Candidate

Mineral licks are a valuable habitat component but are also very rare on the landscape. This habitat component is found in upwelling groundwater and the soil around these seepage areas. It typically occurs in areas of sedimentary and volcanic bedrock. In areas of granitic bedrock, the site is usually overlain with calcareous glacial till. It is likely mineral licks occur somewhere in the baseline investigation area, although they were not documented. Indicator species such as Moose, Porcupine and Caribou are found in the baseline investigation area.

Mammal Denning Sites – Candidate

Indicator species are all important fur-bearing mammals, and den sites can be a limiting factor in sustaining populations. Mink prefer shorelines dominated by coniferous or mixed forests with dens usually underground. Mink will often use old muskrat lodges. Mink may den in root masses along shorelines of waterbodies. Otters prefer undisturbed shorelines along waterbodies that support productive fish populations with abundant shrubby vegetation and downed woody debris for denning. They often use old beaver lodges or log jams and crevices in rock piles. Marten and fisher share the same general habitat, requiring large tracts of coniferous or mixed forests of mature or older age classes. Denning sites are often in cavities in large trees or under large downed woody debris.

Wolves prefer a more interior forest condition for locating their den sites. Wolves often select sandy sites, sloped for excavation (esker areas should be examined as potentially key sites). Wolf dens are often located in close proximity to wetlands. Lynx den sites are most often associated with the presence of downed woody debris. Black bears, particularly sub-adults, will often den in the base of hollow trees. Such trees are rare and primarily consist of large diameter cedar or sometimes large white spruce.

Most indicator species were confirmed in surveys; however, no denning sites are confirmed. Extensive searches for denning sites are not recommended as they are very difficult to locate but protection of most suitable habitat should be considered during planning.

Marsh Bird Breeding Habitat – Confirmed

Rich wetlands are productive breeding habitats for marsh bird species and rare in northern Ontario landscapes. Ecosites B135, B136, B137, B138, B139, B140, B141, B142, B148, B150, and B152 are present. To confirm SWH, surveys must confirm the presence of five or more nesting pairs of any combination of the listed species or presence of one or more breeding pair of trumpeter swans, Black Tern, or Yellow Rail.

Field Investigations in 2021 found Common Loon, Ring-necked Duck, Sandhill Crane, Sedge Wren, Sora, Spotted Sandpiper and Trumpeter Swan. Trumpeter Swan was found nesting at two locations and a pair was found at one location. When delineating SWH, the area of the ELC ecosite is considered the SWH. Specific ELC delineations and boundary changes have not occurred in these areas; however, the closest FRI polygons are presented in Figure 4–4.

4.2.2.4 Habitats of Species of Conservation Concern

Habitats of Species of Conservation Concern include wildlife species that are listed as Special Concern under the ESA, are provincially tracked, or are provincially rare (S1, S2, S3, SH). Habitats of Species of Conservation Concern do not include habitats of Endangered or Threatened species as identified by the ESA. When an

element occurrence (EO) is identified within a 1 or 10 km grid for a Special Concern or provincially rare species, linking candidate habitat on the site to ELC ecosites needs to be completed. The habitat needs to be easily mapped and cover an important life stage component for a species (e.g., specific nesting habitat or foraging habitat). In some instances below, the EO square is mapped.

All Special Concern species documented as confirmed in the SAR screening or with high probability of occuring were birds: Barn Swallow, Canada Warbler, Common Nighthawk, Eastern Wood Pee-wee, Evening Grosbeak, Olive-sided Flycatcher, Peregrine Falcon, Rusty Blackbird, Yellow Rail. No Special Concern mammals, herptiles, or insects had a moderate to high probability of occurring. No provincially tracked species were documented. However, five provincially rare flora species and two provincially rare insect species were documented. NHIC has records (or now includes WSP records) for five of the species documented: Bald Eagle, Evening Grosbeak, Alpine Woodsia, Nahanni Oak Fern, Red Dung Moss and one additional species, Smooth-margin Nitrogen Moss. The following briefly discusses these species and Figure 4-5 presents the location:

- Bald Eagle is also considered under two types of SWH: Eagle and Osprey Concentration Area (Candidate) and Bald Eagle and Osprey Nesting Habitat (Confirmed). Bald Eagle is also reported in NHIC (i.e., an EO). Therefore, in addition to already mapped habitat, the 1 km grids where NHIC records occur are also mapped as habitat (Figure 4-4).
- A Barn Swallow pair was observed nesting on a building at the existing camp and nesting is likely to continue at this location. Two individuals were also observed in camp in 2018 (NWES 2020). Barn Swallow were recently downlisted from Threatened to Special Concern on the ESA. Additionally, Barn Swallow have a residence description under SARA. To determine this SWH type, the existing habitat descriptions are adapted. The SWH is determined to be the nest plus 200 m.
- Canada Warbler and Evening Grosbeak inhabit similar habitats during the breeding season; a range of forest types, preferably wet and mixedwood types, that have a well-developed shrub layer (COSEWIC 2008, 2016; Environment Canada 2016a). Both species are insectivorous, and breeding abundance of Evening Grosbeak even appears linked to the Spruce Budworm caterpillar (COSEWIC 2016). Habitat modelling could not be completed for these species using data collected during baseline surveys for the Project. Habitat is not limiting in the RSA and is considered through mapping of the forest bird proxy species. Evening Grosbeak occurs in three EOs in NHIC data.
- Common Nighthawk has been found every year studies have occurred and detected on most ARUs. In boreal environments, Common Nighthawk nest in a variety of open or semiopen habitats, such as forest clearings, burned areas, rocky outcrops, peat bogs and marshes (COSEWIC 2018b; Sidler 2018; Brigham et al. 2020). Wetlands and open water are often used for foraging (Brigham et al. 2020). In Ontario, this species is most abundant in the boreal forest in areas of large burns (NHIC 2023). Common Nighthawk may be tolerant of areas with high sensory disturbance as this species will nest on rooftops in urban areas (Brigham et al. 2020). Foraging habitat for the species is variable and may be largely driven by the insect density instead of specific habitat type (COSEWIC 2018b). Critical habitat has not yet been identified for Common Nighthawk due to the diversity of nesting, roosting, and foraging habitats that have been reported (Environment Canada 2016b).

  According to the habitat model, Common Nighthawk abundance was greater in flatter areas with locally high proportions of sparse forest habitat and locally low proportions of riparian and mature forest habitats). Suitable Common Nighthawk habitat is abundant in the RSA and covers approximately 40% to 50% of each study area. This value does not consider existing disturbances (e.g., roads) that may provide suitable breeding habitat for this species.

- Eastern Wood Pee-wee in Ontario was listed as Special Concern under the ESA in 2014 and is listed as Special Concern under SARA. Eastern Wood-pewee is listed under Article I of the MBCA. The Eastern Wood-pewee lives in the mid-canopy layer of forest clearings and edges of deciduous and mixed forests. It is most abundant in intermediate-age mature forest stands with little understory vegetation. Eastern Wood-pewee is not widely distributed or abundant in the RSA was only captured on three ARUs during surveys.
- Olive-sided Flycatcher will nest in forested stands of either coniferous or mixed coniferous; however, due to foraging behaviour, they are associated with high contrast habitats including burned forests, logged areas, and natural forest openings such as gaps within old growth forest stands, meadows, rivers, and wetlands (COSEWIC 2018c; Altman and Sallabanks 2020). The contrasting nature of these areas often provide tall trees and snags on which this species can perch to hunt flying insects (COSEWIC 2018c; McGarigal and McComb 1995; Altman and Sallabanks 2020; Bale et al. 2020).

  According to the habitat model, Olive-sided Flycatcher abundance was greater in landscapes with lower proportions of mixed, deciduous, and coniferous forest habitats and areas with locally low proportions of sparse forest habitat (Attachment 2 – Birds Habitat Modelling Report). Variables included in the habitat model were selected based on known habitat preferences and demonstrated strong relationships with count estimates during data exploration. Suitable Olive-sided Flycatcher habitat is abundant in the RSA and covers approximately 30% to 60% of each study area.
- Peregrine Falcon was downlisted to Special Concern on the ESA in 2020. The Peregrine Falcon anatum subspecies (Ontario subspecies) is not on Schedule 1 under SARA. The FWCA provides for the protection of Peregrine Falcon nests and eggs (S. 7(1)). Peregrine Falcons nest on tall, steep cliff ledges close to large bodies of water or in urban areas near buildings where there is a year-round supply of pigeons and starlings. Recorded on four ARUs and in the RSA the suitable nesting habitat would be the cliff along Springpole Lake. As this cliff is not removed or impacted, Peregrine Falcon is not carried forward in the characterization of residual effects.
- The Rusty Blackbird breeds in habitats that are dominated by coniferous forest with isolated, low-elevation wetlands, preferring peat bogs, treed fens, swamps, sedge meadows, and marshes (COSEWIC 2017; Avery 2020; Bale et al. 2020). The species will also use shrubby riparian areas along the edges of lakes, beaver impoundments, rivers, and other watercourses in coniferous and mixed forests, as well as early successional habitats created by natural disturbances such as fire (COSEWIC 2017; Avery 2020). The Rusty Blackbird is only found in North America and breeds in the boreal region to the northern edge of the tundra in every province and territory in Canada and migrates to most of the central and eastern United States for winter. In Ontario, the breeding range is found in the Hudson Bay Lowlands and northern Boreal Shield ecozones (MECP 2021h). Habitat modelling could not be completed for this species using data collected during baseline surveys for the Project. Habitat is not limiting in the RSA and is considered through mapping of the wetland bird proxy species.
- Yellow Rail live in marshes and shallow wetlands with reeds and sedges, where they nest on the ground. The marshy areas they use have an overlying dry mat of dead vegetation that they use to make roofs for their nests. Yellow Rail is not widely distributed or abundant in the RSA was only captured on two ARUs during surveys.
- Alpine Woodsia (S2) is a small fern that grows on moist, shaded cliff faces and in Ontario is known mostly from the Lake Superior watershed. It was observed at one location within the mine site of the PDA and is now an EO in one NHIC square. The general area of occurrence corresponds to the

location of bat hibernacula area Cliff 6 and the bat maternity habitat survey locations C13 (2022) and M1 (2021). The area is also mapped as wetland 4760, and therefore this unit is considered SWH.

- Floating Marsh Marigold (S2) is a small plant found growing in sheltered shallow water in northwestern Ontario. The species was observed at one site, in a partially drained beaver pond within the footprint of the mine site of the PDA. The area is also mapped as wetland 4746, and therefore this unit is considered SWH.
- Nahanni Oak Fern (S3) is a small fern that grows on small cliffs and is known in Ontario primarily in the vicinity of Lake Superior. It was observed on small, shaded cliffs at two widely separated locations within the baseline investigation area, one in close vicinity to the preferred transmission line route on Cliff 2 (searched for bat hibernacula; wetland 2938) and along the existing transmission line route at Cliff 5 (searched for bat hibernacula; not associated with a wetland polygon); both are now EOs in NHIC.
- Northern Marsh Violet (S2S3) grows in wetlands, including fens and marshes. It is known from only about 12 sites in Ontario but is likely more widespread. The species was observed at two widely separated locations in the baseline investigation area. One was found in the flowering window during the first round of breeding bird surveys at BB-REF-F30 (wetland 4060). The other was found at Bird ARU location 53, which also was bat detector location B2 and A2 (wetland 4728). It is likely to occur elsewhere, as it is small, easily overlooked, and only readily identifiable in flower in early spring.
- Red Dung Moss (S2) is a unique species that grows only on the dung of ungulates in wet mossy habitats; all three are now EOs in NHIC. The square is mapped in as habitat and also occur in wetland 4816, 4434, 4060 (Attachment 5).
- Smooth-margin Nitrogen Moss was reported by NHIC as an EO occurring north of Zionz Lake. The square is mapped in as habitat and also occur in wetlands 5089, 5110, 5111 (Attachment 5).
- Old World Swallowtail (S2S3) and was observed in low numbers throughout the RSA. One individual was observed in the existing camp, one in wetland 1906, one the other along the existing Wenasaga Road.
- Subarctic Darner (S2S3) was observed in a lakeshore fen (wetland 2186) during 2021 field investigations, but the species is likely more widespread throughout the RSA.

4.2.2.5 Animal Movement Corridors

Animal movement corridors are elongated areas used by wildlife to move from one habitat to another. They are important to ensure genetic diversity in populations, to allow seasonal migration of animals (e.g., deer moving from summer to winter range) and to allow animals to move throughout their home range from feeding areas to cover areas. Where a confirmed or candidate specialized habitat for wildlife has been identified, animal movement corridors must also be identified.

Cervid Movement Corridors

Movement corridor must be determined when MAFAs and mineral lick habitat are mapped. Corridors typically follow riparian areas, woodlots, and areas of physical geography (ravines or ridges). Studies must be conducted at the time of year when Moose are moving to mineral licks or aquatic feeding areas (May to July), and studies should include a description of surrounding forest matrix for determination of significance. Corridors that lead Moose to MAFAs and mineral licks should remain intact and corridors with greater canopy coverage width having fewer gaps are more significant.

4.2.3 Areas of Natural and Scientific Interest

ANSIs are defined in the Provincial Policy Statement (MMAH 2020) as "areas of land and water containing natural landscapes or features that have been identified as having life science or earth science values related to protection, scientific study or education." Life science ANSIs are significant representative segments of Ontario's biodiversity and natural heritage, while earth science ANSIs are significant representative segments of bedrock, fossil and landform in Ontario. ANSIs are classified as being either provincially or regionally significant. Provincially significant life science ANSIs include the most significant and best examples of the natural heritage features in the province. No ANSIs have been designated in the baseline investigation area.

Table 4-1: Natural Heritage Information Centre Species at Risk Records

Common Name	G-Rank	S-Rank	SARA	ESA
Bald Eagle	G5	S2N, S4B	-	-
Smooth-margin Nitrogen Moss	G5	S2	-	-
Wolverine	G4	S2S3	-	THR
Woodland Caribou (Boreal population)	G5TNR	S4	THR	THR

Notes:
G-Rank refers to Global Conservation Status. S-Rank refers to Sub-national (provincial) status.
G- and S-Rank numbers:
1 Critically Imperiled.
2 Imperiled.
3 Vulnerable.
4 Apparently Secure.
5 Secure.
T = Infraspecific Taxon (trinomial); NR = Unranked; N = Non-breeding; B = Breeding; END = Endangered; THR = Threatened; SC = Special Concern.

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
Plants		
Black Ash (*Fraxinus nigra*) SARA: Not on Schedule 1 Under consideration for addition ESA: Endangered COSEWIC: Threatened COSSARO: Endangered S-Rank: S3 Source: Field Investigations Black Ash was listed as Endangered under the ESA on January 27, 2022. However, protection provisions were suspended under a Minister's Order (Environmental Registry of Ontario number 019-4278) for two years after listing. Black Ash received protection under Section 9 or 10 of the ESA as of January 22, 2024. However, a new *Ontario Regulation 6/24: Limitations on Section 9 Prohibitions* under the ESA provides conditional exemption for Black Ash in that only trees which meet certain requirements in southern municipalities will be protected under the ESA. Given that the baseline investigation area does not fall within any of the municipality or territorial districts referred to by the regulation, Black	The Black Ash grows across Ontario except the Far North. These trees love moisture, and are commonly found in northern swampy woodlands, from eastern Manitoba, throughout Ontario, and as far east as Newfoundland. The Emerald Ash Borer is currently threatening the species across its entire range. This tree is also called basket ash, as it was used by some Indigenous people to make baskets (MNRF 2021).	Confirmed – Individuals have been confirmed in the southern portion of the baseline investigation area. The distanced from the open pit centroid to the Black Ash locations are 44 km and 52 km.

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
Ash in the baseline investigation area does not receive protection under the ESA.		
Birds		
Bald Eagle (*Haliaeetus leucocephalus*) SARA: No schedule, No Status ESA: - COSEWIC: NAR COSSARO: No schedule, No Status S-Rank: S2N, S4B Source: Field Investigations, OBBA	Trees with large canopies, near water, in forested areas are generally used for nesting. Bald Eagles tend to nest in areas with low levels of human disturbance but have high levels of fidelity and typically use the same nest over successive years (Armstrong 2014). Super canopy trees are typically used.	Confirmed – Several nests documented during aerial surveys and individuals during point count surveys (Figure 4–1). NWES (2020) notes several active nests.
Bank Swallow (*Riparia riparia*) SARA: Threatened ESA: Threatened COSEWIC: Threatened COSSARO: Threatened S-Rank: S4B Source: OBBA	Bank Swallows nest in burrows in natural and human-made settings where there are vertical faces in silt and sand deposits. Many nests are on banks of rivers and lakes, but they are also found in active sand and gravel pits or former ones where the banks remain suitable (Falconer et al. 2016)	Low – Vertical faces of sand or soil were not observed in the baseline investigation area during field investigations and may be absent naturally. However, nesting may also occur in artificial aggregate pits or stockpiles, which can be associated with construction or operations. Bank Swallow could occur in the future, and measures to maintain stockpiles and reduce nesting is recommended.
Barn Swallow (*Hirundo rustica*) SARA: Threatened (has a residence description) ESA: Special Concern COSEWIC: Special Concern COSSARO: No schedule, No Status S-Rank: eBird, OBBA Source: Field Investigations, OBBA Barn Swallow was down-listed from Threatened to Special Concern in the ESA in January 2023. However, they are still listed as Threatened on SARA and have residence descriptions. Nest protection applies.	Barn Swallows have shifted largely to nesting in and on artificial structures, including buildings, bridges, and road culverts. This species prefers various open habitats for foraging including grassy fields, pastures, agricultural crops, and over open water (Heagy et al. 2014).	Confirmed – At least one pair of Barn Swallows was observed nesting on a building at the existing camp and nesting is likely to continue at this location (Figure 4–1 main shop / garage). Two individuals were also observed in camp in 2018 (NWES 2020).

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
Black Tern (*Chlidonias niger*) SARA: No schedule, No Status ESA: Special Concern COSEWIC: Not at Risk COSSARO: No schedule, No Status S-Rank: S3B Source: OBBA	Black Terns build floating nests in loose colonies in shallow marshes, especially in cattails. In winter they migrate to the coast of northern South America. The Black Tern breeds in the temperate regions of Europe, and in North America where it ranges from northern British Columbia and Alberta south to Arizona and Kansas and east to New Brunswick. In Ontario, Black Terns are found scattered throughout the province, but breed mainly in the marshes along the edges of the Great Lakes (MECP 2021b).	None – not expected to nest or overwinter in the baseline investigation area, nor to have any individual site that is particularly important as a migratory stopover location.
Bobolink (*Dolichonyx oryzivorus*) SARA: Threatened ESA: Threatened COSEWIC: Threatened COSSARO: No schedule, No Status S-Rank: S4B Source: OBBA	Bobolink nest primarily in forage crops, hayfields and associated pastures. Bobolink also occur in wet prairie, graminoid peatlands and abandoned fields dominated by tall grasses, no-till cropland, small-grain fields, reed beds and irrigated fields in arid regions. The species does not generally occupy fields of row crops such as corn, soybean and wheat, pastures in valleys with high shrub density, or intensively grazed pastures (McCracken et al. 2013).	None – No grasslands in the baseline investigation area.
Canada Warbler (*Cardellina canadensis*) SARA: Threatened ESA: Special Concern COSEWIC: Threatened COSSARO: No schedule, No Status S-Rank: S4B Source: Field Investigations, OBBA	Found in a variety of upland and wetland forest types, but it is most abundant in wet, mixed deciduous-coniferous forests with a well-developed shrub layer. Nests are typically located on or near the ground on mossy logs or roots, along stream banks or on hummocks (COSEWIC 2008). Its primary breeding range is in the Boreal Shield, extending north into the Hudson Plains and south into the Mixedwood Plains. Although the Canada Warbler breeds at low densities across its range, in Ontario, it is most abundant along the Southern Shield (MECP 2021c).	Confirmed – The species was identified incidentally at two locations: breeding bird area IMP-M in the southeastern part of the baseline investigation area (between point count locations), and in the immediate vicinity of the Project site. Both locations contain suitable breeding habitat. In 2021 Canada Warbler was recorded on 4 ARUs, and in 2022 12 ARUs. Canada Warbler seems to be a fairly rare nesting bird in the baseline investigation area but may occur at any location with appropriate habitat.
Chimney Swift (*Chaetura pelagica*)	Chimney Swifts forage aerially over virtually any habitat. Nesting and roosting take place in a dark sheltered spot with	None – Species was not documented during field studies but from the OBBA

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
SARA: Threatened ESA: Threatened COSEWIC: Threatened COSSARO: Threatened S-Rank: S4B, S4N Source: OBBA	vertical surfaces to cling to. This may include large hollow trees, chimneys, and other structures (COSEWIC 2018a). In Ontario, the species is most widely distributed in the Carolinian zone in the south and southwest of the province but has been detected throughout most of the province south of the 49th parallel. It winters in northwestern South America (MECP 2021d).	region which encompasses the Project. It is likely the occurrences are south, closer to developed areas.
Common Nighthawk (*Chordeiles minor*) SARA: Threatened ESA: Special Concern COSEWIC: Special Concern COSSARO: Special Concern S-Rank: S4B Source: Field Investigations, OBBA	In boreal environments, Common Nighthawk nest in a variety of open or semi-open habitats, such as forest clearings, burned areas, rocky outcrops, peat bogs, and marshes (COSEWIC 2018b; Sidler 2018; Brigham et al. 2020). Wetlands and open water are often used for foraging (Brigham et al. 2020). In Ontario, this species is most abundant in the boreal forest in areas of large burns (NHIC 2023). Common Nighthawk may be tolerant of areas with high sensory disturbance as this species will nest on rooftops in urban areas (Brigham et al. 2020). Foraging habitat for the species is variable and may be largely driven by the insect density instead of specific habitat type (COSEWIC 2018b; MECP 2021e). Critical habitat has not yet been identified for Common Nighthawk due to the diversity of nesting, roosting, and foraging habitats that have been reported (Environment Canada 2016b).	Confirmed – DST (2012) found a Common Nighthawk nest found by Skingle Lake in 2012. Group of 5 seen hunting south of Springpole Lake in 2018. Recorded at 7 of 8 ARU locations in 2019. In 2021 Common Nighthawk was seen at the existing camp and was recorded on 25 ARUs. In 2022 it was recorded on49 ARUs (Figure 4–1).
Eastern Whip-poor-will (*Antrostomus vociferus*) SARA: Threatened ESA: Threatened COSEWIC: Special Concern COSSARO: No schedule, No Status S-Rank: S4B Source: Field Investigations, OBBA Eastern Whip-poor-will is a registerable species under the ESA, meaning to remove habitat, Overall Benefit permits are not required. Payment into the Species	An obligate forest breeding bird dependent on open, dry deciduous or mixed forests with little or no underbrush forest. Shade, proximity to open areas for foraging, and sparse ground cover are key elements of habitat chosen. Open habitats such as open wetlands with perches, regenerating forest edges and shrubby pastures are used for foraging (COSEWIC 2009). Eastern Whip-poor-will breed in wooded habitats with open spaces such as savannah. They may also breed in	Confirmed – Eastern Whip-poor-will was documented in 2021 at 4 locations. Two of the ARUs are 600 m apart, which suggests it was one individual calling. This location is in the same area where Common Nighthawks were documented, at the intersection of the existing road and proposed transmission line corridor south of the Project site

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
Conservation fund instead of providing onsite compensation and monitoring is an option.	openings in other types of forests (MECP 2021f). Last updated in July 2021, the GHD (MECP 2017) for Eastern Whip-poor-will provides greater clarity on the area of habitat protected for a species based on the general habitat definition found in the ESA. The GHD categorizes habitat under three categories: Category 1: Nest and the area within 20 m of the nest. Category 2: The area between 20 and 170 m from the nest or centre of approximated defended territory. Category 3: The area of suitable habitat between 170 and 500 m of the nest or centre of approximated defended territory.	(Figure 4–1). Eight (8) ARUs captured calls in 2022. As Eastern Whip-poor-will was not heard on any other ARUs, but Common Nighthawk was, the results suggest that Eastern Whip-poor-will abundance is very limited in the baseline investigation area.
Eastern Wood-Pewee (*Contopus virens*) SARA: Special Concern ESA: Special Concern COSEWIC: Special Concern COSSARO: Special Concern S-Rank: S4B Source: OBBA	Eastern Wood-Pewee breeding occurs in mature to intermediate-aged forests with an open understory, often being associated with clearings and edges. Migrants may occur in a wide variety of habitats (COSEWIC 2012). The Eastern Wood-pewee is found across most of southern and central Ontario, and in northern Ontario as far north as Red Lake, Lake Nipigon and Timmins (MECP 2021g).	Confirmed – Eastern Wood-Pewee was documented at one ARU in 2021 and at two ARUs in 2022. Eastern Wood-pewee is not widely distributed or abundant in the RSA.
Evening Grosbeak (*Coccothraustes vespertinus*) SARA: Special Concern ESA: No schedule, No Status COSEWIC: Special Concern COSSARO: Special Concern S-Rank: S4B Source: OBBA	The distribution of Evening Grosbeak in Canada closely matches the limits of the boreal shield, boreal plain and mountain cordillera ecozones. Nesting habitat generally features large mature and old mixedwood forest stands with a high proportion of fir, White Spruce or Trembling Aspen, with a diversified structure and a relatively open canopy. Breeding abundance appears linked to Spruce Budworm caterpillar (COSEWIC 2016).	Confirmed – Suitable habitat is frequent in the baseline investigation area and the species was captured on six ARUs during surveys, one incidental at camp, and in three Element Occurrences (EO).. However, occurrence of Evening Grosbeak may be erratic from year to year, and the species is likely to nest in small to moderate numbers in the baseline investigation area in some years.
Least Bittern (*Ixobrychus exilis*)	Least Bitterns nest in freshwater marshes, with dense tall aquatic vegetation, interspersed with clumps of woody	None – This species' known range is south and central Ontario with one

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
SARA: Threatened ESA: Threatened COSEWIC: Threatened COSSARO: No schedule, No Status S-Rank: S4B Source: OBBA	vegetation and open water. They are most regular in marshes that exceed 5 ha in area. Smaller marshes may be used on occasion, but do not sustain populations (James 1999). Large wetlands, with other wetlands in the area and usually with little urban land use nearby (OMNRF 2016).	species occurrence near Nipigon, Ontario. This record is from the OBBA region which encompasses the baseline investigation area.
Lesser Yellowlegs (*Tringa flavipes*) SARA: Not listed ESA: Threatened COSEWIC: Threatened COSSARO: Threatened S-Rank: S4B, S4N Source: Field Investigations	Lesser Yellowlegs is a migratory shorebird with breeding grounds spanning from Alaska to northern Canada, including areas like the Yukon and western Labrador. It prefers boreal wetlands for nesting, often choosing dry ground near peatlands and marshes. During foraging, it walks in shallow water, feeding on prey from the water's surface or mud. In winter, it migrates to southern regions of the United States and much of Central and South America, frequenting various habitats like coastal salt marshes, estuaries, ponds, lakes, freshwater wetlands, and anthropogenic wetlands. In Ontario, it breeds primarily in the Taiga Shield and Hudson Plains Bird Conservation Region, as well as the northern Boreal Softwood Shield. During migration, it can be found across central and southern Ontario (COSSARO 2023).	Confirmed – Lesser Yellowlegs nest primarily in the Taiga Shield and Hudson Plains Bird Conservation Region, as well as the northern Boreal Softwood Shield. The Project is located well south of their breeding range, but harbours suitable foraging habitat for this species. Lesser Yellowlegs were recorded on ARUs, with most detections occurring from mid-May to mid-June. These were likely from birds migrating through the baseline investigation area. These birds likely stop to forage in the baseline investigation area during migration (Figure 4–1).
Olive-sided Flycatcher (*Contopus cooperi*) SARA: Threatened ESA: Special Concern COSEWIC: Special Concern COSSARO: Special Concern S-Rank: S4B Source: OBBA, Field Investigations	Olive-sided Flycatcher will nest in stands of either coniferous or mixed coniferous forest; however, due to foraging behaviour, they are associated with high contrast habitats including burned forests, logged areas, and natural forest openings such as gaps within old growth forest stands, meadows, rivers, and wetlands (COSEWIC 2018c; Altman and Sallabanks 2020). The contrasting nature of these areas often provides tall trees and snags on which this species can perch to hunt flying insects (COSEWIC 2018c; McGarigal	Confirmed – Olive-sided Flycatcher is a common nesting bird in the baseline investigation area, being observed at 40 different point count locations and captured on 28 ARUs (Figure 4–1). The species is found in open habitats where it can hunt large insects from the tops of tall trees. In the baseline investigation area, it was

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
	and McComb 1995, Altman and Sallabanks 2020; Bale et al. 2020).	frequently observed around beaver ponds and streams, and less frequently in burns and logged areas.
Peregrine Falcon	Peregrine Falcons nest on tall, steep cliff ledges close to large bodies of water or in urban areas near buildings where there is a year-round supply of pigeons and starlings.	Confirmed – Peregrine Falcons were recorded on four ARUs and in the RSA. Suitable nesting habitat would be the cliff along Springpole Lake.
Rusty Blackbird (*Euphagus carolinus*) SARA: Special Concern ESA: Not at Risk COSEWIC: Special Concern COSSARO: Special Concern S-Rank: S4B Source: OBBA, Field Investigation	The Rusty Blackbird breeds in habitats that are dominated by coniferous forest with isolated, low-elevation wetlands, preferring peat bogs, treed fens, swamps, sedge meadows, and marshes (COSEWIC 2017; Avery 2020; Bale et al. 2020). The species will also use shrubby riparian areas along the edges of lakes, beaver impoundments, rivers, and other watercourses in coniferous and mixed forests, as well as early successional habitats created by natural disturbances such as fire (COSEWIC 2017; Avery 2020). The Rusty Blackbird is only found in North America and breeds in the boreal region to the northern edge of the tundra in every province and territory in Canada and migrates to most of the central and eastern United States for winter. In Ontario, the breeding range is found in the Hudson Bay Lowlands and northern Boreal Shield ecozones (MECP 2021h).	Confirmed – Rusty Blackbirds nest within and around forested wetlands, especially around beaver ponds and streams. Although suitable habitat is abundant in the baseline investigation area, the species was only observed at two locations (Figure 4–1), both many kilometres from any proposed impact area. In addition, Rusty Blackbird were recorded at 3 ARUs in 2021 and 6 ARUs in 2022.
Short-eared Owl (*Asio flammeus*) SARA: Special Concern ESA: Threatened COSEWIC: Special Concern COSSARO: No schedule, No Status S-Rank: S2N,S4B Source: OBBA	Breeding grounds for Short-eared Owls are composed of open habitats such as grasslands, arctic tundra, taiga, bogs, marshes, old pastures and sand-sage. Short-eared Owls prefer open habitats, but it is believed that the primary factor influencing local habitat choice is food abundance (COSEWIC 2007).	Low – Field surveys and analysis of SAR Birds in ARU data revealed no detection of short-eared owls. Documented in secondary sources. The presence of diverse vegetation communities due to anthropogenic disturbances and fire might create a mosaic of habitats that the Short-eared Owl could intermittently use for

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
		breeding, foraging, or migration. Potentially suitable habitat is also in marshes, sparse treed fens, and bogs. The abundance of food resources is the principal determinant influencing local habitat selection of this species. Not expected to overwinter, in the RSA.
Yellow Rail (*Coturnicops noveboracensis*) SARA: Special Concern ESA: Special Concern COSEWIC: Special Concern COSSARO: No schedule, No Status S-Rank: S4B Source: OBBA	Yellow Rails are secretive birds and live deep in the reeds, sedges and marshes of shallow wetlands, where they nest on the ground. The marshy areas used by Yellow Rails have an overlying dry mat of dead vegetation that is used to make roofs for nests. The Yellow Rail ranges across much of central Canada and parts of the northern United States. In Ontario, it is mainly found in the Hudson Bay Lowlands region and is only found in localized marshes in southern Ontario. The breeding status of Yellow Rail in boreal regions south of the Hudson Bay Lowlands is uncertain (MECP 2021i).	Confirmed – Yellow Rail was only captured on two ARUs during surveys (ARU49 and 51). Yellow Rail nests in open wetlands dominated by sedges and with no or very shallow water during the breeding season. Potentially suitable habitat is present in the RSA at some large open fens and perhaps also in some marshes along watercourses. The species was not observed during field investigations, but the breeding bird survey protocol does not adequately sample this species that calls primarily at night and populations in any given area may fluctuate widely from year to year. Yellow Rail is generally a rare species.
Mammals		
Caribou (Boreal population) (*Rangifer tarandus* pop. 14) SARA: Threatened ESA: Threatened COSEWIC: Threatened COSSARO: Threatened S-Rank: S4 Source: Field Investigations	Caribou habitat in the boreal forest is dynamic in space and time. Much of the forest is naturally suitable or regenerating Caribou at any one time, whilst other areas are not suitable cover types, but Caribou need and use the entire landscape over time as habitat changes. Disturbances from fires, blowdown, insects and human disturbances will alter the amount and configuration of habitat. There is also great	Confirmed – See Section 3.3.

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
	ecological variation in Caribou habitat availability across the province, ranging from upland fire-dependent forests in the northwest to extensive lowland forests in the northeast where fire is much less frequent. At the broad landscape scale, Caribou require large, undisturbed areas of old or mature conifer upland forest and lowlands dominated by Jack Pine and/or Black Spruce. These areas allow Caribou to spatially separate themselves from areas that support higher densities of Moose, White-tailed Deer, Grey Wolf, and Black Bear, which tend to be associated with younger mixed or deciduous forest. At local scales, Caribou seasonally select specific habitat features and areas that support successful reproduction and calf rearing, provide summer and/or winter forage, and/or facilitate movement between discrete areas of use. Ontario has a general habitat description for forest-dwelling Woodland Caribou (MECP 2021a) which partitions Woodland Caribou range into three categories with varying levels of protection under the ESA: Category 1: high use areas of repeated and intensive use including nursery areas, winter use areas and travel corridors connecting these seasonal high use areas. Category 2: seasonal ranges that encompass most of the current Woodland Caribou distribution during all seasons within a range. Category 3: the remaining areas within a range that support Woodland Caribou indirectly by maintaining an overall refuge function.	
Little Brown Myotis (*Myotis lucifugus*) SARA: Endangered ESA: Endangered COSEWIC: Endangered COSSARO: Endangered S-Rank: S3	The Little Brown Myotis is widespread throughout the southern half of Canada and is found as far north as Moose Factory in Ontario. It is associated with humans, often forming nursery colonies in buildings, attics and other man-made structures. Little Brown Myotis forage over water where their diet consists of aquatic	Confirmed – see Figure 4–2.

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
Source: Field Investigations, DST 2012, NWES 2020	insects, mainly midges, mosquitoes, mayflies and caddisflies. They also feed over forest trails, cliff faces, meadows and farmland where they consume a wide variety of insects, from moths and beetles to crane flies (MECP 2021j). The species roosts in tree cavities, including small spaces or crevices found in loose bark, hollow trees, rock faces and human structures such as attics, walls and bat boxes. It hibernates in caves and abandoned mines during the winter months. It typically forages over water (MECP 2021j). Maternity roosts are primarily live deciduous trees, and males, juveniles and non-reproductive females can be found in dead trees; on average all trees are over 20 cm DBH (Humphrey and Fotherby 2019). Maternity sites typically have sufficient protection from predators, an abundance of roosting locations, and adequate solar exposure (Humphrey and Fotherby 2019). The Federal Recovery Strategy confirms critical habitat (i.e., hibernacula have been identified) for Little Brown Myotis, Northern Myotis, and/or Tri-colored Bat in Ontario. Critical habitat for one or more of these species occurs within a 50 by 50 km standardized UTM grid squares over Dobie, Ontario. This standardized national grid system indicates the general geographic area containing critical habitat.	
Northern Myotis (*Myotis septentrionalis*) SARA: Endangered ESA: Endangered COSEWIC: Endangered COSSARO: No schedule, No Status S-Rank: S3 Source: Field Investigations, DST 2012	Northern Myotis roosts in canopies of deciduous trees, including small spaces or crevices found in loose bark, and hollow trees. Rock faces and human structures can also be used. The species hibernates in caves and abandoned mines during the winter months. It typically forages over water (Humphrey and Fotherby 2019). Maternity sites typically have sufficient protection from predators, an abundance of roosting locations, and adequate solar exposure (Humphrey and Fotherby 2019). Northern Myotis is one of the less common species found to hibernate in	Confirmed – see Figure 4–2.

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
	Ontario. This species is closely associated with woodlands and uses trees as maternity sites. The Federal Recovery Strategy (ECCC 2018) confirms critical habitat (i.e., hibernacula have been identified) for Little Brown Myotis, Northern Myotis, and/or Tri-colored Bat in Ontario. Critical habitat for one or more of these species occurs within a 50 by 50 km standardized UTM grid squares over Dobie, ON. This standardized national grid system indicates the general geographic area containing critical habitat.	
Tricolored Bat (Perimyotis subflavus) SARA: Endangered ESA: Endangered COSEWIC: Endangered COSSARO: Endangered S-Rank: S3? Source: None	Tricolored bat roosts in dead leaf clusters in the shape of an umbrella, dense clusters of live foliage, Arboreal lichens or epiphytes and buildings (Humphrey and Fotherby 2019). Maternity sites typically have sufficient protection from predators, an abundance of roosting locations, and adequate solar exposure (Humphrey and Fotherby 2019). Within treed habitats, Tricolored Bat primarily roosts in tree foliage (mainly within oak leaves). Leaf roosts are shaped like umbrellas with a "roof" and a hollow core where bats rest. Studies have shown that oak leaves are a preferred roost site. Maple leaves are also selected, although less commonly. It is thought that Tri-colored Bat may prefer roost trees in more open woodlands, as opposed to deep woods. Roosts in tree cavity are used less frequently than Myotis species. The Federal Recovery Strategy (ECCC 2018) confirms critical habitat (i.e., hibernacula have been identified) for Little Brown Myotis, Northern Myotis, and/or Tri-colored Bat in Ontario. Critical habitat for one or more of these species occurs within a 50 by 50 km standardized UTM grid squares over Dobie, ON. This standardized national grid system indicates the general geographic area containing critical habitat.	None – Tricolored Bat was not identified in the baseline investigation area. Published results from a comprehensive bat monitoring program across northern Ontario (Layng et al. 2019) have led to speculation that Tricolored Bats may occur farther west than originally thought. However, conclusions from this study are based on five of over 7,000 bat recordings and all five recordings gave different results when subjected to two different classifiers. Additionally, capture surveys would be required to verify presence of the species before any confirmation can be made. Wood obtained over 25,000 bat recordings in June, and over 10,000 recordings in August/September within and around the baseline investigation area. No Tricolored Bat was identified by automated or manual methods in either survey period providing

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
		strong evidence that this species does not occur in the baseline investigation area.
Wolverine (*Gulo gulo*) SARA: Special Concern ESA: Threatened COSEWIC: Special Concern COSSARO: Threatened S-Rank: S2S3 Source: Field Investigations	Wolverines usually live alone and roam across large territories that vary from 500 to 1,500 m^2 or more. Females build dens under snow-covered boulders, fallen logs, and occasionally in snow drifts. Researchers are still learning about the ecology and habitat needs of the Wolverine in Ontario (MECP 2021k).	Confirmed – see Figure 3. Wolverine tracks were recorded along the edges of lakes and streams in multiple locations. No individuals were seen and no den sites were found, but it is believed Wolverine are using the baseline investigation area in some form to carry out life processes. See Section 3.4.
Invertebrates		
Monarch (*Danaus plexippus*) SARA: Endangered ESA: Special Concern COSEWIC: Endangered COSSARO: Special Concern S-Rank: S2N, S4B Source: Field Investigations	Monarch is very widely distributed across North America and found in a wide variety of habitats. Populations fluctuate dramatically but have been generally declining, likely due to habitat destruction on the hibernation grounds in Mexico, as well as pesticide use and other factors on the vast breeding grounds. Monarchs require milkweeds (*Asclepias* sp.) to lay their eggs on and will use a variety of other flowers for adult food (MECP 2021l). In February, Monarchs come out of hibernation and find a mate in the Oyamel Fir forests found in central Mexico; generation zero. They migrate north to the southern states to lay eggs on milkweed plants around March and April; first generation. The butterflies that result from those eggs continue to fly further north and lay eggs in May and June; second generation. The third generation will be born in July and August. The generation which reproduces dies after the egg laying stage except for the fourth generation. The fourth generation is born in September and October and does not die after two to six weeks but migrates south back to Mexico and will live for six to eight months until it is time to start the whole process	Low (breeding) – One individual observed at the existing camp. Milkweed not observed in baseline investigation area.

Table 4-2: Species at Risk Habitat Assessment and Potential Occurrence

Species Name, Status (SARA, ESA, S-Rank) and Data Source	Preferred Habitat	Potential for Habitat/Species Occurrence in Baseline Investigation Area
	again. Sometimes in the southern United States the Monarchs migrating south for the winter will breed again, creating a fifth generation which will continue south (Journey North 2021). Monarch butterfly is provincially listed as S2N, S4B, which means non-breeding Monarchs in the province are imperiled while breeding Monarchs are apparently secure. Monarch is also listed as a Special Concern in the ESA. Monarchs are frequently reported between May and September in Ontario (Cavasin 2016), which can encompass all life stages and breeding and non-breeding individuals.	

Notes:

S Rank	Sub-national (provincial).
1	Critically Imperiled.
2	Imperiled.
3	Vulnerable.
4	Apparently Secure.
5	Secure.
T	Infraspecific Taxon (trinomial).
NR	Unranked.
N	Non-breeding.
B	Breeding.

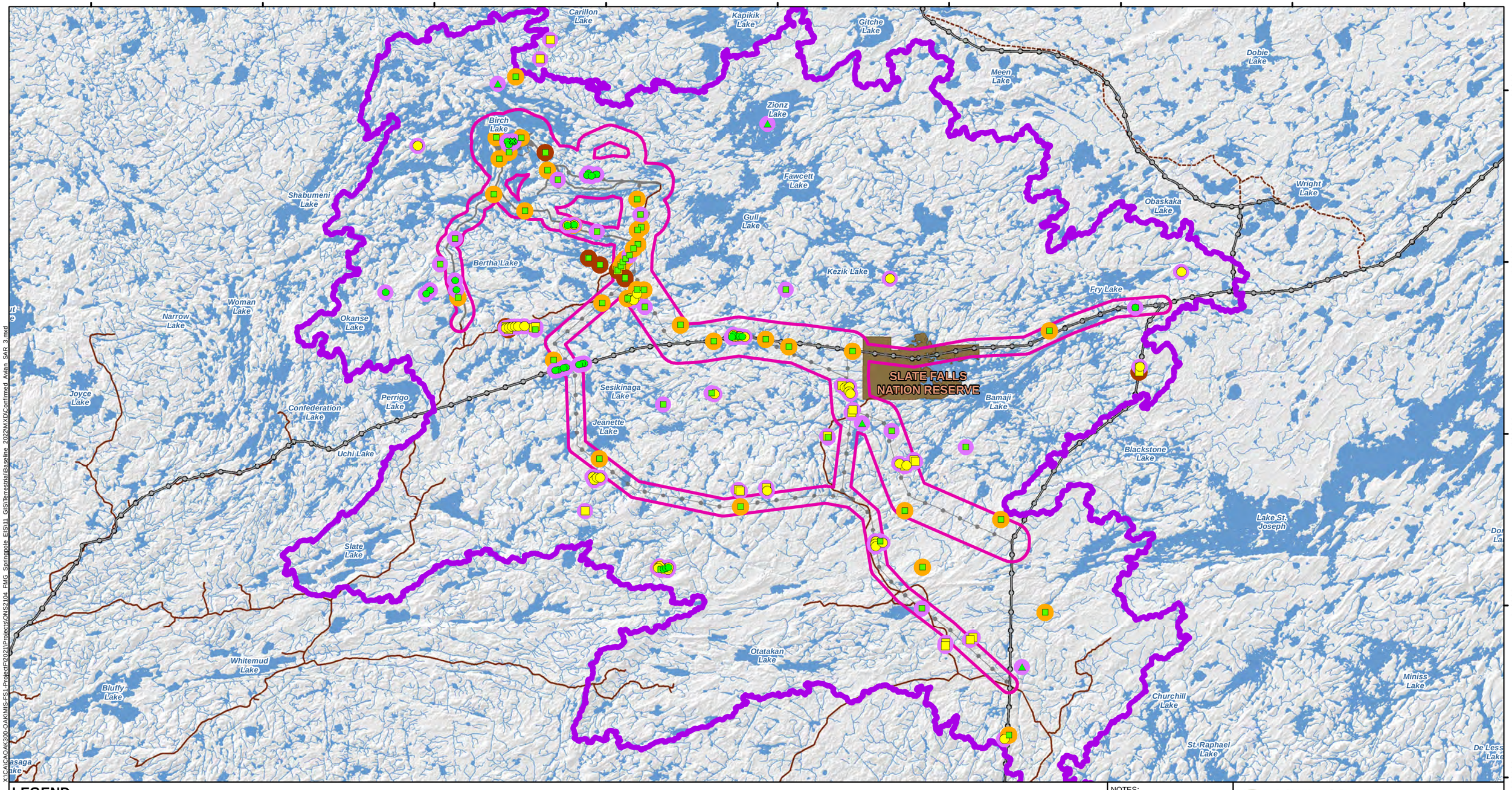
Table 4-3: Summary of Significant Wetlands Impacted by the Project

Wetland ID	Dominant Wetland Type in Wetland Unit	Total Wetland Area (ha)
1948	Coniferous Swamp	6,666.44
2122	Coniferous Swamp	3,211.10
2186	Coniferous Swamp	369.77
3279	Coniferous Swamp	1,160.02
3492	Coniferous Swamp	1,067.38
3500	Coniferous Swamp	703.70
3983	Coniferous Swamp	173.48
4329	Coniferous Swamp	359.20
4488	Coniferous Swamp	4,255.63
4653	Coniferous Swamp	532.42
4728	Coniferous Swamp	100.33
4823	Coniferous Swamp	912.20

Table 4-4: Natural Heritage Information Centre Significant Wildlife Habitat Query

NHIC Result	SWH Type
Colonial waterbird nesting area	Colonially nesting bird breeding habitat: ground
Mixed wader nesting colony	Colonially nesting bird breeding habitat: tree/shrub

Note:
Queried November 11, 2021.



X:\CA\CAO\AK300-OAK\MIS-FS1-Project\P2021\Projects\ONS2104_FMG_Springpole_EIS\11_GIS\Terrestrial\Baseline_2022\MXD\Confirmed_Avian_SAR_3.mxd

LEGEND

- Proposed Mine Feature
- Species at Risk Bird Local Study Area
- Species at Risk Bird Regional Study Area
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve

Bird Species at Risk (SAR) Observation/Detection Locations (2022) by Survey Type

- Automated Recording Unit (ARU)
- Breeding Bird
- Incidental
- Waterfowl

Bird Species at Risk (SAR) Observation/Detection Locations (2021) by Survey Type

- Automated Recording Unit (ARU)
- Breeding Bird

Species Observed/Detected

- Eastern Whip-poor-will
- Lesser Yellowlegs
- Other SAR

NOTES:
- Topographic information extracted from LIO, MNRF.

0 10 20 40 60 80 100 Kilometres

Datum: NAD83
Projection: UTM Zone 15N

N W E S

FIRST MINING GOLD

WSP

SPRINGPOLE GOLD PROJECT

Confirmed Avian SAR

PROJECT N°: ONS2104 | **FIGURE: 4-1**

SCALE: 1:420,000 | DATE: October 2024

500000 520000 540000 560000 580000 600000 620000 640000 660000

5700000 5680000 5660000 5640000 5620000

Carillon Lake
Kapikik Lake
Gitche Lake
Dobie Lake
Meen Lake
Zionz Lake
Birch Lake
Fawcett Lake
Wright Lake
Shabumeni Lake
Obaskaka Lake
Gull Lake
Bertha Lake
Kezik Lake
Fry Lake
Woman Lake
Narrow Lake
Okanse Lake
SLATE FALLS NATION RESERVE
Joyce Lake
Sesikinaga Lake
Bamaji Lake
Perrigo Lake
Confederation Lake
Jeanette Lake
Uchi Lake
Blackstone Lake
Lake St. Joseph
Slate Lake
Whitemud Lake
Otatakan Lake
Bluffy Lake
Miniss Lake
Churchill Lake
St. Raphael Lake

X:\CA\CAOAK300-OAK\MIS-FS1-Project\P2021\Projects\ONS2104 FMG Springpole EIS\11 GIS\Terrestrial\Baseline 2022\MXD\Confirmed Bat SAR 2.mxd

LEGEND

- Proposed Mine Feature
- Species at Risk Bat Local Study Area
- Species at Risk Bat Regional Study Area
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve

Bat Species at Risk (SAR) Observation/Detection Locations (2023) by Survey Type
- Hibernacula
- Maternity Habitat

Bat Species at Risk (SAR) Observation/Detection Locations (2022) by Survey Type
- Hibernacula
- Maternity Habitat

Bat Species at Risk (SAR) Observation/Detection Locations (2021) by Survey Type
- Hibernacula
- Maternity Habitat

Confirmed SAR Bat Detections (2021 to 2023)
- Little Brown Myotis and Northern Myotis
- Little Brown Myotis
- Little Brown Myotis and Unknown Myotis
- Unknown Myotis

NOTES:
- Topographic information extracted from LIO, MNRF.

Datum: NAD83
Projection: UTM Zone 15N

0 10 20 40 60 80 100 Kilometres

FIRST MINING GOLD

WSP

SPRINGPOLE GOLD PROJECT

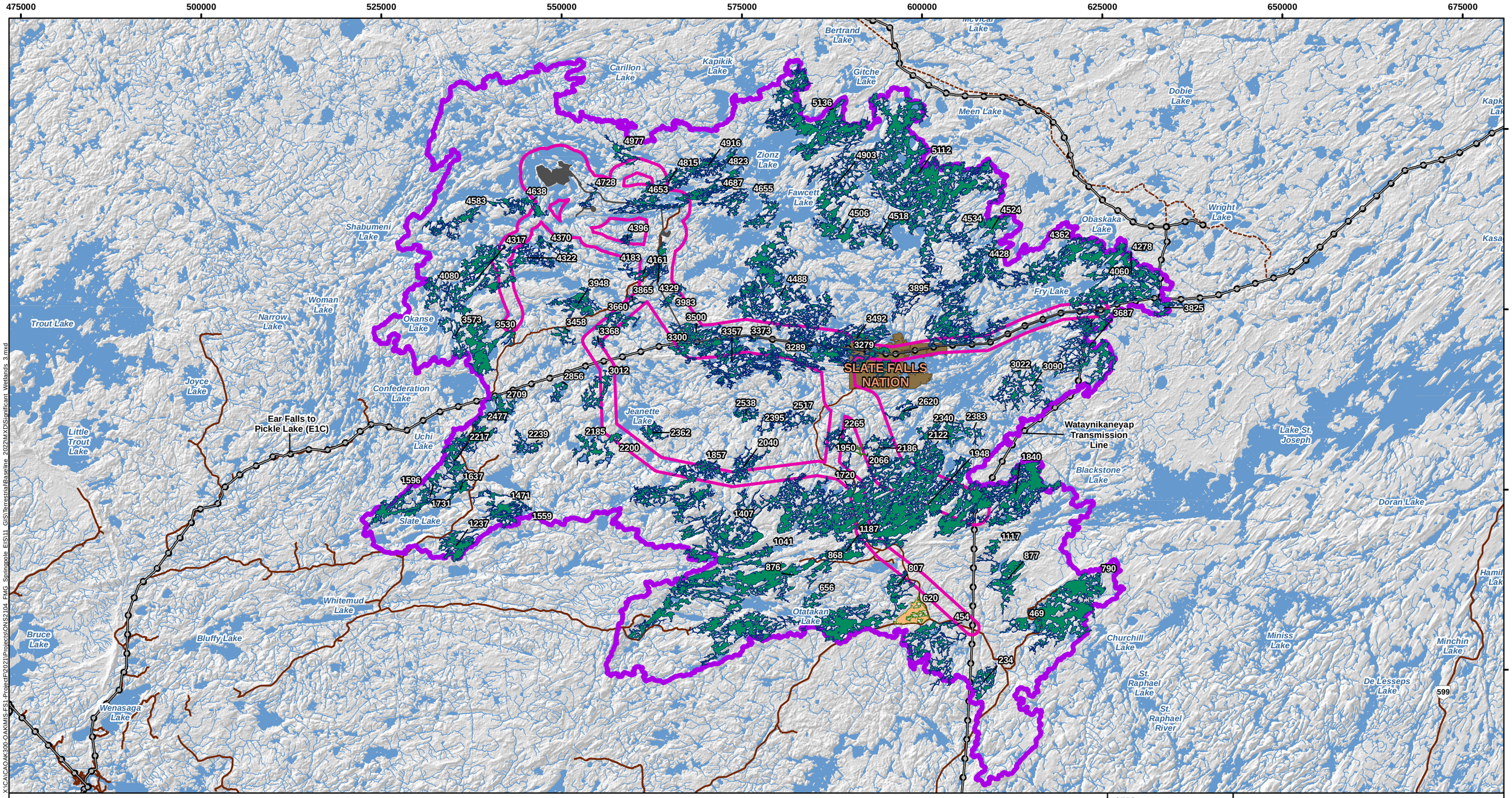
Confirmed Bat SAR

PROJECT N^{o}: ONS2104

FIGURE: 4-2

SCALE: 1:420,000

DATE: October 2024



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LEGEND

- Proposed Mine Features
- Wetland Local Study Area
- Wetland Regional Study Area
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

Identified Significant Wetlands, by dominant type (labelled with wetland ID)

- Coniferous Swamp
- Bog and Fen
- Marsh

0 10 20 40 60 80 100 Kilometres

NOTES:
- Topographic information extracted from LIO, NDMNRF.

Datum: NAD83
Projection: UTM Zone 15N

First Mining Gold

WSP

SPRINGPOLE GOLD PROJECT

Significant Wetlands

PROJECT N°: ONS2104

FIGURE: 4-3

SCALE: 1:500,000

DATE: October 2024

475000 500000 525000 550000 575000 600000 625000 650000 675000

5700000 5675000 5650000 5625000

Bertrand Lake
McVicar Lake
Carillon Lake
Kapikik Lake
Gitche Lake
Dobie Lake
Meen Lake
Zionz Lake
Fawcett Lake
Wright Lake
Obaskaka Lake
Shabumeni Lake
Fry Lake
Woman Lake
Narrow Lake
Trout Lake
Okanse Lake
SLATE FALLS NATION
Joyce Lake
Confederation Lake
Jeanette Lake
Ear Falls to Pickle Lake (E1C)
Little Trout Lake
Uchi Lake
Wataynikaneyap Transmission Line
Lake St. Joseph
Blackstone Lake
Slate Lake
Doran Lake
Whitemud Lake
Otatakan Lake
Bruce Lake
Bluffy Lake
Churchill Lake
Miniss Lake
Minchin Lake
St. Raphael Lake
De Lesseps Lake
599
St. Raphael River
Wenasaga Lake

X:\CA\CAOAK300-OAK\MIS-FS1-ProjectP2021\Projects\ONS2104 FMG Springpole EIS\11 GIS\Terrestrial\Baseline 2022\MXD\Confirmed Significant Wildlife Habitat 3.mxd

LEGEND

- Proposed Mine Features
- Project Development Area
- Wildlife Local Study Area
- Wildlife Regional Study Area
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

Observations

- Bonaparte's Gull Colony (DST, 2012)
- Bonaparte's Gull Nests (Wood, 2021)

Significant Wildlife Habitat within the Wildlife Regional Study Area

- Aquatic Feeding Habitat
- Colonially Nesting Bird Breeding Habitat: Ground (NHIC Square)
- Colonially Nesting Bird Breeding Habitat: Tree/Shrub (NHIC Square)
- Eagle Habitat
- Osprey Habitat
- Marsh Bird Breeding Habitat
- Bat Maternity Colony Habitat
- Bat Hibernaculum
- Waterfowl Stopover and Staging
- Wild Rice Stand

NOTES:
- Topographic information extracted from LIO, MNRF.

Datum: NAD83
Projection: UTM Zone 15N

0 10 20 40 60 80 100 Kilometres

FIRST MINING GOLD

WSP

SPRINGPOLE GOLD PROJECT

Significant Wildlife Habitat

PROJECT N°: ONS2104 | **FIGURE: 4-4**

SCALE: 1:500,000 | DATE: October 2024

475000 500000 525000 550000 575000 600000 625000 650000 675000

5700000 5675000 5650000 5625000

Bertrand Lake
McVicar Lake
Carillon Lake
Kapikik Lake
Gitche Lake
Dobie Lake
Meen Lake
Zionz Lake
Fawcett Lake
Wright Lake
Obaskaka Lake
Shabumeni Lake
Fry Lake
Woman Lake
Narrow Lake
Okanse Lake
Trout Lake
SLATE FALLS NATION
Joyce Lake
Confederation Lake
Jeanette Lake
Ear Falls to Pickle Lake (E1C)
Uchi Lake
Little Trout Lake
Wataynikaneyap Transmission Line
Lake St. Joseph
Blackstone Lake
Doran Lake
Slate Lake
Whitemud Lake
Otatakan Lake
Bruce Lake
Bluffy Lake
Churchill Lake
Miniss Lake
Minchin Lake
St. Raphael Lake
De Lesseps Lake
599
St. Raphael River
Wenasaga Lake

X:\CA\CAOAK300-OAK\MIS-FS1-Project\P2021Projects\ONS2104_FMG_Springpole_EIS\11_GIS\Terrestrial\Baseline_2022\MXD\Species_of_ConservationConcern_2.mxd

LEGEND

- Proposed Mine Features
- Project Development Area
- Wildlife Regional Study Area
- Wildlife Local Study Area
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

Species of Conservation Concern Observations/Habitat

Birds

- Barn Swallow (BBS, WSP 2021)
- Barn Swallow (BBS, WSP 2022)
- Canada Warbler (ARU, 2021)
- Canada Warbler (ARU, 2022)
- Canada Warbler (BBS, WSP 2021)
- Common Nighthawk (ARU, WSP 2021)
- Common Nighthawk (ARU, WSP 2022)
- Eastern Wood-pewee (Bird ARU, WSP 2021)
- Eastern Wood-pewee (Bird ARU, WSP 2022)
- Evening Grosbeak (ARU, 2021)
- Evening Grosbeak (ARU, 2022)
- Evening Grosbeak (Incidental, WSP 2022)
- Olive-sided Flycatcher (ARU, WSP 2021)
- Olive-sided Flycatcher (ARU, WSP 2022)
- Olive-sided Flycatcher (BBS, WSP 2021)
- Olive-sided Flycatcher (BBS, WSP 2022)
- Peregrine Falcon (ARU, WSP 2022)
- Rusty Blackbird (ARU, WSP 2021)
- Rusty Blackbird (ARU, WSP 2022)
- Rusty Blackbird (BBS, WSP 2021)
- Rusty Blackbird (Incidental, WSP 2022)
- Yellow Rail (ARU, WSP 2022)
- Barn Swallow Habitat
- Evening Grosbeak Habitat

Flora

- Alpine Woodsia Habitat
- Nahanni Oak Fern Habitat
- Red Dung Moss Habitat
- Smooth Margin Nitrogen Moss Habitat
- Northern Marsh Violet Habitat
- Yellow Dung Moss / Cruet Dung Moss
- Small Yellow Pond Lilly
- Floating Marsh Marigold Habitat

Insects

- Old World Swallowtail
- Subarctic Darner
- Old World Swallowtail Habitat
- Subarctic Darner Habitat

NOTES:
- Topographic information extracted from LIO, MNRF.
- BBS = Breeding Bird Survey and ARU = Bird Automatic Recording Unit

Datum: NAD83
Projection: UTM Zone 15N

0 10 20 40 60 80 100 Kilometres

N W E S

First Mining Gold

WSP

SPRINGPOLE GOLD PROJECT

Species of Conservation Concern

PROJECT N°: ONS2104 | **FIGURE: 4-5**

SCALE: 1:500,000 | DATE: October 2024

5.0 CLOSING

This Terrestrial Resources 2023 Baseline Report was prepared for FMG by WSP. The quality of information, conclusions and scheduling estimates contained here is consistent with the level of effort involved in WSP's services and based on: 1) information available at the time of preparation; 2) data supplied by outside sources; and 3) the assumptions, conditions and qualifications set forth in this report.

Yours truly,

WSP Canada Inc.

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Attachment 1
Standard Operating Procedures for Aerial Surveys

Survey Protocol: Woodland Caribou Abundance and mid-Winter Calf Recruitment

BACKGROUND

Estimation of calf recruitment provides valuable insight into population state. Assuming annual adult survival is >85%, populations are likely growing if the proportion of calves/adult in winter is >15%, stable if 12-15%, or declining if <10% (Bergerud 1974, Stuart-Smith *et al.* 1997, Dzus 2001, Arsenault 2003). The distribution of caribou relative to other ungulate species and wolves, provides data to assess relative predation-risk.

SURVEY DESIGN

Survey is conducted by helicopter using a systematic line-transect design (3 km transect interval oriented in East-West direction). Searching is conducted at ±200m above ground height at a speed comfortable to observe/detect caribou and sign (±90 km/hr, variable). A minimum of 20cm snow cover is necessary for contrast to improve detectability. Ideally, the survey is conducted 2 or 3 days following a significant snow event to detect fresh sign (tracks, cratering) and to easily distinguish from old sign. If telemetry relocation is used, the helicopter can stray off of transect to locate the collar, then return to the transect to complete the systematic search of the survey area.

Caribou calf recruitment survey effort occurs in early winter (January through mid-February) to minimize effects of stress to individuals that are likely to occur if conducted in late winter. The recruitment survey, can be integrated with a genetic CMR effort (see Caribou Genetic CMR protocol). Prior to initiating the survey (if telemetry data are available for the population):

- Determine most recent locations of all telemetry collared caribou within the survey study area
- Obtain collar VHF frequencies for relocation during the survey effort

SPECIES DISTRIBUTION

Record all observed ungulate species, wolves and wolverine. Record all track sets encountered that can be confirmed to be caribou, moose, white-tailed deer, elk, wolf or wolverine. Note whether the tracks are **fresh** (since last snowfall) or **old**.

CARIBOU CLASSIFICATION

Classify all observed caribou (bull, cow, calf or unknown) and **photograph all or a portion of the group** for field verification (verify immediately following the pursuit event). **DO NOT overstress the animals. Abandon the classification if pursuit will extend beyond 2 minutes of caribou running.** Classification is optimal if the helicopter gently eases into

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position to observe the group, and if observation is timed to observe animals in more open habitat patches. The helicopter can be used to direct the group toward an open patch of habitat.

The objective is to obtain an estimate of winter calf recruitment (calves/adult and calves/cow) into the study population, to estimate population structure (bulls, cows, calves), as well as to collect data on distribution of caribou relative to other ungulates and wolves.

Rangifer is the only genus in Cervidae in which both sexes are antlered (Nowak 1999). Antler configuration is extremely variable and range in size. Observers will need to take care when sexing adults because of antler cast timing. **Most mature bulls are unlikely to have antlers during a winter calf recruitment survey**. Most mature females have antlers, but some don't. Annual antler growth is about 6 months out of phase between sexes, but there is considerable overlap in chronology of antler shedding (Banfield 1987, Fuller & Keith 1980):

- mature bulls cast antlers in late Nov/Dec.
- young adults cast in March
- bred cows cast in May
- breeding age bulls begin antler growth in March
- breeding cows begin antler growth in July



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CALF ID



Calves can develop short spikes.



Calf smaller than cow, but approaching yearling size.

COW ID







Cow antlers are relatively small and spindly and are occasionally absent, particularly for those younger than 4 years (Bergerud 1976).

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BULL ID



Bulls can develop back-sweeping beams with semi-palmate terminal branches, flattened brow tines projecting vertically over the snout (generally one brow tine is dominant), and lateral arcing bez (second) tines in adults (Banfield 1987, Whitaker 1996, Arsenault 2003).

Mature bulls generally have cast their antlers by January, so generally won't have antlers during the calf recruitment survey





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Distinguishing Sex

Only the white rump without a dark vulva patch, or the presence of a penis sheath should be used for positive identification of sex.

adapted from: http://www.adfg.alaska.gov/static/hunting/caribouhunting/pdfs/caribou_gender_id.pdf



Young Bull - you can just make out a penis sheath.



Bull- large antlers

Cow- wide white patch with dark anal and vulva spots.



Young bull - narrow rump patch, no vulva.

Cows- vulva spots.

Bulls





On young bulls (1-3 yrs) the sex organs are less apparent. Antlers are well developed in mature bulls. Young bulls typically have smaller antlers with relatively small brow tines/shovels, and often cannot be distinguished from cows by the antlers alone.

Cows

Antlers are relatively small in relationship to body size.



Look closely as the tail can obscure the anal opening.



The vaginal opening is apparent when carefully viewed from the rear. The white rump patch is wider on cows than bulls. The antlers of cows are smaller than those of most bulls, with the exeption of many yearling bulls and a small percentage of 2 year old bulls.

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EQUIPMENT

- Winter PPE
- Data sheets + pencils
- Field map with numbered transects overlaid and start/end UTM coordinates for each transect
- GPS (to record sample site location and aerial locations of sign and sightings)
- Camera (to photograph groups of observed caribou and for field documentation)
- Field radios for group communication during search effort
- Remote winter survival kit
- Satellite phone
- Telemetry receiver + external antennae if doing telemetry relocations
- Extra batteries

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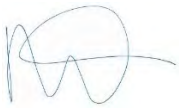
Prepared By:



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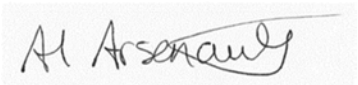

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Data Sheet – Woodland Caribou Recruitment / Ungulate-Wolf Distribution Survey / CMR

CARIBOU RANGE:_____ DD/Month/YY:_____2018 AM / PM PAGE ____ of ____

TEAM:

UTM (NAD 83)	WPT #	SPECIES	Observed Animals						Sign		Site #	# Samples	VHF Freq	Comments (Habitat Type, photos)
			B	C	cc	yrlg	unk	Total	# Track Sets	Craters (Y/N)				
E N														
E N														
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Attachment 2
Species Lists

Legend

*=Introduced Species
S rank (provincial)= NatureServe Subnational Conservation Status Definitions. The term "subnational" refers to state or province-level jurisdictions (e.g., California, Ontario).
G rank (global)= NatureServe Global Conservation Status Definitions

RANK	DEFINITION
GX **SX**	**Presumed Extirpated**—Species or ecosystem is believed to be extirpated from the jurisdiction (i.e., nation, or state/province). Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered. [equivalent to "Regionally Extinct" in IUCN Red List terminology]
GH **SH**	**Possibly Extirpated** – Known from only historical records but still some hope of rediscovery. There is evidence that the species or ecosystem may no longer be present in the jurisdiction, but not enough to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching and/or some evidence of significant habitat loss or degradation; (2) that a species or ecosystem has been searched for unsuccessfully, but not thoroughly enough to presume that it is no longer present in the jurisdiction.
G1 **S1**	**Critically Imperiled** At very high risk of extirpation in the jurisdiction due to very restricted range, very few populations or occurrences, very steep declines, severe threats, or other factors.
G2 **S2**	**Imperiled** — At high risk of extirpation in the jurisdiction due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors.
G3 **S3**	**Vulnerable** — At moderate risk of extirpation in the jurisdiction due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.
G4 **S4**	**Apparently Secure** — At a fairly low risk of extirpation in the jurisdiction due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors.
G5 **S5**	**Secure** — At very low or no risk of extirpation in the jurisdiction due to a very extensive range, abundant populations or occurrences, with little to no concern from declines or threats.
G#G# **S#S#**	**Range Rank —** A numeric range rank (e.g., G2G3, G1G3) is used to indicate uncertainty about the exact status of a taxon or ecosystem type. Ranges cannot skip more than two ranks (e.g., GU should be used rather than G1G4).
GU **SU**	**Unrankable —** Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. NOTE: Whenever possible (when the range of uncertainty is three consecutive ranks or less), a range rank (e.g., G2G3) should be used to delineate the limits (range) of uncertainty.
GNR **SNR**	**Unranked —** Global rank not yet assessed.
GNA **SNA**	**Not Applicable —** A conservation status rank is not applicable because the species or ecosystem is not a suitable target for conservation activities. A global conservation status rank may be not applicable for several reasons, related to its relevance as a conservation target. For species, typically the species is a

	hybrid without conservation value, or of domestic origin. For ecosystems, the type is typically non-native (e.g, many ruderal vegetation types), agricultural (e.g. pasture, orchard) or developed (e.g. lawn, garden, golf course).
?	**Inexact Numeric Rank -** Denotes inexact numeric rank; this should not be used with any of the Variant Global Conservation Status Ranks or GX or GH.
Q	**Questionable taxonomy that may reduce conservation priority -** Distinctiveness of this entity as a taxon or ecosystem type at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, or inclusion of this taxon or type in another taxon or type, with the resulting taxon having a lower-priority (numerically higher) conservation status rank. The "Q" modifier is only used at a global level and not at a national or subnational level.
C	**Captive or Cultivated Only -** Taxon or ecosystem at present is presumed or possibly extinct or eliminated in the wild across their entire native range but is extant in cultivation, in captivity, as a naturalized population (or populations) outside their native range, or as a reintroduced population or ecosystem restoration, not yet established. The "C" modifier is only used at a global level and not at a national or subnational level. Possible ranks are GXC or GHC. This is equivalent to "Extinct in the Wild (EW) in IUCN's Red List terminology (IUCN 2001).

MBCA=Migratory Birds Convention Act, 1994 (individual protection)

FWCA=Fish and Wildlife Conservation Act, 1997 (individual protection)

- SCH. 3=Game Bird
- SCH. 7=Specially Protected Raptors
- SCH. 8=Specially Protected Birds

COSEWIC= The Committee on the Status of Endangered Wildlife in Canada

ESA= Endangered Species Act, 2007, S.O. 2007, c. 6

SARA Schedule 1= Species at Risk Act (SC 2002, c. 29)

EXT	**Extinct** - A species shall be classified as an extinct species if it no longer lives anywhere in the world.
EXP	**Extirpated** - A species shall be classified as an extirpated species if it lives somewhere in the world, lived at one time in the wild in Ontario, but no longer lives in the wild in Ontario.
END	**Endangered** - A species shall be classified as an endangered species if it lives in the wild in Ontario but is facing imminent extinction or extirpation.
THR	**Threatened** - A species shall be classified as a threatened species if it lives in the wild in Ontario, is not endangered, but is likely to become endangered if steps are not taken to address factors threatening to lead to its extinction or extirpation.
SC	**Special Concern** - A species shall be classified as a special concern species if it lives in the wild in Ontario, is not endangered or threatened, but may become threatened or endangered because of a combination of biological characteristics and identified threats.

Coefficient of Wetness = indicates the plant's soil moisture tolerance
Coefficient of Conservatism = numeric values assigned to plant species to indicate their sensitivity to anthropogenic disturbance

Ontario Breeding Bird Atlas. 2001. Guide for Participants. Atlas Management Board, Federation of Ontario Naturalists, Don Mills.

CODE	BREEDING EVIDENCE
	OBSERVED
X	Species observed in its breeding season (no evidence of breeding). Presumed migrants should not be recorded.
	POSSIBLE BREEDING
H	Species observed in its breeding season in suitable nesting habitat.
S	Singing male present, or breeding calls heard, in its breeding season in suitable nesting habitat.
	PROBABLE BREEDING
P	Pair observed in their breeding season in suitable nesting habitat.
T	Permanent territory presumed through registration of territorial song on at least 2 days, a week or more apart, at the same place.
D	Courtship or display between a male and a female or 2 males, including courtship feeding or copulation.
V	Visiting probable nest site.
A	Agitated behaviour or anxiety calls of an adult.
B	Brood patch on adult female or cloacal protuberance on adult male.
N	Nest-building or excavation of nest hole.
	CONFIRMED BREEDING
DD	Distraction display or injury feigning.
NU	Used nest or egg shell found (occupied or laid within the period of the study).
FY	Recently fledged young or downy young, including young incapable of sustained flight.
AE	Adults leaving or entering nest site in circumstances indicating occupied nest.
FS	Adult carrying faecal sac.
CF	Adult carrying food for young.
NE	Nest containing eggs.
NY	Nest with young seen or heard.

Bird Surveys Summary

Scientific Name	Common Name	G Rank (Global)	S Rank (Provincial)	COSEWIC	SARA	ESA	BCR#8	MBCA (Y/N)	FWCA	DST 2012	DST 2013	NWES 2020	Secondary Source/Aerial Surveys/Incidental	ARU 2021 &2022	WSP 2021	WSP 2022
Empidonax alnorum	Alder Flycatcher	G5	S5B				Maintain Current	Y			X	X	OBBA	X	X	X
Botaurus lentiginosus	American Bittern	G5	S4B				Maintain Current	Y					OBBA	X		
Anas rubripes	American Black Duck	G5	S4				Increase	Y				X	OBBA	X		X
Fulica americana	American Coot	G5	S4B	NAR		NAR		Y					OBBA			
Corvus brachyrhynchos	American Crow	G5	S5B								X		OBBA	X	X	X
Spinus tristis	American Goldfinch	G5	S5B					Y			X				X	X
Falco sparverius	American Kestrel	G5	S4						FWCA SCH. 7			X	OBBA	X	X	X
Anthus rubescens	American Pipit	G5	S4B					Y						X		
Setophaga ruticilla	American Redstart	G5	S5B					Y			X	X	OBBA	X		
Turdus migratorius	American Robin	G5	S5B					Y		X	X	X	OBBA	X	X	X
Picoides dorsalis	American Three-toed Woodpe	G5	S4					Y			X		OBBA	X	X	
Spizelloides arborea	American Tree Sparrow	G5	S5					Y						X		X
Anas americana	American Wigeon	G5	S4				Maintain Current	Y					OBBA			X
Scolopax minor	American Woodcock	G5	S4B					Y						X		
Sterna paradisaea	Arctic Tern	G5	S4B					Y					OBBA			
Haliaeetus leucocephalus	Bald Eagle	G5	S2N,S4B	NAR		SC	Recovery		FWCA SCH. 7		X	X	Nest Observed Aerial Surveys, NHIC, OBBA	X	X	X
Riparia riparia	Bank Swallow	G5	S4B	THR	THR	THR	Assess/Maintain	Y					OBBA			
Hirundo rustica	Barn Swallow	G5	S5B	THR	THR	THR	Recovery	Y					OBBA		X	X
Strix varia	Barred Owl	G5	S5						FWCA SCH. 7		X	X	OBBA	X		X
Setophaga castanea	Bay-breasted Warbler	G5	S5B				Maintain Current	Y			X	X	OBBA	X	X	X
Megaceryle alcyon	Belted Kingfisher	G5	S4B				Maintain Current		FWCA SCH. 8		X	X	OBBA	X	X	X
Chlidonias niger	Black Tern	G4G5	S3B	NAR		SC	Recovery	Y					OBBA			
Mniotilta varia	Black-and-white Warbler	G5	S5B				Maintain Current	Y		X	X	X	OBBA	X	X	X
Picoides arcticus	Black-backed Woodpecker	G5	S4				Assess/Maintain	Y				X	OBBA	X	X	X
Pica hudsonia	Black-billed Magpie	G5	S2											X		
Setophaga fusca	Blackburnian Warbler	G5	S5B				Maintain Current	Y			X		OBBA	X	X	X
Poecile atricapillus	Black-capped Chickadee	G5	S5					Y			X	X	OBBA	X	X	X
Setophaga striata	Blackpoll Warbler	G5	S4B					Y					OBBA	X	X	
Setophaga caerulescens	Black-throated Blue Warbler	G5	S5B					Y					OBBA			
Setophaga virens	Black-throated Green Warbler	G5	S5B				Maintain Current	Y			X		OBBA	X		
Cyanocitta cristata	Blue Jay	G5	S5						FWCA SCH. 8				OBBA		X	
Vireo solitarius	Blue-headed Vireo	G5	S5B				Maintain Current	Y			X	X	OBBA	X	X	X
Anas discors	Blue-winged Teal	G5	S4					Y					OBBA		X	X
Bombycilla garrulus	Bohemian Waxwing	G5	SNA					Y					OBBA			
Chroicocephalus philadelphia	Bonaparte's Gull	G5	S4B,S4N					Y		Nesting Colony	X	X	OBBA	X	X	X
Poecile hudsonicus	Boreal Chickadee	G5	S5					Y			X	X	OBBA	X	X	X
Aegolius funereus	Boreal Owl	G5	S4	NAR		NAR	Assess/Maintain		FWCA SCH. 7		X		OBBA	X		X
Euphagus cyanocephalus	Brewer's Blackbird	G5	S2						FWCA SCH. 8							X
Buteo platypterus	Broad-winged Hawk	G5	S5B						FWCA SCH. 7		X		OBBA	X	X	
Certhia americana	Brown Creeper	G5	S5B					Y			X	X	OBBA	X	X	X
Molothrus ater	Brown-headed Cowbird	G5	S5													X
Bucephala albeola	Bufflehead	G5	S4				Maintain Current	Y			X		OBBA		X	X

Bird Surveys Summary

	Scientific Name	Common Name	G Rank (Global)	S Rank (Provincial)	COSEWIC	SARA	ESA	BCR#8	MBCA (Y/N)	FWCA	DST 2012	DST 2013	NWES 2020	Secondary Source/Aerial Surveys/Incidental	ARU 2021 &2022	WSP 2021	WSP 2022
	Branta hutchinsii	Cackling Goose	G5	SUB,S4M					Y						X		
	Branta canadensis	Canada Goose	G5	S5					Y			X	X	OBBA	X	X	X
	Perisoreus canadensis	Canada Jay	G5	S5						FWCA SCH. 8	X	X	X	OBBA	X	X	X
	Cardellina canadensis	Canada Warbler	G5	S4B	THR	THR	SC	Recovery	Y					OBBA, found in IMP-M (between point count locations), and in the immediate vicinity of the Springpole Camp	X	X	
	Setophaga tigrina	Cape May Warbler	G5	S5B				Maintain Current	Y					OBBA	X	X	X
	Hydroprogne caspia	Caspian Tern	G5	S3B					Y					OBBA			
	Bombycilla cedrorum	Cedar Waxwing	G5	S5B					Y		X	X		OBBA	X	X	X
	Setophaga pensylvanica	Chestnut-sided Warbler	G5	S5B				Maintain Current	Y			X		OBBA	X	X	X
	Spizella passerina	Chipping Sparrow	G5	S5B					Y		X	X	X	OBBA	X	X	X
	Spizella pallida	Clay-colored Sparrow	G5	S4B					Y					OBBA		X	
	Petrochelidon pyrrhonota	Cliff Swallow	G5	S4B				Increase	Y					OBBA			
	Bucephala clangula	Common Goldeneye	G5	S5				Maintain Current	Y			X	X	OBBA	X	X	X
	Quiscalus quiscula	Common Grackle	G5	S5B									X	OBBA	X	X	X
	Gavia immer	Common Loon	G5	S5B,S5N	NAR		NAR	Maintain Current	Y		X	X	X	OBBA	X	X	X
	Mergus merganser	Common Merganser	G5	S5B,S5N				Maintain Current	Y		X	X	X	OBBA	X	X	X
	Chordeiles minor	Common Nighthawk	G5	S4B	SC	THR	SC	Recovery	Y				X	OBBA, detected by ARUs	X		
	Corvus corax	Common Raven	G5	S5						FWCA SCH. 8	X	X	X	OBBA	X	X	X
	Acanthis flammea	Common Redpoll	G5	S4B					Y		X			OBBA			X
	Sterna hirundo	Common Tern	G5	S4B	NAR		NAR	Assess/Maintain	Y			X		OBBA	X	X	
	Geothlypis trichas	Common Yellowthroat	G5	S5B					Y			X	X	OBBA	X	X	X
	Oporornis agilis	Connecticut Warbler	G4G5	S4B				Maintain Current	Y					OBBA	X	X	X
	Accipiter cooperii	Cooper's Hawk	G5	S4						FWCA SCH. 7					X		
	Junco hyemalis	Dark-eyed Junco	G5	S5B					Y			X	X	OBBA	X	X	X
	Phalacrocorax auritus	Double-crested Cormorant	G5	S5B	NAR		NAR			FWCA SCH. 3				OBBA			
	Picoides pubescens	Downy Woodpecker	G5	S5					Y				X	OBBA	X	X	X
	Sialia sialis	Eastern Bluebird	G5	S5B	NAR		NAR		Y					OBBA			X
	Tyrannus tyrannus	Eastern Kingbird	G5	S4B				Assess/Maintain	Y					OBBA, incidental during breeding bird surveys	X		
	Sayornis phoebe	Eastern Phoebe	G5	S5B					Y					OBBA			X
	Antrostomus vociferus	Eastern Whip-poor-will	G5	S4B	THR	THR	THR	Recovery	Y					OBBA, detected by ARUs	X		
*	*Sturnus vulgaris*	European Starling	G5	SNA										OBBA			X
	Coccothraustes vespertinus	Evening Grosbeak	G5	S4B	SC			Assess/Maintain	Y					OBBA	X		X
	Passerella iliaca	Fox Sparrow	G5	S4B					Y					OBBA	X		X
	Anas strepera	Gadwall	G5	S4					Y					OBBA	X		
	Aquila chrysaetos	Golden Eagle	G5	S2B				Recovery		FWCA SCH. 7				OBBA, one flyover			
	Regulus satrapa	Golden-crowned Kinglet	G5	S5B					Y			X	X	OBBA	X	X	X

Bird Surveys Summary

	Scientific Name	Common Name	G Rank (Global)	S Rank (Provincial)	COSEWIC	SARA	ESA	BCR#8	MBCA (Y/N)	FWCA	DST 2012	DST 2013	NWES 2020	Secondary Source/Aerial Surveys/Incidental	ARU 2021 &2022	WSP 2021	WSP 2022
	Catharus minimus	Gray-cheeked Thrush	G5	S4?B,S4M					Y						X		
	Ardea herodias	Great Blue Heron	G5	S4					Y			X		OBBA			X
	Myiarchus crinitus	Great Crested Flycatcher	G5	S4B					Y					OBBA			
	Strix nebulosa	Great Gray Owl	G5	S4	NAR		NAR			FWCA SCH. 7				OBBA, incidental during aerial surveys		X	
	Bubo virginianus	Great Horned Owl	G5	S4						FWCA SCH. 7				OBBA			
	Aythya marila	Greater Scaup	G5	S4					Y					OBBA	X		X
	Tringa melanoleuca	Greater Yellowlegs	G5	S4B,S4N				Assess/Maintain	Y				X	OBBA	X	X	X
	Anas crecca	Green-winged Teal	G5	S4				Maintain Current	Y				X	OBBA	X		X
	Picoides villosus	Hairy Woodpecker	G5	S5					Y		X	X		OBBA	X	X	X
	Catharus guttatus	Hermit Thrush	G5	S5B					Y			X	X	OBBA	X	X	X
	Larus argentatus	Herring Gull	G5	S5B,S5N				Assess/Maintain	Y			X		OBBA		X	X
	Lophodytes cucullatus	Hooded Merganser	G5	S5B,S5N					Y			X	X	OBBA	X	X	X
	Podiceps auritus	Horned Grebe	G5	S1B,S4N				Recovery	Y					OBBA			
	Eremophila alpestris	Horned Lark	G5	S4					Y						X		
*	*Passer domesticus*	House Sparrow	G5	SNA										OBBA			
	Charadrius vociferus	Killdeer	G5	S5B,S5N					Y			X		OBBA, incidental observed at Springpole Camp	X	X	X
	Calcarius lapponicus	Lapland Longspur	G5	S3B					Y					Incidental			
	Ammodramus leconteii	Le Conte's Sparrow	G5	S4B					Y					OBBA	X		
	Empidonax minimus	Least Flycatcher	G5	S4B					Y			X	X	OBBA	X	X	X
	Calidris minutilla	Least Sandpiper	G5	S4B,S5N					Y					OBBA			
	Aythya affinis	Lesser Scaup	G5	S4				Assess/Maintain	Y			X		OBBA			
	Tringa flavipes	Lesser Yellowlegs	G5	S4B,S4N				Assess/Maintain	Y					OBBA	X		
	Melospiza lincolnii	Lincoln's Sparrow	G5	S5B					Y			X	X	OBBA	X	X	X
	Asio otus	Long-eared Owl	G5	S4						FWCA SCH. 7				OBBA			
	Setophaga magnolia	Magnolia Warbler	G5	S5B				Maintain Current	Y		X	X	X	OBBA	X	X	X
	Anas platyrhynchos	Mallard	G5	S5				Maintain Current	Y			X	X	OBBA	X	X	X
	Cistothorus palustris	Marsh Wren	G5	S4B					Y					OBBA			
	Falco columbarius	Merlin	G5	S5B	NAR		NAR			FWCA SCH. 7		X		OBBA	X	X	
	Zenaida macroura	Mourning Dove	G5	S5					Y					OBBA			
	Geothlypis philadelphia	Mourning Warbler	G5	S4B				Maintain Current	Y		X	X	X	OBBA	X	X	X
	Oreothlypis ruficapilla	Nashville Warbler	G5	S5B				Maintain Current	Y		X	X	X	OBBA	X	X	X
	Ammodramus nelsoni	Nelson's Sparrow	G5	S4B					Y					OBBA			
	Colaptes auratus	Northern Flicker	G5	S4B				Maintain Current	Y			X	X	OBBA	X	X	X
	Accipiter gentilis	Northern Goshawk	G5	S4	NAR		NAR	Assess/Maintain		FWCA SCH. 7				OBBA	X		
	Circus hudsonius	Northern Harrier	G5	S4B	NAR		NAR			FWCA SCH. 7			X	OBBA			
	Surnia ulula	Northern Hawk Owl	G5	S4	NAR		NAR			FWCA SCH. 7				OBBA	X		
	Setophaga americana	Northern Parula	G5	S4B					Y			X		OBBA	X	X	
	Anas acuta	Northern Pintail	G5	S5					Y					OBBA			X
	Aegolius acadicus	Northern Saw-whet Owl	G5	S4						FWCA SCH. 7		X		OBBA			
	Anas clypeata	Northern Shoveler	G5	S4					Y					OBBA			
	Lanius borealis	Northern Shrike	G5	S4					Y					OBBA			

Bird Surveys Summary

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Parkesia noveboracensis	Northern Waterthrush	G5	S5B					Y			X	X	OBBA	X	X	X
Contopus cooperi	Olive-sided Flycatcher	G4	S4B	SC	THR	SC	Recovery	Y			X	X	OBBA	X	X	X
Oreothlypis celata	Orange-crowned Warbler	G5	S4B					Y			X	X	OBBA	X	X	X
Pandion haliaetus	Osprey	G5	S5B						FWCA SCH. 7		X		Nest Observed Aerial Surveys, OBBA, incidental during breeding bird surveys	X		
Seiurus aurocapilla	Ovenbird	G5	S4B				Maintain Current	Y		X	X	X	OBBA	X	X	X
Setophaga palmarum spp.	Palm Warbler	G5TU	S1B					Y				X	OBBA	X		X
Falco peregrinus	Peregrine Falcon	G4	S4	NAR		SC	Recovery		FWCA SCH. 7					X		
Vireo philadelphicus	Philadelphia Vireo	G5	S5B				Maintain Current	Y			X		OBBA	X	X	X
Podilymbus podiceps	Pied-billed Grebe	G5	S4B,S4N					Y					OBBA			X
Dryocopus pileatus	Pileated Woodpecker	G5	S5					Y		X	X	X	OBBA	X	X	X
Pinicola enucleator	Pine Grosbeak	G5	S4B				Assess/Maintain	Y					OBBA			X
Spinus pinus	Pine Siskin	G5	S4B					Y			X	X	OBBA	X	X	X
Setophaga pinus	Pine Warbler	G5	S5B,S3N					Y						X		
Setophaga discolor	Prairie Warbler	G5	S2B					Y								X
Haemorhous purpureus	Purple Finch	G5	S4B				Maintain Current	Y				X	OBBA	X	X	X
Loxia curvirostra	Red Crossbill	G5	S4B					Y					OBBA			
Mergus serrator	Red-breasted Merganser	G5	S4B,S5N					Y				X	OBBA	X		
Sitta canadensis	Red-breasted Nuthatch	G5	S5					Y		X	X	X	OBBA	X	X	X
Vireo olivaceus	Red-eyed Vireo	G5	S5B					Y			X	X	OBBA	X	X	X
Aythya americana	Redhead	G5	S2B,S4N					Y								X
Podiceps grisegena	Red-necked Grebe	G5	S3B,S4N	NAR		NAR	Assess/Maintain	Y					OBBA	X		X
Buteo jamaicensis	Red-tailed Hawk	G5	S5	NAR		NAR			FWCA SCH. 7		X	X	OBBA	X	X	X
Agelaius phoeniceus	Red-winged Blackbird	G5	S4									X	OBBA	X	X	X
Larus delawarensis	Ring-billed Gull	G5	S5B,S4N					Y				X	OBBA	X	X	X
Aythya collaris	Ring-necked Duck	G5	S5				Maintain Current	Y			X	X	OBBA	X	X	X
Pheucticus ludovicianus	Rose-breasted Grosbeak	G5	S4B					Y					OBBA	X		
Regulus calendula	Ruby-crowned Kinglet	G5	S4B				Maintain Current	Y		X	X	X	OBBA	X	X	X
Archilochus colubris	Ruby-throated Hummingbird	G5	S5B					Y					OBBA			
Bonasa umbellus	Ruffed Grouse	G5	S4				Assess/Maintain		FWCA SCH. 3		X	X	OBBA		X	X
Euphagus carolinus	Rusty Blackbird	G4	S4B	SC	SC	NAR	Recovery		FWCA SCH. 8				OBBA	X	X	X
Grus canadensis	Sandhill Crane	G5	S5B					Y					OBBA	X	X	X
Passerculus sandwichensis	Savannah Sparrow	G5	S4B					Y					OBBA	X	X	X
Cistothorus platensis	Sedge Wren	G5	S4B	NAR		NAR		Y					OBBA	X	X	
Charadrius semipalmatus	Semipalmated Plover	G5	S4B,S5M					Y						X		
Accipiter striatus	Sharp-shinned Hawk	G5	S5	NAR		NAR	Assess/Maintain		FWCA SCH. 7				OBBA		X	
Tympanuchus phasianellus	Sharp-tailed Grouse	G5	S4						FWCA SCH. 3				OBBA			
Asio flammeus	Short-eared Owl	G5	S2N,S4B	SC	SC	SC	Recovery		FWCA SCH. 7				OBBA			
Plectrophenax nivalis	Snow Bunting	G5	S4N					Y								X
Chen caerulescens	Snow Goose	G5	S5B					Y				X				
Tringa solitaria	Solitary Sandpiper	G5	S4B				Assess/Maintain	Y					OBBA	X	X	X
Melospiza melodia	Song Sparrow	G5	S5B					Y			X	X	OBBA	X	X	X

Bird Surveys Summary

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Porzana carolina	Sora	G5	S4B					Y					OBBA	X	X	
Actitis macularius	Spotted Sandpiper	G5	S5					Y			X	X	OBBA	X	X	X
Falcipennis canadensis	Spruce Grouse	G5	S5						FWCA SCH. 3		X		OBBA, nest confirmed indicentally	X	X	X
Catharus ustulatus	Swainson's Thrush	G5	S4B					Y		X	X	X	OBBA	X	X	X
Melospiza georgiana	Swamp Sparrow	G5	S5B				Maintain Current	Y			X	X	OBBA	X	X	X
Oreothlypis peregrina	Tennessee Warbler	G5	S5B				Assess/Maintain	Y		X	X	X	OBBA	X	X	X
Tachycineta bicolor	Tree Swallow	G5	S4B				Increase	Y			X	X	OBBA	X	X	X
Cygnus buccinator	Trumpeter Swan	G4	S4	NAR		NAR		Y				X	Nesting confirmed	X	X	X
Cathartes aura	Turkey Vulture	G5	S5B						FWCA SCH. 7		X		OBBA, incidental during breeding bird surveys			X
Catharus fuscescens	Veery	G5	S4B					Y			X		OBBA			
Pooecetes gramineus	Vesper Sparrow	G5	S4B					Y					OBBA	X	X	X
Rallus limicola	Virginia Rail	G5	S5B					Y					OBBA			X
Setophaga palmarum palmaru	Western Palm Warbler	G5T5	S5B					Y							X	
Sitta carolinensis	White-breasted Nuthatch	G5	S5					Y							X	
Zonotrichia leucophrys	White-crowned Sparrow	G5	S4B					Y					OBBA	X		
Zonotrichia albicollis	White-throated Sparrow	G5	S5B				Maintain Current	Y		X	X	X	OBBA	X	X	X
Loxia leucoptera	White-winged Crossbill	G5	S5B					Y			X		OBBA	X	X	X
Melanitta fusca	White-winged Scoter	G5	S4B,S4N					Y					OBBA			
Gallinago delicata	Wilson's Snipe	G5	S5B				Assess/Maintain	Y					OBBA	X	X	X
Cardellina pusilla	Wilson's Warbler	G5	S4B					Y			X	X	OBBA	X	X	X
Troglodytes hiemalis	Winter Wren	G5	S5B				Maintain Current	Y		X	X	X	OBBA	X	X	X
Aix sponsa	Wood Duck	G5	S5					Y					OBBA	X		
Coturnicops noveboracensis	Yellow Rail	G4	S3B	SC	SC	SC	Recovery	Y						X		
Setophaga petechia	Yellow Warbler	G5	S5B					Y		X		X	OBBA		X	
Empidonax flaviventris	Yellow-bellied Flycatcher	G5	S5B				Maintain Current	Y				X	OBBA	X	X	X
Sphyrapicus varius	Yellow-bellied Sapsucker	G5	S5B				Maintain Current	Y		X	X	X	OBBA	X	X	X
Xanthocephalus xanthocephalu	Yellow-headed Blackbird	G5	S2B					Y					OBBA			
Setophaga coronata	Yellow-rumped Warbler	G5	S5B					Y		X	X	X	OBBA	X	X	X

Flora Summary

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	Abies balsamea	Balsam Fir	G5	S5				X	X	X	X
	Acer spicatum	Mountain Maple	G5	S5				X	X	X	X
*?	*Achillea millefolium*	Common Yarrow	G5	SNA						X	X
	Acorus americanus	American Sweetflag	G5	S4					X	X	X
	Actaea rubra	Red Baneberry	G5	S5						X	X
*	*Agrostis gigantea*	Redtop	G4G5	SNA						X	
	Agrostis scabra	Rough Bentgrass	G5	S5					X	X	X
	Alisma triviale	Northern Water-plantain	G5	S5							X
	Alnus alnobetula	Green Alder	G5	S5					X	X	X
	Alnus incana	Grey Alder	G5	S5					X	X	X
	Alnus sp.	Alder species	#N/A	#N/A	#N/A	#N/A	#N/A	X			
	Alopecurus aequalis	Short-awned Foxtail	G5	S4							X
	Amelanchier bartramiana	Bartram's Serviceberry	G5	S5					X		X
	Amelanchier humilis	Low Serviceberry	G5	S5						X	
	Amelanchier sp.	Serviceberry species	#N/A	#N/A	#N/A	#N/A	#N/A	X		X	X
	Anaphalis margaritacea	Pearly Everlasting	G5	S5						X	X
	Andromeda polifolia	Bog Rosemary	G5	S5				X	X	X	X
	Anemone multifida	Cut-leaved Anemone	G5	S5						X	
	Anemone quinquefolia	Wood Anemone	G5	S5						X	X
	Antennaria howellii	Howell's Pussytoes	G5	S5							X
	Antennaria parlinii	Parlin's Pussytoes	G5	S5						X	
	Antennaria sp.	Pussytoes species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Apocynum androsaemifolium	Spreading Dogbane	G5	S5					X	X	X
	Aralia hispida	Bristly Sarsaparilla	G5	S5						X	X
	Aralia nudicaulis	Wild Sarsaparilla	G5	S5				X	X	X	X
	Arctostaphylos uva-ursi	Common Bearberry	G5	S5						X	X
	Arethusa bulbosa	Dragon's-mouth	G5	S4S5						X	X
	Aronia melanocarpa	Black Chokeberry	G5	S5					X		
*	*Artemisia vulgaris*	Common Wormwood	GU	SNA						X	
	Athyrium filix-femina	Common Lady Fern	G5	S5					X	X	X
	Atrichum sp.	Aloe Moss species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Aulacomnium palustre	Ribbed Groove Moss	G5	S5							X
	Beckmannia syzigachne	American Sloughgrass	G5	S4							X
	Betula papyrifera	Paper Birch	G5	S5					X	X	X
	Betula pumila	Bog Birch	G5	S5				X	X	X	X
	Bidens beckii	Water Beggarticks	G5	S5					X	X	X
	Bidens cernua	Nodding Beggarticks	G5	S5						X	
	Botrypus virginianus	Rattlesnake Fern	G5	S5						X	X
	Bromus ciliatus	Fringed Brome	G5	S5						X	X
*	*Bromus inermis*	Smooth Brome	G5T5	SNA							X
	Bromus sp.	Brome species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Calamagrostis canadensis	Bluejoint Reedgrass	G5	S5				X	X	X	X
	Calla palustris	Wild Calla	G5	S5					X	X	X
	Calliergon giganteum	Giant Spear Moss	G5	S5							X

Flora Summary

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	Calliergon sp.	Spear Moss species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Callitriche palustris	Spring Water-starwort	G5	S5					X	X	X
	Caltha natans	Floating Marsh Marigold	G5	S2						X	
	Caltha palustris	Yellow Marsh Marigold	G5	S5					X	X	X
	Calypso bulbosa	Fairy-slipper Orchid	G5	S4?							X
	Campanula aparinoides	Marsh Bellflower	G5	S5					X	X	X
	Campylium stellatum	Yellow Star Moss	G5	S5							X
	Canadanthus modestus	Great Northern Aster	G5	S4S5						X	X
	Capnoides sempervirens	Pale Corydalis	G5	S5						X	X
	Cardamine dentata	Toothed Bittercress	G5	S5							X
	Carex adusta	Lesser Brown Sedge	G5	S4						X	
	Carex aquatilis	Water Sedge	G5	S5					X	X	X
	Carex bebbii	Bebb's Sedge	G5	S5					X		
	Carex billingsii	Billings' Sedge	G5	S4							X
	Carex brunnescens	Brownish Sedge	G5	S5					X	X	X
	Carex canescens	Hoary Sedge	G5	S5						X	X
	Carex castanea	Chestnut Sedge	G5	S5						X	X
	Carex chordorrhiza	Creeping Sedge	G5	S5							X
	Carex comosa	Bearded Sedge	G5	S5							X
	Carex cryptolepis	Northeastern Sedge	G4G5	S4					X	X	X
	Carex deflexa	Bent Northern Sedge	G5	S5						X	
	Carex deweyana	Dewey's Sedge	G5	S5							X
	Carex diandra	Lesser Panicled Sedge	G5	S5					X	X	
	Carex disperma	Two-seeded Sedge	G5	S5						X	X
*	*Carex disticha*	Two-ranked Sedge	GNR	SNA					X		
	Carex echinata	Star Sedge	G5	S5							X
	Carex exilis	Meagre Sedge	G5	S5						X	X
	Carex flava	Yellow Sedge	G5	S5						X	X
	Carex foenea	Bronze Sedge	G5	S5						X	X
	Carex houghtoniana	Houghton's Sedge	G5	S5						X	X
	Carex interior	Inland Sedge	G5	S5					X	X	
	Carex intumescens	Bladder Sedge	G5	S5					X		
	Carex lacustris	Lake Sedge	G5	S5					X	X	
	Carex lasiocarpa	Woolly-fruit Sedge	G5	S5					X	X	X
	Carex lenticularis	Lenticular Sedge	G5	S5						X	
	Carex leptalea	Bristle-stalked Sedge	G5	S5						X	X
	Carex limosa	Mud Sedge	G5	S5						X	X
	Carex livida	Livid Sedge	G5	S5						X	
	Carex magellanica	Boreal Bog Sedge	G5	S5						X	X
	Carex michauxiana	Michaux's Sedge	G5	S4						X	X
	Carex oligosperma	Few-seeded Sedge	G5	S5					X	X	X
	Carex pauciflora	Few-flowered Sedge	G5	S5					X	X	X
	Carex pellita	Woolly Sedge	G5	S5							X
	Carex projecta	Necklace Sedge	G5	S5							X

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	Carex radiata	Eastern Star Sedge	G5	S5							X
	Carex rostrata	Swollen Beaked Sedge	G5	S4?						X	
	Carex scoparia	Pointed Broom Sedge	G5	S5						X	
	Carex stricta	Tussock Sedge	G5	S5					X		
	Carex tenera	Tender Sedge	G5	S5						X	X
	Carex tenuiflora	Sparse-flowered Sedge	G5	S5						X	X
	Carex tribuloides	Blunt Broom Sedge	G5	S4					X		
	Carex trisperma	Three-seeded Sedge	G5	S5					X	X	X
	Carex umbellata	Umbellate Sedge	G5	S5						X	
	Carex utriculata	Northern Beaked Sedge	G5	S5					X	X	X
	Carex vaginata	Sheathed Sedge	G5	S5					X	X	X
	Carex vesicaria	Inflated Sedge	G5	S5						X	
	Carex viridula	Greenish Sedge	G5	S5					X	X	X
	Carex Sect. Cyperoideae	Section Cyperoideae Sedge	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Carex sp.	Sedge species	#N/A	#N/A	#N/A	#N/A	#N/A	X	X		X
*	*Cerastium fontanum*	Common Mouse-ear Chickweed	GNR	SNA						X	X
	Ceratodon purpureus	Fire Moss	G5	S5							X
	Ceratophyllum demersum	Common Hornwort	G5	S5					X		
	Chamaedaphne calyculata	Leatherleaf	G5	S5				X	X	X	X
	Chamaenerion angustifolium	Fireweed	G5	S5				X	X	X	X
	Chara sp.	Stonewort species	#N/A	#N/A	#N/A	#N/A	#N/A				X
*	*Chenopodium album*	Common Lamb's-quarters	G5	SNA						X	
	Chimaphila umbellata	Common Pipsissewa	G5	S5						X	X
	Cicuta bulbifera	Bulbous Water-hemlock	G5	S5						X	X
	Cinna latifolia	Drooping Woodreed	G5	S5					X	X	
	Circaea alpina	Small Enchanter's Nightshade	G5	S5					X	X	
*	*Cirsium arvense*	Canada Thistle	G5	SNA						X	X
	Cladium mariscoides	Smooth Twig-rush	G5	S5						X	
	Cladonia arbuscula	Green Reindeer Lichen	G5	S5							X
	Cladonia cornuta	Bighorn Pixie Lichen	G5	S4S5							X
	Cladonia furcata	Many-forked Cladonia	G5	S5							X
	Cladonia macilenta	Lipstick Powderhorn	G5	S5							X
	Cladonia pleurota	Red-fruited Pixie-cup	G5	S5							X
	Cladonia pyxidata	Pebbled Pixie-cup Lichen	G5	S5							X
	Cladonia rangiferina	Gray Reindeer Lichen	G5	S5							X
	Cladonia stellaris	Star-tipped Reindeer Lichen	G5	S5							X
	Cladonia stygia	Black-footed Reindeer Lichen	G5	S5							X
	Cladonia sulphurina	Greater Sulphur-cup Lichen	G5	S5							X
	Cladonia sp.	Pixie-cup Lichen species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Claytosmunda claytoniana	Interrupted Fern	G5	S5					X	X	X
	Clematis occidentalis	Purple Clematis	G5	S4						X	
	Climacium dendroides	Northern Tree Moss	G5	S5							X
	Clintonia borealis	Yellow Clintonia	G5	S5				X	X	X	X
	Comarum palustre	Marsh Cinquefoil	G5	S5					X	X	X

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	Coptidium lapponicum	Lapland Buttercup	G5	S5?						X	X
	Coptis trifolia	Goldthread	G5	S5				X	X	X	X
	Corallorhiza maculata	Spotted Coralroot	G5	S5							X
	Corallorhiza trifida	Early Coralroot	G5	S5						X	X
	Cornus canadensis	Bunchberry	G5	S5				X	X	X	X
	Cornus rugosa	Round-leaved Dogwood	G5	S5					X		
	Cornus sericea	Red-osier Dogwood	G5	S5				X	X	X	X
	Corydalis aurea	Golden Corydalis	G5	S5						X	
	Corylus cornuta	Beaked Hazelnut	G5	S5				X		X	
*	*Crepis tectorum*	Narrow-leaved Hawksbeard	GNR	SNA						X	
	Cypripedium acaule	Pink Lady's-slipper	G5	S5					X	X	X
	Cystopteris fragilis	Fragile Fern	G5	S4						X	X
	Danthonia spicata	Poverty Oatgrass	G5	S5						X	X
	Dasiphora fruticosa	Shrubby Cinquefoil	G5	S5						X	X
	Dendrolycopodium dendroideum	Round-branched Tree-clubmoss	G5	S5						X	X
	Dendrolycopodium hickeyi	Hickey's Tree-clubmoss	G5	S4						X	X
	Dencrolycopodium obscurum	Flat-branched Tree-clubmoss	G5	S4				X	X		
	Deschampsia cespitosa	Tufted Hairgrass	G5	S5							X
	Dichanthelium sp.	Rosette Panic-grass species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Dicranum polysetum	Wavy-leaved Broom Moss	G5	S5							X
	Dicranum undulatum	Wavy Broom Moss	G5	S5							X
	Dicranum sp.	Broom Moss species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Diervilla lonicera	Northern Bush-honeysuckle	G5	S5				X	X	X	X
	Diphasiastrum complanatum	Northern Ground-cedar	G5	S5					X	X	X
	Diphasiastrum sitchense	Sitka Ground-cedar	G5	S4						X	X
	Drepanocladus sp.	Hook Moss species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Drosera anglica	English Sundew	G5	S5						X	X
	Drosera intermedia	Spoon-leaved Sundew	G5	S5						X	
	Drosera linearis	Slender-leaved Sundew	G4G5	S4						X	
	Drosera rotundifolia	Round-leaved Sundew	G5	S5					X	X	X
	Dryopteris carthusiana	Spinulose Wood Fern	G5	S5					X	X	X
	Dryopteris cristata	Crested Wood Fern	G5	S5					X	X	X
	Dryopteris expansa	Spreading Wood Fern	G5	S4						X	X
	Dryopteris fragrans	Fragrant Wood Fern	G5	S4							X
	Dryopteris intermedia	Evergreen Wood Fern	G5	S5							X
	Dryopteris sp.	Wood Fern species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Dulichium arundinaceum	Three-way Sedge	G5	S5						X	X
	Echinochloa muricata	Rough Barnyard Grass	G5	S5						X	
*	*Elatine triandra*	Long-stamened Waterwort	G5	SNA					X		
	Eleocharis palustris	Creeping Spikerush	G5	S5					X	X	
	Eleocharis sp.	Spikerush species	#N/A	#N/A	#N/A	#N/A	#N/A			X	X
	Elodea canadensis	Canada Waterweed	G5	S5					X		
	Elodium blandowii	Wide-leaved Beard Moss	G5	S4							X
*	*Elymus repens*	Quackgrass	GNR	SNA						X	X

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Elymus trachycaulus	Slender Wildrye	G5	S5						X	
Endotropis alnifolia	Alder-leaved Buckthorn	G5	S5					X	X	X
Epigaea repens	Trailing Arbutus	G5	S5						X	X
Epilobium ciliatum	Northern Willowherb	G5	S5							X
Epilobium leptophyllum	Narrow-leaved Willowherb	G5	S5						X	X
Epilobium sp.	Willowherb species	#N/A	#N/A	#N/A	#N/A	#N/A				X
Equisetum arvense	Field Horsetail	G5	S5					X	X	X
Equisetum fluviatile	Water Horsetail	G5	S5					X	X	X
Equisetum palustre	Marsh Horsetail	G5	S5						X	X
Equisetum pratense	Meadow Horsetail	G5	S5					X	X	
Equisetum scirpoides	Dwarf Scouring-rush	G5	S5						X	X
Equisetum sylvaticum	Woodland Horsetail	G5	S5					X	X	X
Erigeron canadensis	Canada Horseweed	G5	S5						X	X
Eriophorum angustifolium	Narrow-leaved Cottongrass	G5	S5							X
Eriophorum gracile	Slender Cottongrass	G5	S5						X	
Eriophorum tenellum	Rough Cottongrass	G5	S5							X
Eriophorum vaginatum	Tussock Cottongrass	G5	S5					X	X	X
Eriophorum virginicum	Tawny Cottongrass	G5	S5							X
Eriophorum viridicarinatum	Green-keeled Cottongrass	G5	S5					X	X	
Eriophorum sp.	Cottongrass species	#N/A	#N/A	#N/A	#N/A	#N/A			X	X
Eurybia macrophylla	Large-leaved Aster	G5	S5				X			
Euthamia graminifolia	Grass-leaved Goldenrod	G5	S5						X	X
Eutrochium maculatum	Spotted Joe Pye Weed	G5	S5						X	X
Fallopia cilinodis	Fringed Black Bindweed	G5	S5						X	X
Fragaria vesca	Woodland Strawberry	G5	S5					X	X	
Fragaria virginiana	Wild Strawberry	G5	S5				X		X	X
Fraxinus nigra	Black Ash	G5	S3	THR				X	X	
Galium asprellum	Rough Bedstraw	G5	S5					X		
Galium labradoricum	Labrador Bedstraw	G5	S5						X	X
Galium palustre	Common Marsh Bedstraw	G5	S5					X		X
Galium trifidum	Three-petalled Bedstraw	GNR	S5					X	X	X
Galium triflorum	Three-flowered Bedstraw	G5	S5				X	X	X	X
Galium sp.	Bedstraw species	#N/A	#N/A	#N/A	#N/A	#N/A				X
Gaultheria hispidula	Creeping Snowberry	G5	S5				X	X	X	X
Gentiana rubricaulis	Purple-stemmed Gentian	G4?	S4						X	X
Gentianella amarella	Autumn Dwarf Gentain	G5	S5							X
Geocaulon lividum	Northern Comandra	G5	S5					X	X	X
Geranium bicknellii	Bicknell's Geranium	G5	S5						X	X
Geum aleppicum	Yellow Avens	G5	S5						X	X
Geum macrophyllum	Large-leaved Avens	G5	S5						X	X
Geum rivale	Water Avens	G5	S5							X
Geum sp.	Avens species	#N/A	#N/A	#N/A	#N/A	#N/A				X
Glyceria borealis	Boreal Mannagrass	G5	S5					X	X	X
Glyceria canadensis	Canada Mannagrass	G5	S5					X	X	X

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	Glyceria grandis	Tall Mannagrass	G5	S5					X	X	
	Glyceria striata	Fowl Mannagrass	G5	S5					X	X	
	Glyceria sp.	Mannagrass species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Goodyera repens	Dwarf Rattlesnake-plantain	G5	S5						X	X
	Goodyera tesselata	Checkered Rattlesnake-plantain	G5	S5						X	X
	Gymnocarpium continentale	Nahanni Oak Fern	G4G5	S3						X	
	Gymnocarpium dryopteris	Common Oak Fern	G5	S5					X	X	X
	Hedwigia ciliata	Ciliate Hedwig's Moss	G5	S5							X
	Hieracium sp.	Hawkweed species	#N/A	#N/A	#N/A	#N/A	#N/A			X	X
	Hieracium umbellatum	Umbellate Hawkweed	G5	S5						X	
	Hippuris vulgaris	Common Mare's-tail	G5	S5						X	X
	Hordeum jubatum	Foxtail Barley	G5	S5?						X	
	Huperzia selago	Northern Firmoss	G5	S4						X	X
	Hylocomium splendens	Stairstep Moss	G5	S5							X
	Hypericum majus	Large St. John's-wort	G5	S5						X	X
	Hypericum mutilum	Dwarf St. John's-wort	G5	S4							X
	Hypericum sp.	St. John's-wort species	#N/A	#N/A	#N/A	#N/A	#N/A			X	
	Icmadophila ericetorum	Candy Lichen	G5	S5							X
	Impatiens capensis	Spotted Jewelweed	G5	S5					X	X	X
	Iris versicolor	Harlequin Blue Flag	G5	S5					X	X	X
	Juncus alpinoarticulatus	Alpine Rush	G5	S5						X	X
	Juncus balticus	Baltic Rush	G5	S5						X	
	Juncus brevicaudatus	Short-tailed Rush	G5	S5						X	X
	Juncus canadensis	Canada Rush	G5	S5					X	X	X
	Juncus pylaei	Pylaie's Soft Rush	G5T5	S4S5							X
	Juncus stygius	Moor Rush	G5T5	S4							X
	Juncus tenuis	Path Rush	G5	S5						X	X
	Juncus sp.	Rush species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Juniperus communis	Common Juniper	G5	S5					X	X	X
	Juniperus horizontalis	Creeping Juniper	G5	S5							X
	Kalmia polifolia	Pale Bog Laurel	G5	S5				X	X	X	X
	Lactuca biennis	Tall Blue Lettuce	G5	S5						X	X
	Lactuca sp.	Lettuce species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Larix laricina	Tamarack	G5	S5				X	X	X	X
	Lathyrus ochroleucus	Cream-colored Vetchling	G5	S4S5						X	X
	Lemna minor	Small Duckweed	G5	S5?					X		
*	*Leucanthemum vulgare*	Oxeye Daisy	GNR	SNA						X	X
	Leucobryum glaucum	White Pincushion Moss	G5	S5							X
	Linnaea borealis	Twinflower	G5	S5				X	X	X	X
	Liparis loeselii	Loesel's Twayblade	G5	S4S5							X
	Lobelia kalmii	Kalm's Lobelia	G5	S5						X	X
	Lonicera dioica	Limber Honeysuckle	G5	S5						X	X
	Lonicera involucrata	Bracted Honeysuckle	G5	S5					X		
	Lonicera oblongifolia	Swamp Fly-honeysuckle	G5	S5					X	X	

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	Lonicera villosa	Mountain Fly-honeysuckle	G5	S5					X	X	X
	Lonicera sp.	Honeysuckle species	#N/A	#N/A	#N/A	#N/A	#N/A	X			
	Lophozia sp.	Notchwort species	#N/A	#N/A	#N/A	#N/A	#N/A				X
*	*Lotus corniculatus*	Garden Bird's-foot Trefoil	GNR	SNA						X	X
	Luzula parviflora	Small-flowered Woodrush	G5	S5						X	X
	Lycopodiella inundata	Northern Bog Clubmoss	G5	S5							X
	Lycopodium clavatum	Running Clubmoss	G5	S5				X	X	X	X
	Lycopodium lagopus	One-cone Clubmoss	G5	S4						X	
	Lycopus uniflorus	Northern Water-horehound	G5	S5					X	X	X
	Lysimachia borealis	Northern Starflower	G5	S5				X	X	X	X
	Lysimachia terrestris	Swamp Yellow Loosestrife	G5	S5						X	X
	Lysimachia thyrsiflora	Tufted Yellow Loosestrife	G5	S5						X	X
	Maianthemum canadense	Wild Lily-of-the-valley	G5	S5				X	X	X	X
	Maianthemum trifolium	Three-leaved False Solomon's Seal	G5	S5					X	X	X
	Malaxis unifolia	Green Adder's-mouth	G5	S4S5							X
	Marchantia polymorpha	Green-tongue Liverwort	G5	S5							X
*	*Matricaria discoidea*	Pineappleweed	G5	SNA						X	
	Matteuccia struthiopteris	Ostrich Fern	G5	S5						X	X
*	*Medicago lupulina*	Black Medick	GNR	SNA						X	
	Melampyrum lineare	American Cow-wheat	G5	S5						X	X
*	*Melilotus albus*	White Sweet-clover	G5	SNA						X	X
*	*Melilotus officinalis*	Yellow Sweet-clover	GNR	SNA							X
	Mentha canadensis	Canada Mint	G5	S5					X	X	X
	Menyanthes trifoliata	Bog Buckbean	G5	S5						X	X
	Mertensia paniculata	Tall Bluebells	G5	S5					X	X	X
	Mimulus ringens	Square-stemmed Monkeyflower	G5	S5						X	
	Mitchella repens	Partridgeberry	G5	S5						X	
	Mitella nuda	Naked Mitrewort	G5	S5					X	X	X
	Mnium sp.	Leafy Moss species	#N/A	#N/A	#N/A	#N/A	#N/A				X
*	*Mollugo verticillata*	Green Carpetweed	G5	SNA						X	
	Moneses uniflora	One-flowered Wintergreen	G5	S5						X	X
	Monotropa uniflora	Indian-pipe	G5	S5					X	X	X
	Muhlenbergia glomerata	Spike Muhly	G5	S5					X	X	
	Mylia anomala	Anomalous Flapwort	G5	S5							X
	Myrica gale	Sweet Gale	G5	S5					X	X	X
	Myriophyllum sibiricum	Siberian Water-milfoil	G5	S5					X		X
	Myriophyllum sp.	Water-milfoil species	#N/A	#N/A	#N/A	#N/A	#N/A			X	
	Najas flexilis	Slender Naiad	G5	S4S5					X		X
	Neottia cordata	Heart-leaved Twayblade	G5	S5						X	X
	Nuphar microphylla	Small Yellow Pond-lily	G4G5	S3?					X		X
	Nuphar variegata	Variegated Pond-lily	G5	S5					X	X	X
	Nymphaea leibergii	Dwarf Water-lily	G5	S4?							X
	Nymphaea odorata	Fragrant Water-lily	G5	S5					X	X	X
	Oenothera biennis	Common Evening-primrose	G5	S5							X

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	Oenothera parviflora	Small-flowered Evening-primrose	G5	S5						X	X
	Onoclea sensibilis	Sensitive Fern	G5	S5						X	X
	Orthilia secunda	One-sided Wintergreen	G5	S5						X	X
	Oryzopsis asperifolia	Rough-leaved Mountain Rice	G5	S5					X	X	X
	Packera aurea	Golden Groundsel	G5	S5							X
	Packera paupercula	Balsam Groundsel	G5	S5						X	
	Panicum sp.	Panicgrass species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Peltigera aphthosa	Common Freckle Pelt Lichen	G5	S5							X
	Peltigera canina	Dog Lichen	G5	S5							X
	Peltigera neopolydactyla	Undulating Pelt Lichen	G5	S5							X
	Peltigera rufescens	Field Dog-lichen	G5	S5							X
	Peltigera sp.	Pelt Lichen species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Persicaria amphibia	Water Smartweed	G5	S5					X	X	X
	Persicaria lapathifolia	Pale Smartweed	G5	S5							X
*	*Persicaria maculosa*	Spotted Lady's-thumb	G3G5	SNA						X	
	Petasites frigidus var. palmatus	Palmate Coltsfoot	G5	S5				X	X	X	X
	Petasites frigidus var. sagittatus	Arrow-leaved Coltsfoot	G5	S4?							X
	Phalaris arundinacea	Reed Canarygrass	G5	S5					X	X	X
	Phegopteris connectilis	Northern Beech Fern	G5	S5					X	X	X
*	*Phleum pratense*	Common Timothy	GNR	SNA						X	X
	Phragmites australis ssp. americanus	American Reed	G5	SU					X	X	X
	Picea glauca	White Spruce	G5	S5					X	X	X
	Picea mariana	Black Spruce	G5	S5				X	X	X	X
*	*Pilosella aurantiaca*	Orange Hawkweed	GNR	SNA						X	X
*	*Pilosella caespitosa*	Meadow Hawkweed	GNR	SNA						X	X
	Pilosella sp.	Hawkweed species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Pinus banksiana	Jack Pine	G5	S5					X	X	X
	Plagiochila porelloides	Lesser Featherwort	G5	S5							X
	Plagiomnium cuspidatum	Woodsy Leafy Moss	G5	S5							X
	Plagiomnium sp.	Leafy Moss species	#N/A	#N/A	#N/A	#N/A	#N/A				X
*	*Plantago major*	Common Plantain	G5	SNA						X	X
	Plantago rugelii	Rugel's Plantain	G5	S5						X	
	Platanthera aquilonis	Tall Northern Green Orchid	G5	S5							X
	Platanthers dilatata	Tall White Bog Orchid	G5	S5							X
	Platanthera huronensis	Lake Huron Green Orchid	G5?	SU						X	X
	Platanthera obtusata	Blunt-leaved Orchid	G5	S5						X	X
	Platanthera orbiculata	Lesser Round-leaved Orchid	G5	S4					X	X	X
	Platanthera sp.	Bog Orchid species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Pleurozium schreberi	Red-stemmed Feather Moss	G5	S5							X
*	*Poa compressa*	Canada Bluegrass	GNR	SNA						X	
	Poa palustris	Fowl Bluegrass	G5	S5					X	X	
	Poa sp.	Bluegrass species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Pogonia ophioglossoides	Rose Pogonia	G5	S4S5						X	
	Pohlia nutans	Common Nodding Moss	G5	S5							X

Flora Summary

	Scientific Name	English Name	G Rank (Global)	S Rank (Provincial)	COSEWIC	SARA Schedule 1	ESA	DST 2012	NWES 2020	WSP 2021	WSP 2022
	Polypodium virginianum	Rock Polypody	G5	S5						X	X
	Polytrichum commune	Common Haircap Moss	G5	S5							X
	Polytrichum juniperinum	Juniper Haircap Moss	G5	S5							X
	Polytrichum piliferum	Bristly Haircap Moss	G5	S5							X
	Polytrichum strictum	Bog Haircap Moss	G5	S4							X
	Polytrichum sp.	Haircap Moss species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Pontederia cordata	Pickerelweed	G5	S5						X	
	Populus balsamifera	Balsam Poplar	G5	S5					X	X	X
	Populus tremuloides	Trembling Aspen	G5	S5				X	X	X	X
	Potamogeton amplifolius	Large-leaved Pondweed	G5	S5					X		
	Potamogeton epihydrus	Ribbon-leaved Pondweed	G5	S5					X	X	
	Potamogeton foliosus	Leafy Pondweed	G5	S5							X
	Potamogeton gramineus	Grass-leaved Pondweed	G5	S5					X		
	Potamogeton natans	Floating-leaved Pondweed	G5	S5					X	X	
	Potamogeton pusillus	Small Pondweed	G5	S4?					X		
	Potamogeton richardsonii	Richardson's Pondweed	G5	S5					X		
	Potamogeton robbinsii	Robbins' Pondweed	G5	S5					X		X
	Potamogeton zosteriformis	Flat-stemmed Pondweed	G5	S5					X		
	Potamogeton sp.	Pondweed species	#N/A	#N/A	#N/A	#N/A	#N/A			X	X
	Potentilla anserina	Silverweed	G5	S5						X	
	Potentilla norvegica	Rough Cinquefoil	G5	S5						X	X
	Potentilla sp.	Cinquefoil species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Prunus pensylvanica	Pin Cherry	G5	S5						X	X
	Prunus virginiana	Chokecherry	G5	S5					X	X	X
	Pteridium aquilinum	Bracken Fern	G5	S5				X			
	Ptilidium ciliare	Ciliated Fringewort	G5	S5							X
	Ptilidium pulcherrimum	Tree Fringewort	G5	S5							X
	Ptilium crista-castrensis	Knight's Plume Moss	G5	S5							X
	Puccinellia sp.	Salt Grass species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Pyrola asarifolia	Pink Pyrola	G5	S5					X	X	X
	Pyrola chlorantha	Green-flowered Pyrola	G5	S4S5						X	X
	Pyrola sp.	Pyrola species	#N/A	#N/A	#N/A	#N/A	#N/A			X	
*	*Ranunculus acris*	Common Buttercup	G5	SNA						X	
	Ranunculus carietorum	Northern Swamp Buttercup	G5	S5							X
	Ranunculus flammula	Lesser Spearwort	G5	S5						X	X
	Ranunculus gmelinii	Gmelin's Buttercup	G5	S5						X	
	Ranunculus longirostris	Long-beaked Water-crowfoot	G5	S5					X		
	Ranunculus pensylvanicus	Pennsylvania Buttercup	G5	S5						X	
	Ranunculus sceleratus	Cursed Buttercup	G5	S5							X
	Rhododendron groenlandicum	Common Labrador Tea	G5	S5				X	X	X	X
	Rhynchospora alba	White Beakrush	G5	S5						X	X
	Rhynchospora sp.	Beakrush species	#N/A	#N/A	#N/A	#N/A	#N/A			X	
	Rhytidiadelphus triquetrus	Shaggy Gooseneck Moss	G5	S5							X
	Ribes glandulosum	Skunk Currant	G5	S5					X	X	X

Flora Summary

Scientific Name	English Name	G Rank (Global)	S Rank (Provincial)	COSEWIC	SARA Schedule 1	ESA	DST 2012	NWES 2020	WSP 2021	WSP 2022
Ribes hirtellum	Swamp Gooseberry	G5	S5					X	X	X
Ribes hudsonianum	Northern Black Currant	G5	S5					X	X	
Ribes lacustre	Bristly Black Currant	G5	S5							X
Ribes oxycanthoides	Canada Gooseberry	G5	S5						X	X
Ribes triste	Swamp Red Currant	G5	S5					X	X	X
Ribes sp.	Currant species	#N/A	#N/A	#N/A	#N/A	#N/A	X	X	X	X
Rorippa aquatica	Lakecress	G4?	S3?					X		
Rosa acicularis	Prickly Rose	G5	S5				X	X	X	X
Rubus arcticus	Arctic Raspberry	G5	S5					X	X	X
Rubus chamaemorus	Cloudberry	G5	S5					X	X	X
Rubus idaeus	Red Raspberry	G5	S5					X	X	X
Rubus pubescens	Dwarf Raspberry	G5	S5				X	X	X	X
Rubus x paracaulis	(Rubus acaulis X Rubus pubescens)	GNA	SNA							X
Rumex britannica	Greater Water Dock	G5	S5						X	
Rumex fueginus	Tierra del Fuego Dock	G5	S4?							X
Rumex occidentalis	Western Dock	G5	S5							X
Rumex sp.	Dock species	#N/A	#N/A	#N/A	#N/A	#N/A				X
Sagittaria cuneata	Northern Arrowhead	G5	S5					X	X	X
Sagittaria latifolia	Broad-leaved Arrowhead	G5	S5					X	X	X
Sagittaria sp.	Arrowhead species	#N/A	#N/A	#N/A	#N/A	#N/A				X
Salix bebbiana	Bebb's Willow	G5	S5					X	X	X
Salix candida	Sage Willow	G5	S5					X	X	X
Salix cordata	Heart-leaved Willow	G4	S4							X
Salix discolor	Pussy Willow	G5	S5					X	X	X
Salix eriocephala	Cottony Willow	G5	S5						X	
Salix humilis	Prairie Willow	G5	S5						X	X
Salix interior	Sandbar Willow	G5	S5							X
Salix pedicellaris	Bog Willow	G5	S5				X	X	X	X
Salix pellita	Satiny Willow	G5	S5						X	
Salix petiolaris	Meadow Willow	G5	S5					X		
Salix planifolia	Tea-leaved Willow	G5	S5						X	X
Salix pyrifolia	Balsam Willow	G5	S5					X	X	X
Salix serissima	Autumn Willow	G5	S5						X	
Salix sp.	Willow Species	#N/A	#N/A	#N/A	#N/A	#N/A		X	X	X
Sanionia uncinata	Sickle Moss	G5	S5							X
Sarracenia purpurea	Northern Pitcher Plant	G5	S5				X	X	X	X
Sceptridium multifidum	Leathery Grapefern	G5	S5						X	
Scheuchzeria palustris	Marsh Scheuchzeria	G5	S5					X	X	X
Schizachne purpurascens	Purple False Melic	G5	S5					X	X	
Schoenoplectus acutus	Hard-stemmed Bulrush	G5	S5					X	X	
Schoenoplectus subterminalis	Water Bulrush	G5	S4S5					X	X	
Schoenoplectus tabernaemontani	Soft-stemmed Bulrush	G5	S5					X	X	X
Schoenoplactus sp.	Bulrush species	#N/A	#N/A	#N/A	#N/A	#N/A				X
Scirpus atrocinctus	Black-girdled Bulrush	G5	S5						X	X

Flora Summary

	Scientific Name	English Name	G Rank (Global)	S Rank (Provincial)	COSEWIC	SARA Schedule 1	ESA	DST 2012	NWES 2020	WSP 2021	WSP 2022
	Scirpus cyperinus	Common Woolly Bulrush	G5	S5					X		X
	Scirpus microcarpus	Red-tinged Bulrush	G5	S5					X		
	Scirpus sp.	Bulrush species	#N/A	#N/A	#N/A	#N/A	#N/A			X	X
	Scutellaria galericulata	Marsh Skullcap	G5	S5					X	X	X
	Scutellaria lateriflora	Side-flowering Skullcap	G5	S5							X
	Scutellaria sp.	Skullcap species	#N/A	#N/A	#N/A	#N/A	#N/A			X	X
	Selaginella rupestris	Rock Spikemoss	G5	S5						X	X
	Sibbaldia tridentata	Three-toothed Cinquefoil	G5	S5						X	X
	Sium suave	Common Water-parsnip	G5	S5					X	X	X
	Solidago canadensis	Canada Goldenrod	G5	S5						X	
	Solidago hispida	Hairy Goldenrod	G5	S5						X	X
	Solidago juncea	Early Goldenrod	G5	S5						X	X
	Solidago uliginosa	Bog Goldenrod	G5	S5				X	X	X	X
*	*Sonchus arvensis*	Field Sow-thistle	GNR	SNA						X	X
	Sonchus sp.	Sow-thistle species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Sorbus americana	American Mountain-ash	G5	S5					X	X	
	Sorbus decora	Showy Mountain-ash	G5	S5					X	X	X
	Sorbus sp.	Mountain-ash species	#N/A	#N/A	#N/A	#N/A	#N/A	X			X
	Sparganium acaule	Short-stemmed Burreed	GNR	S5						X	X
	Sparganium americanum	American Burreed	G5	S5						X	
	Sparganium emersum	Green-fruited Burreed	G5	SU							X
	Sparganium eurycarpum	Broad-fruited Burreed	G5	S5					X		
	Sparganium fluctuans	Floating Burreed	G5	S5?					X	X	X
	Sparganium natans	Small Burreed	G5	S5						X	
	Sphagnum angustifolium	Narrow-leaved Peatmoss	G5	S5							X
	Sphagnum capillifolium	Northern Peatmoss	G5	S5							X
	Sphagnum divinum	Divine Bogmoss	GNR	SU							X
	Sphagnum fuscum	Brown Peatmoss	G5	S5							X
	Sphagnum girgensohnii	Girgensohn's Peatmoss	G5	S5							X
	Sphagnum riparium	Streamside Peatmoss	G5	S4							X
	Sphagnum rubellum	Red Peatmoss	G5	S5							X
	Sphagnum squarrosum	Shaggy Peatmoss	G5	S5							X
	Sphagnum warnstorfii	Warnstorf's Peatmoss	G5	S5							X
	Sphagnum wulfianum	Wulf's Peatmoss	G5	S5							X
	Sphagnum sp.	Peatmoss species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Spinulum annotinum	Stiff Clubmoss	G5	S5					X	X	X
	Spinulum canadense	Northern Stiff Clubmoss	G4G5	S4?						X	
	Spiraea alba	White Meadowsweet	G5	S5						X	X
	Splachnum ampullaceum	Cruet Dung Moss	G5	S3							X
	Splachnum luteum	Yellow Dung Moss	G5	S1							X
	Splachnum rubrum	Red Dung Moss	G5	S2							X
	Stereocaulon tomentosum	Woolly Foam Lichen	G5	S4S5							X
	Stereocaulon sp.	Foam Lichen	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Streptopus lanceolatus	Rose Twisted-stalk	G5	S5				X	X	X	X

Flora Summary

	Scientific Name	English Name	G Rank (Global)	S Rank (Provincial)	COSEWIC	SARA Schedule 1	ESA	DST 2012	NWES 2020	WSP 2021	WSP 2022
	Stuckenia pectinata	Sago Pondweed	G5	S5					X		
	Symphyotrichum boreale	Rush Aster	G5	S5						X	X
	Symphyotrichum ciliolatum	Lindley's Aster	G5	S5						X	X
	Symphyotrichum lanceolatum	Panicled Aster	G5	S5						X	X
	Symphyotrichum lateriflorum	Calico Aster	G5	S5						X	
	Symphyotrichum puniceum	Purple-stemmed Aster	G5	S5					X	X	X
	Symphyotrichum robynsianum	Robyns' Aster	G5	S5						X	
	Symphyotrichum sp.	Aster species	#N/A	#N/A	#N/A	#N/A	#N/A				X
*	*Taraxacum officinale*	Common Dandelion	G5	SNA						X	X
	Taxus canadensis	Canada Yew	G5	S4						X	X
	Thalictrum dasycarpum	Purple Meadow-rue	G5	S4?						X	X
	Thelypteris palustris	Marsh Fern	G5	S5					X	X	
	Thuidium recognitum	Hook-leaved Fern Moss	G5	S5							X
	Thuja occidentalis	Eastern White Cedar	G5	S5					X	X	X
	Tomentypnum nitens	Shiny Golden Fuzzy Moss	G5	S4							X
	Tortella sp.	Twisted Moss species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Triadenum fraseri	Fraser's St. John's-wort	G5	S5					X	X	X
	Triantha glutinosa	Sticky False Asphodel	G5	S4S5							X
	Trichophorum alpinum	Alpine Clubrush	G5	S5						X	X
	Trichophorum cespitosum	Tufted Clubrush	G5	S5					X	X	X
*	*Trifolium hybridum*	Alsike Clover	GNR	SNA						X	
*	*Trifolium pratense*	Red Clover	GNR	SNA						X	X
*	*Trifolium repens*	White Clover	GNR	SNA						X	X
	Triglochin maritima	Seaside Arrowgrass	G5	S5						X	X
	Trillium cernuum	Nodding Trillium	G5	S5				X		X	
	Turritis glabra	Tower Mustard	G5	S5							X
	Typha latifolia	Broad-leaved Cattail	G5	S5					X	X	X
	Umbilicaria mammulata	Smooth Rocktripe Lichen	G5	S4S5							X
	Umbilicaria sp.	Rocktripe Lichen species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Usnea cavernosa	Pitted Beard Lichen	G5	S4S5							X
	Usnea sp.	Beard Lichen species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Utricularia cornuta	Horned Bladderwort	G5	S5						X	
	Utricularia intermedia	Flat-leaved Bladderwort	G5	S5					X	X	X
	Utricularia vulgaris	Common Bladderwort	G5	S5					X	X	X
	Utricularia sp.	Bladderwort species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Vaccinium angustifolium	Early Lowbush Blueberry	G5	S5					X	X	X
	Vaccinium macrocarpon	Large Cranberry	G5	S4					X		
	Vaccinium myrtilloides	Velvet-leaved Blueberry	G5	S5					X	X	X
	Vaccinium oxycoccos	Small Cranberry	G5	S5				X	X	X	X
	Vaccinium vitis-idaea	Mountain Cranberry	G5	S5					X	X	X
	Vaccinium sp.	Blueberry species	#N/A	#N/A	#N/A	#N/A	#N/A	X	X		
	Vallisneria americana	American Eelgrass	G5	S5					X		X
	Viburnum edule	Squashberry	G5	S5					X	X	X
	Viburnum opulus	Cranberry Viburnum	G5	S5					X	X	

Flora Summary

	Scientific Name	English Name	G Rank (Global)	S Rank (Provincial)	COSEWIC	SARA Schedule 1	ESA	DST 2012	NWES 2020	WSP 2021	WSP 2022
	Vicia americana	American Vetch	G5	S5						X	
*	*Vicia cracca*	Tufted Vetch	GNR	SNA						X	
	Vicia sp.	Vetch species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Viola adunca	Hooked Violet	G5	S5?							X
	Viola blanda	Sweet White Violet	G5	S5						X	
	Viola epipsila	Northern Marsh Violet	G5	S2S3					X	X	X
	Viola labradorica	Labrador Violet	G5	S5							X
	Viola macloskeyi	Macloskey's Violet	G5	S5							X
	Viola nephrophylla	Northern Bog Violet	G5	S5					X		
	Viola renifolia	Kidney-leaved Violet	G5	S5				X	X	X	X
	Viola selkirkii	Selkirk's Violet	G5	S5						X	X
	Viola sp.	Violet species	#N/A	#N/A	#N/A	#N/A	#N/A	X	X	X	X
	Woodsia alpina	Alpine Woodsia	G4G5	S2						X	
	Woodsia ilvensis	Rusty Woodsia	G5	S5						X	X
	Woodsia oregana	Oregon Woodsia	G5	S4							X
	Xanthoparmelia sp.	Rock-shield Lichen species	#N/A	#N/A	#N/A	#N/A	#N/A				X
	Xyris difformis	Bog Yellow-eyed-grass	G5	S4							X
	Xyris montana	Northern Yellow-eyed-grass	G5	S4						X	
	Zizania palustris	Northern Wildrice	G5	S5?							X

Attachment 3
Vegetation Community Photos

Enter File Path here



B012 – Very Shallow, Dry to Fresh – Pine-Black Spruce Conifer



B012 – Very Shallow, Dry to Fresh – Pine-Black Spruce Conifer



B049 – Dry to Fresh, Coarse – Jack Pine-Black Spruce Dominated



B049 – Dry to Fresh, Coarse – Jack Pine-Black Spruce Dominated



B049 – Dry to Fresh, Coarse – Jack Pine-Black Spruce Dominated



B050 – Dry to Fresh, Coarse – Pine-Black Spruce Conifer



B050 – Dry to Fresh, Coarse – Pine-Black Spruce Conifer



B050 – Dry to Fresh, Coarse – Pine-Black Spruce Conifer

SPRINGPOLE GOLD PROJECT

Vegetation Community Photos

Date: March 2024

Project No: ONS2104

Figure No: C-1

Enter File Path here



B052 – Dry to Fresh, Coarse – Spruce-Fir Conifer



B055 – Dry to Fresh, Coarse – Aspen-Birch Hardwood



B055 – Dry to Fresh, Coarse – Aspen-Birch Hardwood



B055 – Dry to Fresh, Coarse – Aspen-Birch Hardwood



B098 – Fresh, Silty to Fine Loamy – Black Spruce-Jack Pine



B104 – Fresh, Silty to Fin Loamy – Aspen-Birch Hardwood



B127 – Organic Poor Conifer Swamp



B128 – Organic Intermediate Conifer Swamp

SPRINGPOLE GOLD PROJECT

Vegetation Community Photos

Date: March 2024

Project No: ONS2104

Figure No: C-2

Enter File Path here



B128 – Organic Intermediate Conifer Swamp



B128 – Organic Intermediate Conifer Swamp



B129 – Organic Rich Conifer Swamp



B129 – Organic Rich Conifer Swamp



B129 – Organic Rich Conifer Swamp



B129 – Organic Rich Conifer Swamp



B129 – Organic Rich Conifer Swamp

SPRINGPOLE GOLD PROJECT

Vegetation Community Photos

Date: March 2024

Project No: ONS2104

Figure No: C-3

Attachment 4
Bat Results

Table D1. Number of Passes Recorded at Each Site

Detector	Year	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A1	2021	27	0	19	0	8	65	230	0	6	36	0
A2	2021	5	0	7	0	2	103	97	0	2	25	0
A4	2021	4	0	1	0	3	5	26	0	0	3	0
A5	2021	1	0	7	0	2	0	6	0	1	3	0
A6	2021	2	0	5	0	0	7	19	0	0	5	0
A9	2021	1	0	11	0	14	244	213	0	8	68	0
A10	2021	1	0	0	0	2	8	26	0	0	7	0
A11	2021	8	0	19	0	10	552	361	0	11	143	0
A12	2021	2	0	3	0	1	10	23	0	1	7	0
A13	2021	5	0	4	0	4	17	124	0	4	19	0
A16	2021	5	0	1	0	1	106	1566	0	20	62	0
A18	2021	0	0	2	0	0	300	407	0	11	186	0
A19	2021	2	0	10	0	4	202	143	0	2	49	0
A21	2021	3	0	5	0	9	127	157	0	6	42	0
A22	2021	0	0	378	0	46	40	201	0	0	93	0
A23	2021	12	0	60	0	5	244	646	0	8	66	0
A25	2021	2	0	0	0	2	126	370	0	8	86	0
A27	2021	2	0	7	1	3	81	202	0	4	49	0
A28	2021	0	0	5	1	2	258	591	0	5	74	0
B1	2021	8	0	3	0	4	37	95	0	4	31	0
B2	2021	7	0	14	0	17	206	134	0	4	39	0
B4	2021	9	0	63	0	37	9	32	0	2	7	0
B5	2021	0	0	47	0	48	326	122	0	0	71	0
B6	2021	0	0	2	0	3	6	10	0	0	5	0
B9	2021	0	0	2	0	2	25	22	0	0	61	0
B10	2021	1	0	30	0	11	13	15	0	0	17	0
B11	2021	4	0	12	0	2	362	358	0	9	108	0
B12	2021	0	0	5	0	0	14	31	0	0	10	0
B13	2021	1	0	9	0	1	60	195	0	5	42	0
B16	2021	6	0	6	0	3	190	1795	0	16	151	0
B18	2021	4	0	58	0	37	1414	842	0	15	291	0
B19	2021	6	0	9	0	22	398	211	0	3	149	0
B21	2021	0	0	3	0	2	51	166	0	3	23	0
B22	2021	49	0	398	0	230	1125	435	0	3	139	0
B23	2021	74	0	273	0	125	1086	1283	0	30	249	0
B27	2021	0	0	3	0	1	91	211	0	0	69	0
B28	2021	0	0	0	0	0	121	803	0	5	109	0
Cliff 1-1	2021	17	0	1	0	68	20	164	4	0	93	0
Cliff 1-2	2021	155	0	3	0	163	84	400	10	0	70	0
Cliff 1-3	2021	147	0	5	0	161	80	269	4	0	77	0
Cliff 1-4	2021	61	0	147	0	173	35	159	1	0	84	0
Cliff 1-5	2021	400	0	6	1	195	59	266	3	0	65	0
Cliff 1-6	2021	255	0	5	0	309	49	139	1	0	95	0
Cliff 2-1	2021	2	0	0	0	5	28	118	5	0	90	0
Cliff 2-2	2021	7	0	8	2	13	70	401	5	0	75	0
Cliff 3	2021	1	0	2	0	10	5	39	2	0	12	0
Cliff 6	2021	70	0	0	2	50	34	247	2	0	39	0
Cliff 6-control	2021	68	0	0	6	51	38	256	2	0	56	0
M2	2021	14	0	2	3	9	37	197	8	0	40	0
M2 control	2021	10	0	0	1	23	72	245	2	0	72	0
M3-1	2021	35	0	0	0	315	31	199	4	0	69	0
M3-2	2021	3	0	9	0	24	41	137	3	0	110	0
M3-6-control	2021	39	0	6	0	51	49	148	0	0	83	0
M5-1	2021	83	0	63	0	219	18	51	0	0	64	0
M6-1	2021	35	0	14	0	333	27	139	3	0	98	0
M6-2	2021	184	0	57	3	188	40	383	12	0	57	0

Detector	Year	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-1	2022	10	0	1	0	6	0	12	0	1	1	0
Cliff 1-10	2022	183	0	27	0	70	76	134	0	0	43	0
Cliff 1-2	2022	204	0	26	0	170	52	482	0	24	70	0
Cliff 1-3	2022	138	0	54	0	107	64	184	0	5	65	0
Cliff 1-4	2022	185	0	76	0	103	177	227	0	2	107	0
Cliff 1-5	2022	166	0	23	0	34	78	157	0	1	42	0
Cliff 1-6	2022	168	0	30	0	52	57	172	0	0	24	0
Cliff 1-7	2022	175	0	33	0	99	65	218	0	2	30	0
Cliff 1-8	2022	31	0	2	0	13	0	1	0	0	3	0
Cliff 1-9	2022	8	0	0	0	2	0	0	0	0	1	0
Cliff 1-control	2022	378	0	51	0	145	81	1151	0	23	144	0
Cliff 2-1	2022	0	0	0	0	0	0	1	0	0	0	0
Cliff 2-2	2022	2	0	0	0	1	0	2	0	0	3	0
Cliff 2-control	2022	4	0	0	0	3	3	2	0	0	4	0
Cliff 3	2022	4	0	2	0	2	15	10	0	0	15	0
Cliff 3-control	2022	5	0	1	0	3	9	13	0	0	13	0
Cliff 6	2022	128	0	23	0	40	79	171	0	13	301	0
Cliff 6-control	2022	140	0	5	0	78	1	260	0	9	18	1
M2	2022	138	0	8	0	62	329	635	0	14	256	0
M2 control	2022	96	0	11	0	91	402	700	0	11	195	0
M3-1	2022	56	0	71	0	61	471	53	0	0	192	1
M3-2	2022	32	0	4	0	37	159	48	0	1	67	1
M3-6-control	2022	185	0	73	0	70	394	482	0	6	262	0
M5-1	2022	15	0	22	0	31	23	33	0	3	15	0
M6-1	2022	46	0	58	0	127	30	224	0	1	55	0
M6-2	2022	160	0	81	0	185	142	448	0	2	72	0
A1	2022	3	0	22	0	15	218	803	0	2	96	0
A4	2022	0	0	3	0	3	42	377	0	1	44	0
A5	2022	25	0	108	1	201	1191	540	0	1	190	0
A7	2022	10	0	121	25	157	350	1520	0	10	337	0
A9	2022	1	0	16	0	25	3089	895	0	9	935	0
A10	2022	14	0	65	5	41	497	829	0	8	139	0
A11	2022	3	0	14	0	18	131	608	0	1	106	0
A12	2022	8	0	26	1	32	177	1119	0	11	130	0
A13	2022	28	0	85	0	68	420	2541	0	37	421	0
A14	2022	12	0	37	22	45	248	1982	0	26	177	0
A16	2022	4	0	2	0	1	141	1875	0	48	128	0
A21	2022	8	0	31	5	23	310	683	0	14	106	0
A22	2022	392	0	2262	26	975	244	2036	0	25	424	0
A23	2022	27	0	135	4	61	424	2073	0	119	190	0
A28	2022	2	0	5	1	4	365	584	0	9	97	0
C2	2022	108	0	521	50	442	1885	12442	0	330	1826	0
C4	2022	1	0	20	1	36	418	1329	0	3	444	0
C5	2022	0	0	1	0	0	0	10	0	0	5	0
C7	2022	1	0	139	21	197	476	3311	0	52	874	0
C12	2022	14	0	394	6	290	203	2741	0	43	260	0
C13	2022	0	0	2	0	7	0	15	0	0	4	0
C14	2022	4	0	115	0	71	302	897	0	11	326	0
C15	2022	0	0	56	0	64	182	793	0	36	289	0
C16	2022	0	0	41	1	93	930	949	0	26	618	0
C17	2022	14	0	118	3	79	1638	6566	0	79	764	0
C10	2022	3	0	154	7	108	734	3951	0	83	1116	0
C19	2022	1	0	7	0	7	117	539	0	2	115	0
C21	2022	4	0	234	123	375	907	4164	0	50	1251	0
C20	2022	3	2	669	0	395	313	787	0	26	257	0
C23	2022	34	1	649	0	347	546	6832	0	70	821	0

Detector	Year	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C26	2022	0	0	109	0	70	0	24	0	0	5	0
C29	2022	226	0	2548	16	1997	756	2801	0	56	783	0
C31	2022	3	0	39	5	53	348	1639	0	4	609	0
C32	2022	0	0	206	2	116	224	652	0	6	208	0
C35	2022	3	0	37	8	44	221	1511	0	8	277	0
C36	2022	46	0	127	5	181	823	2691	0	62	555	0
C38	2022	1	0	16	0	52	247	829	0	3	379	0
Camp bat 1	2022	2	0	15	0	9	1233	205	0	4	288	0
Camp bat 2	2022	0	0	1	0	1	460	71	0	3	703	0
Camp bat 3	2022	0	0	1	0	2	1703	242	0	1	204	0
Camp bat 4	2022	0	0	0	0	1	1792	204	0	2	226	0
Camp bat 5	2022	0	0	1	0	1	1377	127	0	0	41	0
A6	2023	2	0	9	1	5	188	209	0	7	154	0
A18	2023	0	0	8	0	4	332	1157	0	9	374	0
B2	2023	13	0	40	0	28	111	253	0	19	49	0
B19	2023	10	0	49	1	8	98	364	0	9	87	0
C10	2023	3	0	73	0	13	131	490	0	8	148	0
C12	2023	16	0	348	0	152	145	579	0	11	191	0
C13	2023	5	0	114	0	103	126	564	0	10	203	0
C14	2023	0	0	7	0	19	30	182	0	3	99	3
C16	2023	4	0	153	2	6	614	911	0	45	501	0
C17	2023	41	0	30	1	32	1707	3315	0	54	394	0
C19	2023	8	0	35	0	13	350	782	0	12	468	0
C24	2023	0	0	152	0	91	212	741	0	15	256	0
C36	2023	41	0	88	39	47	249	1400	0	38	157	0
C37	2023	153	0	232	4	114	670	5325	0	294	1251	0
D1	2023	0	0	457	0	107	66	566	0	8	151	0
D2	2023	1	0	47	0	65	63	336	0	4	104	0
D3	2023	4	0	130	0	11	124	475	0	2	122	0
D4	2023	1	0	25	1	81	126	656	0	28	284	0
D5	2023	1	0	492	0	912	172	850	0	25	366	0
D6	2023	3	0	19	0	19	109	990	0	3	132	0
D7	2023	0	0	7	0	3	54	215	0	3	68	0
D8	2023	0	0	14	0	23	75	220	0	1	112	0
D9	2023	2	0	4	0	10	157	272	0	3	304	0
D11	2023	0	0	1	0	8	70	275	0	3	176	0
D12	2023	17	0	164	0	52	226	742	0	15	209	0
D13	2023	0	0	3	0	11	90	333	0	6	210	0
Cliff 1-1	2023	145	0	6	50	158	208	2005	52	0	364	0
Cliff 1-2	2023	805	0	29	160	1371	210	3810	106	0	261	0
Cliff 1-3	2023	883	0	17	85	1576	433	4342	92	0	476	0
Cliff 1-4	2023	386	0	32	60	791	369	4775	109	0	424	0
Cliff 1-5	2023	1231	0	29	108	857	311	3200	135	0	409	0
Cliff 1-6	2023	1852	0	20	157	627	385	2947	72	0	226	0
Cliff 1-7	2023	273	0	6	102	416	512	3367	62	0	334	0
Cliff 1-8	2023	1220	0	13	113	806	372	2015	43	0	436	0
Cliff 1-9	2023	1635	0	19	155	997	331	2320	55	0	258	0
Cliff 1-10	2023	407	0	2	29	268	140	784	33	0	152	0
Cliff 1-control	2023	236	0	9	47	283	280	1739	32	0	412	0
Cliff 1-control2	2023	130	0	17	64	157	345	1253	24	0	131	0
Cliff 1-control4	2023	530	0	34	14	315	98	451	3	0	55	0
Cliff 6	2023	221	0	17	116	258	6	1147	82	1	148	0

Detector	Year	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 6-control	2023	176	0	1	45	125	103	969	52	0	233	0
Cliff 6-control2	2023	185	0	3	45	176	220	2173	51	0	279	0
M3-1	2023	358	1	53	19	1502	224	711	21	0	332	0
M3-2	2023	55	0	9	4	658	258	579	6	0	438	0
M5-1	2023	104	0	18	0	553	101	339	4	0	246	0
M6-1	2023	276	0	47	0	1115	142	464	12	1	489	0
M6-2	2023	1929	0	84	72	2300	195	1347	40	0	232	0
M3-6-control	2023	104	0	9	45	157	126	520	14	0	554	0

Table D2. Average Number of Passes per Hour Recorded at Each Site.

Detector	Year	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A1	2021	0.35	0.00	0.25	0.00	0.10	0.84	3.00	0.00	0.08	0.47	0.00
A2	2021	0.08	0.00	0.12	0.00	0.03	1.72	1.62	0.00	0.03	0.42	0.00
A4	2021	0.06	0.00	0.01	0.00	0.04	0.07	0.38	0.00	0.00	0.04	0.00
A5	2021	0.00	0.00	0.03	0.00	0.01	0.00	0.02	0.00	0.00	0.01	0.00
A6	2021	0.03	0.00	0.08	0.00	0.00	0.12	0.32	0.00	0.00	0.08	0.00
A9	2021	0.02	0.00	0.21	0.00	0.27	4.74	4.16	0.00	0.16	1.32	0.00
A10	2021	0.02	0.00	0.00	0.00	0.04	0.16	0.51	0.00	0.00	0.14	0.00
A11	2021	0.04	0.00	0.09	0.00	0.05	2.62	1.71	0.00	0.05	0.68	0.00
A12	2021	0.03	0.00	0.04	0.00	0.01	0.15	0.34	0.00	0.01	0.10	0.00
A13	2021	0.08	0.00	0.07	0.00	0.07	0.28	2.07	0.00	0.07	0.32	0.00
A16	2021	0.02	0.00	0.00	0.00	0.00	0.50	7.41	0.00	0.09	0.29	0.00
A18	2021	0.00	0.00	0.01	0.00	0.00	1.87	2.54	0.00	0.07	1.16	0.00
A19	2021	0.01	0.00	0.06	0.00	0.03	1.27	0.90	0.00	0.01	0.31	0.00
A21	2021	0.02	0.00	0.03	0.00	0.05	0.68	0.85	0.00	0.03	0.23	0.00
A22	2021	0.00	0.00	2.25	0.00	0.27	0.24	1.20	0.00	0.00	0.55	0.00
A23	2021	0.07	0.00	0.34	0.00	0.03	1.38	3.67	0.00	0.05	0.37	0.00
A25	2021	0.01	0.00	0.00	0.00	0.01	0.79	2.32	0.00	0.05	0.54	0.00
A27	2021	0.01	0.00	0.05	0.01	0.02	0.56	1.41	0.00	0.03	0.34	0.00
A28	2021	0.00	0.00	0.03	0.01	0.01	1.71	3.91	0.00	0.03	0.49	0.00
B1	2021	0.10	0.00	0.04	0.00	0.05	0.48	1.23	0.00	0.05	0.40	0.00
B2	2021	0.12	0.00	0.23	0.00	0.28	3.44	2.23	0.00	0.07	0.65	0.00
B4	2021	0.13	0.00	0.92	0.00	0.54	0.13	0.46	0.00	0.03	0.10	0.00
B5	2021	0.00	0.00	0.19	0.00	0.20	1.34	0.50	0.00	0.00	0.29	0.00
B6	2021	0.00	0.00	0.03	0.00	0.05	0.10	0.17	0.00	0.00	0.08	0.00
B9	2021	0.00	0.00	0.04	0.00	0.04	0.49	0.43	0.00	0.00	1.18	0.00
B10	2021	0.02	0.00	0.58	0.00	0.21	0.25	0.29	0.00	0.00	0.33	0.00
B11	2021	0.02	0.00	0.06	0.00	0.01	1.86	1.84	0.00	0.05	0.55	0.00
B12	2021	0.00	0.00	0.08	0.00	0.00	0.23	0.52	0.00	0.00	0.17	0.00
B13	2021	0.01	0.00	0.13	0.00	0.01	0.88	2.85	0.00	0.07	0.61	0.00
B16	2021	0.03	0.00	0.03	0.00	0.01	0.94	8.85	0.00	0.08	0.74	0.00
B18	2021	0.03	0.00	0.36	0.00	0.23	8.83	5.26	0.00	0.09	1.82	0.00
B19	2021	0.04	0.00	0.06	0.00	0.14	2.50	1.32	0.00	0.02	0.94	0.00
B21	2021	0.00	0.00	0.02	0.00	0.01	0.27	0.90	0.00	0.02	0.12	0.00
B22	2021	0.29	0.00	2.37	0.00	1.37	6.71	2.59	0.00	0.02	0.83	0.00
B23	2021	0.42	0.00	1.54	0.00	0.71	6.14	7.25	0.00	0.17	1.41	0.00
B27	2021	0.00	0.00	0.02	0.00	0.01	0.60	1.40	0.00	0.00	0.46	0.00
B28	2021	0.00	0.00	0.00	0.00	0.00	0.80	5.29	0.00	0.03	0.72	0.00
Cliff 1-1	2021	0.15	0.00	0.01	0.00	0.59	0.18	1.44	0.03	0.00	0.81	0.00
Cliff 1-2	2021	1.36	0.00	0.03	0.00	1.42	0.73	3.47	0.09	0.00	0.62	0.00
Cliff 1-3	2021	1.28	0.00	0.04	0.00	1.39	0.69	2.31	0.04	0.00	0.67	0.00
Cliff 1-4	2021	0.53	0.00	1.28	0.00	1.52	0.30	1.39	0.01	0.00	0.74	0.00
Cliff 1-5	2021	3.51	0.00	0.05	0.01	1.70	0.51	2.32	0.03	0.00	0.57	0.00
Cliff 1-6	2021	2.21	0.00	0.04	0.00	2.68	0.42	1.20	0.01	0.00	0.83	0.00
Cliff 2-1	2021	0.02	0.00	0.00	0.00	0.05	0.27	1.13	0.05	0.00	0.87	0.00
Cliff 2-2	2021	0.07	0.00	0.08	0.02	0.13	0.68	3.90	0.05	0.00	0.73	0.00
Cliff 3	2021	0.01	0.00	0.03	0.00	0.15	0.07	0.57	0.03	0.00	0.17	0.00
Cliff 6	2021	0.61	0.00	0.00	0.02	0.44	0.30	2.15	0.02	0.00	0.34	0.00
Cliff 6-control	2021	0.59	0.00	0.00	0.05	0.44	0.33	2.23	0.02	0.00	0.49	0.00
M2	2021	0.12	0.00	0.02	0.03	0.08	0.32	1.72	0.07	0.00	0.35	0.00
M2 control	2021	0.09	0.00	0.00	0.01	0.20	0.64	2.14	0.02	0.00	0.63	0.00
M3-1	2021	0.30	0.00	0.00	0.00	2.74	0.27	1.72	0.04	0.00	0.60	0.00
M3-2	2021	0.03	0.00	0.08	0.00	0.21	0.36	1.20	0.03	0.00	0.96	0.00
M3-6-control	2021	0.34	0.00	0.05	0.00	0.45	0.43	1.30	0.00	0.00	0.72	0.00
M5-1	2021	0.72	0.00	0.55	0.00	1.93	0.16	0.45	0.00	0.00	0.56	0.00
M6-1	2021	0.30	0.00	0.12	0.00	2.89	0.23	1.20	0.03	0.00	0.86	0.00
M6-2	2021	1.59	0.00	0.50	0.03	1.64	0.35	3.33	0.11	0.00	0.50	0.00
Cliff 1-1	2022	0.03	0.00	0.00	0.00	0.02	0.00	0.04	0.00	0.00	0.00	0.00

Detector	Year	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-10	2022	0.63	0.00	0.09	0.00	0.24	0.26	0.47	0.00	0.00	0.15	0.00
Cliff 1-2	2022	0.70	0.00	0.09	0.00	0.60	0.18	1.69	0.00	0.08	0.24	0.00
Cliff 1-3	2022	0.47	0.00	0.19	0.00	0.37	0.22	0.64	0.00	0.02	0.23	0.00
Cliff 1-4	2022	0.64	0.00	0.26	0.00	0.37	0.67	0.85	0.00	0.01	0.39	0.00
Cliff 1-5	2022	0.75	0.00	0.10	0.00	0.15	0.36	0.72	0.00	0.00	0.19	0.00
Cliff 1-6	2022	0.58	0.00	0.10	0.00	0.18	0.20	0.60	0.00	0.00	0.08	0.00
Cliff 1-7	2022	0.62	0.00	0.12	0.00	0.34	0.21	0.72	0.00	0.01	0.10	0.00
Cliff 1-8	2022	0.32	0.00	0.02	0.00	0.13	0.00	0.01	0.00	0.00	0.03	0.00
Cliff 1-9	2022	0.19	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.02	0.00
Cliff 1-control	2022	1.31	0.00	0.18	0.00	0.50	0.29	4.04	0.00	0.08	0.50	0.00
Cliff 2-1	2022	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
Cliff 2-2	2022	0.06	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.05	0.00
Cliff 2-control	2022	0.04	0.00	0.00	0.00	0.03	0.03	0.02	0.00	0.00	0.04	0.00
Cliff 3	2022	0.02	0.00	0.01	0.00	0.01	0.06	0.04	0.00	0.00	0.06	0.00
Cliff 3-control	2022	0.02	0.00	0.00	0.00	0.01	0.04	0.06	0.00	0.00	0.06	0.00
Cliff 6	2022	0.82	0.00	0.12	0.00	0.21	1.40	1.29	0.00	0.07	5.86	0.00
Cliff 6-control	2022	0.61	0.00	0.02	0.00	0.34	0.00	1.16	0.00	0.04	0.08	0.00
M2	2022	0.30	0.00	0.02	0.00	0.14	0.76	1.47	0.00	0.03	0.59	0.00
M2 control	2022	0.22	0.00	0.03	0.00	0.21	0.96	1.66	0.00	0.03	0.47	0.00
M3-1	2022	0.22	0.00	0.29	0.00	0.25	1.83	0.21	0.00	0.00	0.75	0.00
M3-2	2022	0.12	0.00	0.02	0.00	0.15	0.62	0.19	0.00	0.00	0.26	0.00
M3-6-control	2022	0.44	0.00	0.17	0.00	0.16	0.88	1.15	0.00	0.01	0.60	0.00
M5-1	2022	0.06	0.00	0.09	0.00	0.13	0.09	0.14	0.00	0.01	0.06	0.00
M6-1	2022	0.19	0.00	0.24	0.00	0.52	0.12	0.93	0.00	0.00	0.22	0.00
M6-2	2022	0.65	0.00	0.33	0.00	0.76	0.56	1.87	0.00	0.01	0.29	0.00
A1	2022	0.01	0.00	0.10	0.00	0.07	1.04	3.83	0.00	0.01	0.46	0.00
A4	2022	0.00	0.00	0.01	0.00	0.01	0.09	0.78	0.00	0.00	0.09	0.00
A5	2022	0.05	0.00	0.23	0.00	0.42	2.53	1.14	0.00	0.00	0.40	0.00
A7	2022	0.03	0.00	0.30	0.06	0.39	0.88	3.73	0.00	0.02	0.83	0.00
A9	2022	0.00	0.00	0.06	0.00	0.10	11.84	3.44	0.00	0.03	3.58	0.00
A10	2022	0.03	0.00	0.14	0.01	0.09	1.05	1.74	0.00	0.02	0.29	0.00
A11	2022	0.01	0.00	0.06	0.00	0.07	0.54	2.50	0.00	0.00	0.43	0.00
A12	2022	0.02	0.00	0.06	0.00	0.07	0.38	2.38	0.00	0.02	0.27	0.00
A13	2022	0.06	0.00	0.18	0.00	0.15	0.85	5.11	0.00	0.07	0.84	0.00
A14	2022	0.03	0.00	0.09	0.05	0.10	0.61	4.81	0.00	0.06	0.43	0.00
A16	2022	0.01	0.00	0.01	0.00	0.00	0.49	6.55	0.00	0.17	0.45	0.00
A21	2022	0.01	0.00	0.05	0.01	0.04	0.57	1.26	0.00	0.03	0.19	0.00
A22	2022	0.83	0.00	4.78	0.05	2.07	0.51	4.31	0.00	0.05	0.89	0.00
A23	2022	0.06	0.00	0.30	0.02	0.13	0.90	4.63	0.00	0.25	0.41	0.00
A28	2022	0.01	0.00	0.02	0.00	0.02	1.55	2.49	0.00	0.04	0.41	0.00
C2	2022	0.26	0.00	1.28	0.12	1.10	4.64	30.71	0.00	0.80	4.48	0.00
C4	2022	0.00	0.00	0.04	0.00	0.07	0.88	2.78	0.00	0.01	0.93	0.00
C5	2022	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.02	0.00
C7	2022	0.00	0.00	0.33	0.05	0.46	1.09	7.60	0.00	0.12	2.00	0.00
C12	2022	0.03	0.00	0.83	0.01	0.60	0.42	5.86	0.00	0.09	0.55	0.00
C13	2022	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.01	0.00
C14	2022	0.02	0.00	0.46	0.00	0.28	1.20	3.57	0.00	0.04	1.29	0.00
C15	2022	0.00	0.00	0.57	0.00	0.69	1.87	8.02	0.00	0.36	2.88	0.00
C16	2022	0.00	0.00	0.09	0.00	0.20	2.03	2.03	0.00	0.05	1.33	0.00
C17	2022	0.03	0.00	0.26	0.01	0.17	3.42	13.94	0.00	0.17	1.61	0.00
C10	2022	0.01	0.00	0.38	0.02	0.26	1.83	9.76	0.00	0.21	2.78	0.00
C19	2022	0.00	0.00	0.03	0.00	0.03	0.54	2.47	0.00	0.01	0.53	0.00
C21	2022	0.01	0.00	0.49	0.26	0.81	1.95	8.92	0.00	0.11	2.70	0.00
C20	2022	0.01	0.01	2.63	0.00	1.56	1.24	3.11	0.00	0.10	1.01	0.00
C23	2022	0.13	0.00	2.47	0.00	1.32	2.09	26.05	0.00	0.27	3.14	0.00
C26	2022	0.00	0.00	0.54	0.00	0.35	0.00	0.12	0.00	0.00	0.02	0.00

Detector	Year	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C29	2022	0.44	0.00	4.92	0.03	3.89	1.45	5.31	0.00	0.10	1.49	0.00
C31	2022	0.01	0.00	0.09	0.01	0.12	0.80	3.69	0.00	0.01	1.36	0.00
C32	2022	0.00	0.00	0.39	0.00	0.22	0.44	1.29	0.00	0.01	0.41	0.00
C35	2022	0.01	0.00	0.09	0.02	0.10	0.53	3.62	0.00	0.02	0.66	0.00
C36	2022	0.09	0.00	0.26	0.01	0.37	1.70	5.57	0.00	0.12	1.14	0.00
C38	2022	0.00	0.00	0.03	0.00	0.11	0.51	1.72	0.00	0.01	0.79	0.00
Camp bat 1	2022	0.12	0.00	0.87	0.00	0.52	71.74	11.94	0.00	0.23	16.76	0.00
Camp bat 2	2022	0.00	0.00	0.06	0.00	0.06	26.81	4.14	0.00	0.18	40.98	0.00
Camp bat 3	2022	0.00	0.00	0.06	0.00	0.12	99.33	14.12	0.00	0.06	11.90	0.00
Camp bat 4	2022	0.00	0.00	0.00	0.00	0.06	104.45	11.90	0.00	0.12	13.18	0.00
Camp bat 5	2022	0.00	0.00	0.06	0.00	0.06	80.29	7.41	0.00	0.00	2.39	0.00
A6	2023	0.01	0.00	0.02	0.00	0.01	0.47	0.52	0.00	0.02	0.38	0.00
A18	2023	0.00	0.00	0.02	0.00	0.01	0.80	2.78	0.00	0.02	0.90	0.00
B2	2023	0.03	0.00	0.10	0.00	0.07	0.28	0.65	0.00	0.05	0.13	0.00
B19	2023	0.02	0.00	0.12	0.00	0.02	0.24	0.89	0.00	0.02	0.21	0.00
C10	2023	0.01	0.00	0.19	0.00	0.03	0.33	1.25	0.00	0.02	0.38	0.00
C12	2023	0.04	0.00	0.87	0.00	0.38	0.36	1.44	0.00	0.03	0.48	0.00
C13	2023	0.01	0.00	0.30	0.00	0.28	0.34	1.50	0.00	0.03	0.54	0.00
C14	2023	0.00	0.00	0.02	0.00	0.05	0.08	0.47	0.00	0.01	0.25	0.01
C16	2023	0.01	0.00	0.38	0.00	0.01	1.54	2.27	0.00	0.11	1.25	0.00
C17	2023	0.10	0.00	0.07	0.00	0.08	4.30	8.33	0.00	0.14	0.99	0.00
C19	2023	0.02	0.00	0.09	0.00	0.03	0.86	1.91	0.00	0.03	1.15	0.00
C24	2023	0.00	0.00	0.37	0.00	0.23	0.52	1.82	0.00	0.04	0.63	0.00
C36	2023	0.10	0.00	0.21	0.09	0.11	0.59	3.28	0.00	0.09	0.37	0.00
C37	2023	0.40	0.00	0.61	0.01	0.30	1.80	13.89	0.00	0.76	3.31	0.00
D1	2023	0.00	0.00	1.16	0.00	0.27	0.17	1.45	0.00	0.02	0.39	0.00
D2	2023	0.00	0.00	0.12	0.00	0.16	0.16	0.83	0.00	0.01	0.26	0.00
D3	2023	0.01	0.00	0.33	0.00	0.03	0.31	1.19	0.00	0.00	0.31	0.00
D4	2023	0.00	0.00	0.06	0.00	0.20	0.31	1.64	0.00	0.07	0.71	0.00
D5	2023	0.00	0.00	1.18	0.00	2.18	0.41	2.02	0.00	0.06	0.87	0.00
D6	2023	0.01	0.00	0.05	0.00	0.05	0.27	2.43	0.00	0.01	0.32	0.00
D7	2023	0.00	0.00	0.02	0.00	0.01	0.13	0.54	0.00	0.01	0.17	0.00
D8	2023	0.00	0.00	0.03	0.00	0.06	0.18	0.54	0.00	0.00	0.28	0.00
D9	2023	0.00	0.00	0.01	0.00	0.02	0.38	0.65	0.00	0.01	0.73	0.00
D11	2023	0.00	0.00	0.00	0.00	0.02	0.19	0.73	0.00	0.01	0.47	0.00
D12	2023	0.04	0.00	0.42	0.00	0.13	0.58	1.90	0.00	0.04	0.54	0.00
D13	2023	0.00	0.00	0.01	0.00	0.03	0.22	0.82	0.00	0.01	0.51	0.00
Cliff 1-1	2023	0.35	0.00	0.02	0.12	0.39	0.52	5.00	0.13	0.00	0.91	0.00
Cliff 1-2	2023	1.99	0.00	0.07	0.39	3.33	0.52	9.49	0.26	0.00	0.65	0.00
Cliff 1-3	2023	2.20	0.00	0.04	0.21	3.86	1.07	10.88	0.24	0.00	1.18	0.00
Cliff 1-4	2023	0.97	0.00	0.08	0.15	1.97	0.92	12.47	0.28	0.00	1.11	0.00
Cliff 1-5	2023	3.27	0.00	0.08	0.27	2.25	0.83	8.48	0.38	0.00	1.09	0.00
Cliff 1-6	2023	5.23	0.00	0.06	0.42	1.75	1.10	8.37	0.21	0.00	0.64	0.00
Cliff 1-7	2023	0.67	0.00	0.01	0.25	1.03	1.27	8.27	0.15	0.00	0.82	0.00
Cliff 1-8	2023	3.03	0.00	0.03	0.28	1.97	0.92	4.98	0.11	0.00	1.08	0.00
Cliff 1-9	2023	4.44	0.00	0.05	0.41	2.67	0.90	6.31	0.15	0.00	0.70	0.00
Cliff 1-10	2023	1.06	0.00	0.01	0.07	0.70	0.36	2.03	0.09	0.00	0.39	0.00
Cliff 1-control	2023	0.59	0.00	0.02	0.11	0.68	0.69	4.30	0.08	0.00	1.01	0.00
Cliff 1-control2	2023	0.32	0.00	0.04	0.16	0.39	0.87	3.10	0.06	0.00	0.32	0.00
Cliff 1-control4	2023	6.82	0.00	0.43	0.25	4.14	1.47	6.35	0.05	0.00	0.78	0.00
Cliff 6	2023	0.54	0.00	0.04	0.27	0.63	0.01	2.83	0.21	0.00	0.37	0.00
Cliff 6-control	2023	0.44	0.00	0.00	0.11	0.31	0.25	2.37	0.13	0.00	0.58	0.00

Detector	Year	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 6-control2	2023	0.46	0.00	0.01	0.11	0.44	0.54	5.35	0.13	0.00	0.68	0.00
M3-1	2023	1.00	0.00	0.15	0.05	4.14	0.60	1.96	0.06	0.00	0.89	0.00
M3-2	2023	0.14	0.00	0.02	0.01	1.64	0.62	1.46	0.01	0.00	1.07	0.00
M5-1	2023	0.26	0.00	0.05	0.00	1.39	0.24	0.84	0.01	0.00	0.58	0.00
M6-1	2023	0.69	0.00	0.12	0.00	2.79	0.33	1.14	0.03	0.00	1.14	0.00
M6-2	2023	4.84	0.00	0.21	0.18	5.73	0.47	3.33	0.10	0.00	0.54	0.00
M3-6-control	2023	0.25	0.00	0.02	0.10	0.37	0.31	1.26	0.03	0.00	1.30	0.00

Table D3. Average Number of Passes per Hour Recorded at Each Site on Each Survey Night.

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A1	2021-06-01	0.00	0.00	0.00	0.00	0.00	1.85	2.77	0.00	0.00	0.23	0.00
A1	2021-06-02	0.00	0.00	0.00	0.00	0.00	0.23	3.71	0.00	0.12	0.93	0.00
A1	2021-06-03	0.00	0.00	0.12	0.00	0.12	0.58	0.58	0.00	0.00	0.00	0.00
A1	2021-06-04	0.12	0.00	0.12	0.00	0.00	0.70	0.82	0.00	0.00	0.35	0.00
A1	2021-06-05	0.12	0.00	0.00	0.00	0.12	0.23	1.29	0.00	0.00	0.23	0.00
A1	2021-06-06	0.00	0.00	0.23	0.00	0.12	1.17	1.29	0.00	0.00	0.35	0.00
A1	2021-06-07	0.12	0.00	0.00	0.00	0.00	0.94	1.29	0.00	0.00	0.12	0.00
A1	2021-06-08	2.36	0.00	0.83	0.00	0.47	1.89	15.21	0.00	0.59	1.89	0.00
A1	2021-06-09	0.47	0.00	0.94	0.00	0.12	0.00	0.00	0.00	0.00	0.12	0.00
A2	2021-06-01	0.12	0.00	0.23	0.00	0.00	0.35	1.85	0.00	0.00	0.23	0.00
A2	2021-06-02	0.23	0.00	0.35	0.00	0.12	1.74	1.62	0.00	0.00	0.12	0.00
A2	2021-06-03	0.23	0.00	0.00	0.00	0.00	0.12	0.70	0.00	0.00	0.12	0.00
A2	2021-06-04	0.00	0.00	0.00	0.00	0.00	1.52	1.98	0.00	0.12	0.23	0.00
A2	2021-06-05	0.00	0.00	0.12	0.00	0.00	5.15	2.69	0.00	0.12	1.05	0.00
A2	2021-06-06	0.00	0.00	0.12	0.00	0.12	2.11	1.17	0.00	0.00	0.59	0.00
A2	2021-06-07	0.00	0.00	0.00	0.00	0.00	1.06	1.29	0.00	0.00	0.59	0.00
A4	2021-06-01	0.23	0.00	0.00	0.00	0.12	0.12	0.46	0.00	0.00	0.12	0.00
A4	2021-06-02	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.12	0.00
A4	2021-06-03	0.00	0.00	0.00	0.00	0.12	0.00	0.81	0.00	0.00	0.00	0.00
A4	2021-06-04	0.00	0.00	0.12	0.00	0.12	0.00	0.12	0.00	0.00	0.12	0.00
A4	2021-06-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2021-06-06	0.00	0.00	0.00	0.00	0.00	0.23	0.70	0.00	0.00	0.00	0.00
A4	2021-06-07	0.23	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
A4	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00
A5	2021-05-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-01	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-04	0.00	0.00	0.23	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
A5	2021-06-05	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
A5	2021-06-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-08	0.00	0.00	0.35	0.00	0.12	0.00	0.00	0.00	0.00	0.12	0.00
A5	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
A5	2021-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-15	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-16	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.12	0.12	0.00
A5	2021-06-17	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
A5	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-25	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
A5	2021-06-26	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2021-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	2021-06-01	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.23	0.00
A6	2021-06-02	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	2021-06-03	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.12	0.00
A6	2021-06-04	0.12	0.00	0.23	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
A6	2021-06-05	0.12	0.00	0.12	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A6	2021-06-06	0.00	0.00	0.00	0.00	0.00	0.23	0.35	0.00	0.00	0.23	0.00
A6	2021-06-07	0.00	0.00	0.00	0.00	0.00	0.23	0.58	0.00	0.00	0.00	0.00
A9	2021-06-02	0.00	0.00	0.12	0.00	0.00	16.01	1.04	0.00	0.00	1.28	0.00
A9	2021-06-03	0.00	0.00	0.23	0.00	0.23	1.16	1.28	0.00	0.00	0.58	0.00
A9	2021-06-04	0.00	0.00	0.35	0.00	0.23	3.39	3.50	0.00	0.00	1.28	0.00
A9	2021-06-05	0.12	0.00	0.12	0.00	0.23	1.52	2.11	0.00	0.12	1.40	0.00
A9	2021-06-06	0.00	0.00	0.12	0.00	0.23	3.98	2.46	0.00	0.00	1.64	0.00
A9	2021-06-07	0.00	0.00	0.35	0.00	0.70	2.35	14.56	0.00	0.82	1.76	0.00
A10	2021-06-02	0.12	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.12	0.00
A10	2021-06-03	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
A10	2021-06-04	0.00	0.00	0.00	0.00	0.12	0.23	1.75	0.00	0.00	0.35	0.00
A10	2021-06-05	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.12	0.00
A10	2021-06-06	0.00	0.00	0.00	0.00	0.12	0.23	0.23	0.00	0.00	0.00	0.00
A10	2021-06-07	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.23	0.00
A11	2021-06-02	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.00	0.12	0.00
A11	2021-06-03	0.23	0.00	0.12	0.00	0.12	0.00	0.23	0.00	0.00	0.12	0.00
A11	2021-06-04	0.00	0.00	0.23	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
A11	2021-06-05	0.12	0.00	0.00	0.00	0.00	0.94	0.82	0.00	0.23	0.47	0.00
A11	2021-06-06	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.12	0.00
A11	2021-06-07	0.00	0.00	0.00	0.00	0.00	0.23	0.35	0.00	0.00	0.12	0.00
A11	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A11	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A11	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A11	2021-06-11	0.12	0.00	0.12	0.00	0.12	1.30	0.12	0.00	0.00	0.12	0.00
A11	2021-06-12	0.00	0.00	0.12	0.00	0.24	2.60	2.13	0.00	0.24	1.06	0.00
A11	2021-06-13	0.00	0.00	0.36	0.00	0.47	4.62	1.78	0.00	0.00	0.36	0.00
A11	2021-06-14	0.00	0.00	0.36	0.00	0.00	0.47	0.24	0.00	0.00	0.12	0.00
A11	2021-06-15	0.48	0.00	0.24	0.00	0.12	0.36	0.36	0.00	0.00	0.12	0.00
A11	2021-06-16	0.00	0.00	0.00	0.00	0.00	9.15	2.49	0.00	0.12	0.71	0.00
A11	2021-06-17	0.00	0.00	0.00	0.00	0.00	2.49	3.92	0.00	0.00	0.71	0.00
A11	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.12	0.00
A11	2021-06-19	0.00	0.00	0.24	0.00	0.12	26.97	4.28	0.00	0.00	6.65	0.00
A11	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A11	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A11	2021-06-22	0.00	0.00	0.00	0.00	0.00	6.90	4.88	0.00	0.00	0.71	0.00
A11	2021-06-23	0.00	0.00	0.00	0.00	0.00	2.14	1.90	0.00	0.12	0.71	0.00
A11	2021-06-24	0.00	0.00	0.12	0.00	0.00	1.43	6.42	0.00	0.24	0.59	0.00
A11	2021-06-25	0.00	0.00	0.24	0.00	0.00	2.61	8.20	0.00	0.36	2.97	0.00
A11	2021-06-26	0.00	0.00	0.00	0.00	0.00	2.85	3.44	0.00	0.00	1.07	0.00
A12	2021-06-02	0.12	0.00	0.00	0.00	0.12	0.00	0.12	0.00	0.00	0.00	0.00
A12	2021-06-03	0.00	0.00	0.00	0.00	0.00	0.12	0.23	0.00	0.00	0.00	0.00
A12	2021-06-04	0.12	0.00	0.12	0.00	0.00	0.23	0.12	0.00	0.00	0.35	0.00
A12	2021-06-05	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.12	0.00
A12	2021-06-06	0.00	0.00	0.12	0.00	0.00	0.35	0.12	0.00	0.00	0.12	0.00
A12	2021-06-07	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A12	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.47	1.41	0.00	0.12	0.23	0.00
A12	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A13	2021-06-02	0.00	0.00	0.00	0.00	0.12	0.35	0.58	0.00	0.12	0.12	0.00
A13	2021-06-03	0.00	0.00	0.12	0.00	0.00	0.23	0.93	0.00	0.00	0.00	0.00
A13	2021-06-04	0.12	0.00	0.12	0.00	0.23	0.23	2.79	0.00	0.00	0.47	0.00
A13	2021-06-05	0.12	0.00	0.00	0.00	0.00	0.35	3.73	0.00	0.00	0.82	0.00
A13	2021-06-06	0.23	0.00	0.00	0.00	0.00	0.35	1.29	0.00	0.23	0.35	0.00
A13	2021-06-07	0.00	0.00	0.12	0.00	0.00	0.23	1.99	0.00	0.00	0.35	0.00
A13	2021-06-08	0.12	0.00	0.12	0.00	0.12	0.23	3.16	0.00	0.12	0.12	0.00
A16	2021-06-03	0.00	0.00	0.00	0.00	0.12	0.00	0.58	0.00	0.00	0.00	0.00
A16	2021-06-04	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
A16	2021-06-05	0.00	0.00	0.00	0.00	0.00	0.12	9.67	0.00	0.00	0.23	0.00
A16	2021-06-06	0.00	0.00	0.00	0.00	0.00	0.12	2.22	0.00	0.12	0.23	0.00
A16	2021-06-07	0.00	0.00	0.00	0.00	0.00	0.35	2.22	0.00	0.00	0.00	0.00
A16	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.12	0.00
A16	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A16	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.24	2.83	0.00	0.24	0.12	0.00
A16	2021-06-11	0.12	0.00	0.00	0.00	0.00	0.35	54.10	0.00	0.59	1.77	0.00
A16	2021-06-12	0.00	0.00	0.00	0.00	0.00	1.18	15.00	0.00	0.12	0.59	0.00
A16	2021-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
A16	2021-06-14	0.00	0.00	0.00	0.00	0.00	0.24	0.83	0.00	0.00	0.00	0.00
A16	2021-06-15	0.36	0.00	0.00	0.00	0.00	0.95	8.08	0.00	0.00	0.48	0.00
A16	2021-06-16	0.00	0.00	0.00	0.00	0.00	2.14	10.69	0.00	0.00	0.71	0.00
A16	2021-06-17	0.00	0.00	0.00	0.00	0.00	0.83	8.08	0.00	0.48	0.48	0.00
A16	2021-06-18	0.12	0.00	0.12	0.00	0.00	0.00	0.71	0.00	0.00	0.12	0.00
A16	2021-06-19	0.00	0.00	0.00	0.00	0.00	0.59	24.00	0.00	0.00	0.83	0.00
A16	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
A16	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A16	2021-06-22	0.00	0.00	0.00	0.00	0.00	0.71	21.78	0.00	0.00	0.60	0.00
A16	2021-06-23	0.00	0.00	0.00	0.00	0.00	0.36	2.38	0.00	0.00	0.12	0.00
A16	2021-06-24	0.00	0.00	0.00	0.00	0.00	1.43	5.23	0.00	0.12	0.24	0.00
A16	2021-06-25	0.00	0.00	0.00	0.00	0.00	1.43	9.03	0.00	0.59	0.71	0.00
A16	2021-06-26	0.00	0.00	0.00	0.00	0.00	1.42	3.68	0.00	0.00	0.00	0.00
A16	2021-06-27	0.00	0.00	0.00	0.00	0.00	0.12	0.47	0.00	0.00	0.00	0.00
A18	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.59	1.17	0.00	0.00	0.47	0.00
A18	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.35	0.12	0.00	0.00	0.24	0.00
A18	2021-06-10	0.00	0.00	0.00	0.00	0.00	2.36	0.00	0.00	0.00	0.59	0.00
A18	2021-06-11	0.00	0.00	0.00	0.00	0.00	7.19	1.41	0.00	0.00	1.18	0.00
A18	2021-06-12	0.00	0.00	0.00	0.00	0.00	0.94	2.72	0.00	0.00	1.30	0.00
A18	2021-06-13	0.00	0.00	0.00	0.00	0.00	1.54	2.37	0.00	0.24	1.30	0.00
A18	2021-06-14	0.00	0.00	0.00	0.00	0.00	0.83	0.12	0.00	0.00	0.24	0.00
A18	2021-06-15	0.00	0.00	0.24	0.00	0.00	1.90	1.07	0.00	0.00	2.02	0.00
A18	2021-06-16	0.00	0.00	0.00	0.00	0.00	3.92	5.11	0.00	0.24	1.78	0.00
A18	2021-06-17	0.00	0.00	0.00	0.00	0.00	1.31	4.87	0.00	0.12	1.90	0.00
A18	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.24	0.60	0.00	0.00	0.24	0.00
A18	2021-06-19	0.00	0.00	0.00	0.00	0.00	3.80	2.85	0.00	0.24	2.97	0.00
A18	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A18	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00
A18	2021-06-22	0.00	0.00	0.00	0.00	0.00	1.67	4.76	0.00	0.12	1.79	0.00
A18	2021-06-23	0.00	0.00	0.00	0.00	0.00	1.31	1.78	0.00	0.12	0.59	0.00
A18	2021-06-24	0.00	0.00	0.00	0.00	0.00	3.56	4.87	0.00	0.12	2.38	0.00
A18	2021-06-25	0.00	0.00	0.00	0.00	0.00	1.78	10.10	0.00	0.12	1.66	0.00
A18	2021-06-26	0.00	0.00	0.00	0.00	0.00	1.90	4.39	0.00	0.00	1.42	0.00
A19	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.35	0.59	0.00	0.00	0.12	0.00
A19	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.24	0.59	0.00	0.00	0.12	0.00
A19	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00
A19	2021-06-11	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.36	0.00
A19	2021-06-12	0.00	0.00	0.24	0.00	0.12	0.95	1.78	0.00	0.00	0.24	0.00
A19	2021-06-13	0.12	0.00	0.24	0.00	0.00	0.48	0.71	0.00	0.00	0.00	0.00
A19	2021-06-14	0.12	0.00	0.00	0.00	0.12	1.07	0.95	0.00	0.00	0.24	0.00
A19	2021-06-15	0.00	0.00	0.00	0.00	0.00	0.60	0.48	0.00	0.00	0.12	0.00
A19	2021-06-16	0.00	0.00	0.00	0.00	0.00	1.55	1.19	0.00	0.00	1.07	0.00
A19	2021-06-17	0.00	0.00	0.60	0.00	0.00	0.72	2.27	0.00	0.00	0.72	0.00
A19	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00
A19	2021-06-19	0.00	0.00	0.00	0.00	0.00	3.94	0.96	0.00	0.00	0.48	0.00
A19	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A19	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A19	2021-06-22	0.00	0.00	0.00	0.00	0.00	0.36	0.60	0.00	0.00	0.12	0.00
A19	2021-06-23	0.00	0.00	0.00	0.00	0.00	6.21	0.84	0.00	0.00	1.08	0.00
A19	2021-06-24	0.00	0.00	0.00	0.00	0.00	3.34	2.50	0.00	0.12	0.48	0.00
A19	2021-06-25	0.00	0.00	0.12	0.00	0.12	1.79	2.39	0.00	0.12	0.60	0.00
A19	2021-06-26	0.00	0.00	0.00	0.00	0.12	0.95	1.19	0.00	0.00	0.12	0.00
A21	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
A21	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.35	0.47	0.00	0.35	0.24	0.00
A21	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A21	2021-06-11	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.12	0.00
A21	2021-06-12	0.00	0.00	0.24	0.00	0.12	0.59	1.06	0.00	0.12	0.24	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A21	2021-06-13	0.00	0.00	0.00	0.00	0.00	4.03	0.00	0.00	0.00	0.36	0.00
A21	2021-06-14	0.00	0.00	0.00	0.00	0.00	0.12	0.36	0.00	0.00	0.00	0.00
A21	2021-06-15	0.00	0.00	0.00	0.00	0.00	0.71	0.24	0.00	0.00	0.00	0.00
A21	2021-06-16	0.00	0.00	0.00	0.00	0.00	1.19	0.83	0.00	0.00	0.59	0.00
A21	2021-06-17	0.00	0.00	0.00	0.00	0.00	0.59	0.83	0.00	0.00	0.36	0.00
A21	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A21	2021-06-19	0.00	0.00	0.00	0.00	0.00	1.19	2.14	0.00	0.00	0.36	0.00
A21	2021-06-20	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
A21	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A21	2021-06-22	0.00	0.00	0.00	0.00	0.12	0.48	0.36	0.00	0.00	0.24	0.00
A21	2021-06-23	0.24	0.00	0.12	0.00	0.00	0.59	1.78	0.00	0.00	0.12	0.00
A21	2021-06-24	0.00	0.00	0.00	0.00	0.12	0.59	4.87	0.00	0.12	0.48	0.00
A21	2021-06-25	0.12	0.00	0.00	0.00	0.00	0.48	1.07	0.00	0.00	0.48	0.00
A21	2021-06-26	0.00	0.00	0.00	0.00	0.00	1.66	1.54	0.00	0.00	0.71	0.00
A21	2021-06-27	0.00	0.00	0.24	0.00	0.24	1.54	1.78	0.00	0.00	0.47	0.00
A21	2021-06-28	0.00	0.00	0.00	0.00	0.24	0.24	0.36	0.00	0.00	0.00	0.00
A21	2021-06-29	0.00	0.00	0.00	0.00	0.00	0.71	0.83	0.00	0.12	0.12	0.00
A22	2021-06-08	0.00	0.00	3.06	0.00	0.94	0.12	1.41	0.00	0.00	0.47	0.00
A22	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A22	2021-06-10	0.00	0.00	0.83	0.00	0.12	0.00	0.12	0.00	0.00	0.24	0.00
A22	2021-06-11	0.00	0.00	0.59	0.00	0.24	0.36	1.90	0.00	0.00	1.66	0.00
A22	2021-06-12	0.00	0.00	1.19	0.00	0.24	0.12	0.71	0.00	0.00	0.83	0.00
A22	2021-06-13	0.00	0.00	1.31	0.00	0.00	0.12	0.24	0.00	0.00	0.24	0.00
A22	2021-06-14	0.00	0.00	1.43	0.00	0.00	0.12	0.95	0.00	0.00	0.71	0.00
A22	2021-06-15	0.00	0.00	1.43	0.00	0.36	0.36	1.07	0.00	0.00	0.36	0.00
A22	2021-06-16	0.00	0.00	15.86	0.00	0.72	0.12	2.15	0.00	0.00	0.83	0.00
A22	2021-06-17	0.00	0.00	1.79	0.00	0.12	0.24	1.19	0.00	0.00	0.36	0.00
A22	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A22	2021-06-19	0.00	0.00	6.33	0.00	0.60	0.60	0.96	0.00	0.00	0.60	0.00
A22	2021-06-20	0.00	0.00	0.72	0.00	0.24	0.12	0.12	0.00	0.00	0.00	0.00
A22	2021-06-21	0.00	0.00	0.24	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
A22	2021-06-22	0.00	0.00	5.62	0.00	1.55	0.48	4.78	0.00	0.00	1.55	0.00
A22	2021-06-23	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
A22	2021-06-24	0.00	0.00	0.72	0.00	0.00	0.12	0.95	0.00	0.00	0.12	0.00
A22	2021-06-25	0.00	0.00	1.91	0.00	0.00	0.36	5.01	0.00	0.00	1.91	0.00
A22	2021-06-26	0.00	0.00	1.43	0.00	0.12	0.95	1.19	0.00	0.00	0.24	0.00
A22	2021-06-27	0.00	0.00	0.48	0.00	0.12	0.60	1.19	0.00	0.00	0.71	0.00
A23	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
A23	2021-06-10	0.00	0.00	0.59	0.00	0.00	0.83	0.24	0.00	0.00	0.12	0.00
A23	2021-06-11	0.00	0.00	0.00	0.00	0.00	0.95	1.19	0.00	0.00	0.12	0.00
A23	2021-06-12	0.48	0.00	1.07	0.00	0.00	0.71	3.45	0.00	0.00	0.12	0.00
A23	2021-06-13	0.00	0.00	0.12	0.00	0.00	2.98	5.00	0.00	0.00	0.24	0.00
A23	2021-06-14	0.12	0.00	0.71	0.00	0.00	0.48	0.60	0.00	0.00	0.00	0.00
A23	2021-06-15	0.00	0.00	0.12	0.00	0.00	0.60	0.95	0.00	0.00	0.24	0.00
A23	2021-06-16	0.00	0.00	0.00	0.00	0.00	1.19	9.54	0.00	0.00	0.72	0.00
A23	2021-06-17	0.00	0.00	0.24	0.00	0.00	0.83	10.62	0.00	0.12	0.83	0.00
A23	2021-06-18	0.00	0.00	0.48	0.00	0.00	0.24	1.55	0.00	0.00	0.24	0.00
A23	2021-06-19	0.36	0.00	0.36	0.00	0.00	1.79	5.14	0.00	0.36	0.72	0.00
A23	2021-06-20	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A23	2021-06-21	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A23	2021-06-22	0.00	0.00	0.12	0.00	0.12	0.72	2.99	0.00	0.00	0.36	0.00
A23	2021-06-23	0.00	0.00	0.12	0.00	0.00	1.08	5.98	0.00	0.12	0.36	0.00
A23	2021-06-24	0.12	0.00	0.12	0.00	0.00	6.32	15.51	0.00	0.00	1.31	0.00
A23	2021-06-25	0.00	0.00	0.72	0.00	0.24	7.16	4.29	0.00	0.36	1.43	0.00
A23	2021-06-26	0.00	0.00	0.00	0.00	0.00	0.71	0.60	0.00	0.00	0.12	0.00
A23	2021-06-27	0.24	0.00	0.83	0.00	0.12	0.71	3.57	0.00	0.00	0.36	0.00
A23	2021-06-28	0.12	0.00	0.36	0.00	0.12	1.07	4.16	0.00	0.00	0.12	0.00
A23	2021-06-29	0.00	0.00	0.47	0.00	0.00	0.71	1.54	0.00	0.00	0.36	0.00
A25	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.36	0.24	0.00	0.00	0.24	0.00
A25	2021-06-11	0.00	0.00	0.00	0.00	0.00	0.59	2.96	0.00	0.00	0.71	0.00
A25	2021-06-12	0.12	0.00	0.00	0.00	0.00	0.71	1.07	0.00	0.00	0.48	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A25	2021-06-13	0.00	0.00	0.00	0.00	0.00	0.24	0.71	0.00	0.00	0.12	0.00
A25	2021-06-14	0.00	0.00	0.00	0.00	0.12	0.24	1.31	0.00	0.12	0.71	0.00
A25	2021-06-15	0.00	0.00	0.00	0.00	0.00	0.72	1.67	0.00	0.00	0.60	0.00
A25	2021-06-16	0.00	0.00	0.00	0.00	0.12	0.72	2.15	0.00	0.83	1.55	0.00
A25	2021-06-17	0.00	0.00	0.00	0.00	0.00	1.55	2.74	0.00	0.00	0.60	0.00
A25	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A25	2021-06-19	0.00	0.00	0.00	0.00	0.00	2.27	8.72	0.00	0.00	2.03	0.00
A25	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
A25	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A25	2021-06-22	0.00	0.00	0.00	0.00	0.00	1.20	2.51	0.00	0.00	1.20	0.00
A25	2021-06-23	0.00	0.00	0.00	0.00	0.00	0.24	0.84	0.00	0.00	0.24	0.00
A25	2021-06-24	0.00	0.00	0.00	0.00	0.00	1.79	3.58	0.00	0.00	0.36	0.00
A25	2021-06-25	0.00	0.00	0.00	0.00	0.00	1.55	5.73	0.00	0.00	0.60	0.00
A25	2021-06-26	0.12	0.00	0.00	0.00	0.00	1.43	2.86	0.00	0.00	0.24	0.00
A25	2021-06-27	0.00	0.00	0.00	0.00	0.00	0.48	3.10	0.00	0.00	0.12	0.00
A25	2021-06-28	0.00	0.00	0.00	0.00	0.00	0.83	3.92	0.00	0.00	0.48	0.00
A27	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.24	1.77	0.00	0.00	0.00	0.00
A27	2021-06-11	0.00	0.00	0.00	0.00	0.00	1.65	0.35	0.00	0.00	0.24	0.00
A27	2021-06-12	0.12	0.00	0.00	0.00	0.12	0.12	0.59	0.00	0.00	0.35	0.00
A27	2021-06-13	0.00	0.00	0.00	0.00	0.00	0.36	0.24	0.00	0.00	0.24	0.00
A27	2021-06-14	0.00	0.00	0.00	0.00	0.00	0.36	0.24	0.00	0.00	0.24	0.00
A27	2021-06-15	0.12	0.00	0.48	0.00	0.12	0.12	0.36	0.00	0.12	0.12	0.00
A27	2021-06-16	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.00	0.00	0.24	0.00
A27	2021-06-17	0.00	0.00	0.00	0.00	0.00	0.36	1.54	0.00	0.12	0.48	0.00
A27	2021-06-18	0.00	0.00	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
A27	2021-06-19	0.00	0.00	0.00	0.00	0.00	1.31	2.02	0.00	0.00	0.71	0.00
A27	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A27	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
A27	2021-06-22	0.00	0.00	0.00	0.00	0.00	0.12	0.48	0.00	0.00	0.00	0.00
A27	2021-06-23	0.00	0.00	0.24	0.00	0.00	1.54	2.38	0.00	0.24	1.19	0.00
A27	2021-06-24	0.00	0.00	0.00	0.12	0.00	1.07	4.28	0.00	0.00	0.95	0.00
A27	2021-06-25	0.00	0.00	0.00	0.00	0.00	0.83	8.08	0.00	0.00	0.48	0.00
A27	2021-06-26	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.00	0.00	0.59	0.00
A28	2021-06-10	0.00	0.00	0.00	0.00	0.00	2.13	2.37	0.00	0.00	0.59	0.00
A28	2021-06-11	0.00	0.00	0.12	0.00	0.00	1.07	3.44	0.00	0.00	0.59	0.00
A28	2021-06-12	0.00	0.00	0.24	0.00	0.00	2.73	3.09	0.00	0.12	0.48	0.00
A28	2021-06-13	0.00	0.00	0.00	0.00	0.00	1.43	5.36	0.00	0.12	0.48	0.00
A28	2021-06-14	0.00	0.00	0.00	0.00	0.00	1.31	3.93	0.00	0.00	0.12	0.00
A28	2021-06-15	0.00	0.00	0.00	0.00	0.00	8.71	3.34	0.00	0.00	0.36	0.00
A28	2021-06-16	0.00	0.00	0.00	0.00	0.00	2.98	3.70	0.00	0.00	0.36	0.00
A28	2021-06-17	0.00	0.00	0.00	0.00	0.00	1.19	4.65	0.00	0.00	0.60	0.00
A28	2021-06-18	0.00	0.00	0.00	0.00	0.12	0.00	0.12	0.00	0.00	0.00	0.00
A28	2021-06-19	0.00	0.00	0.00	0.00	0.00	1.43	6.57	0.00	0.24	0.72	0.00
A28	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
A28	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A28	2021-06-22	0.00	0.00	0.12	0.00	0.00	1.55	4.90	0.00	0.00	0.72	0.00
A28	2021-06-23	0.00	0.00	0.00	0.00	0.00	1.08	8.13	0.00	0.00	0.96	0.00
A28	2021-06-24	0.00	0.00	0.00	0.00	0.00	0.48	6.08	0.00	0.00	0.72	0.00
A28	2021-06-25	0.00	0.00	0.00	0.00	0.00	1.55	7.28	0.00	0.12	1.19	0.00
A28	2021-06-26	0.00	0.00	0.12	0.12	0.12	0.83	1.67	0.00	0.00	0.12	0.00
A28	2021-06-27	0.00	0.00	0.00	0.00	0.00	2.26	5.36	0.00	0.00	0.83	0.00
B1	2021-06-01	0.00	0.00	0.00	0.00	0.00	0.35	2.89	0.00	0.00	0.35	0.00
B1	2021-06-02	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
B1	2021-06-03	0.12	0.00	0.00	0.00	0.00	0.47	1.40	0.00	0.00	0.23	0.00
B1	2021-06-04	0.35	0.00	0.12	0.00	0.00	0.00	1.05	0.00	0.12	0.23	0.00
B1	2021-06-05	0.47	0.00	0.23	0.00	0.35	1.52	2.69	0.00	0.12	0.47	0.00
B1	2021-06-06	0.00	0.00	0.00	0.00	0.12	0.70	0.47	0.00	0.23	0.12	0.00
B1	2021-06-07	0.00	0.00	0.00	0.00	0.00	0.47	1.06	0.00	0.00	0.47	0.00
B1	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.47	1.53	0.00	0.00	1.06	0.00
B1	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.71	0.00
B2	2021-06-01	0.12	0.00	0.69	0.00	0.35	1.16	2.54	0.00	0.12	0.35	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
B2	2021-06-02	0.00	0.00	0.12	0.00	0.23	1.97	2.55	0.00	0.00	0.23	0.00
B2	2021-06-03	0.12	0.00	0.12	0.00	0.47	0.35	1.63	0.00	0.00	0.35	0.00
B2	2021-06-04	0.12	0.00	0.23	0.00	0.58	4.09	3.15	0.00	0.00	0.58	0.00
B2	2021-06-05	0.35	0.00	0.47	0.00	0.12	9.24	2.92	0.00	0.35	1.99	0.00
B2	2021-06-06	0.00	0.00	0.00	0.00	0.12	4.10	1.87	0.00	0.00	0.94	0.00
B2	2021-06-07	0.12	0.00	0.00	0.00	0.12	3.17	0.94	0.00	0.00	0.12	0.00
B4	2021-06-01	0.00	0.00	0.12	0.00	0.12	0.23	1.73	0.00	0.00	0.00	0.00
B4	2021-06-02	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.12	0.00
B4	2021-06-03	0.00	0.00	0.23	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
B4	2021-06-04	0.12	0.00	0.12	0.00	0.23	0.23	0.93	0.00	0.00	0.23	0.00
B4	2021-06-05	0.23	0.00	1.98	0.00	1.63	0.00	0.00	0.00	0.12	0.00	0.00
B4	2021-06-06	0.12	0.00	2.57	0.00	1.64	0.23	0.23	0.00	0.00	0.23	0.00
B4	2021-06-07	0.12	0.00	0.47	0.00	0.23	0.23	0.47	0.00	0.00	0.12	0.00
B4	2021-06-08	0.47	0.00	1.87	0.00	0.35	0.12	0.00	0.00	0.12	0.12	0.00
B5	2021-06-01	0.00	0.00	0.00	0.00	0.00	0.12	0.35	0.00	0.00	0.00	0.00
B5	2021-06-02	0.00	0.00	0.12	0.00	0.12	0.35	0.46	0.00	0.00	0.23	0.00
B5	2021-06-03	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
B5	2021-06-04	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
B5	2021-06-05	0.00	0.00	0.12	0.00	0.70	0.23	0.12	0.00	0.00	0.00	0.00
B5	2021-06-06	0.00	0.00	0.35	0.00	0.35	0.23	0.59	0.00	0.00	0.00	0.00
B5	2021-06-07	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.23	0.00
B5	2021-06-08	0.00	0.00	0.24	0.00	0.12	0.24	0.00	0.00	0.00	0.00	0.00
B5	2021-06-09	0.00	0.00	0.00	0.00	0.12	1.18	0.00	0.00	0.00	0.12	0.00
B5	2021-06-10	0.00	0.00	0.00	0.00	0.36	0.47	0.00	0.00	0.00	0.00	0.00
B5	2021-06-11	0.00	0.00	0.36	0.00	0.24	1.54	0.36	0.00	0.00	0.00	0.00
B5	2021-06-12	0.00	0.00	0.36	0.00	0.24	0.36	0.36	0.00	0.00	0.12	0.00
B5	2021-06-13	0.00	0.00	0.24	0.00	0.24	0.24	0.12	0.00	0.00	0.12	0.00
B5	2021-06-14	0.00	0.00	0.00	0.00	0.24	0.24	0.24	0.00	0.00	0.00	0.00
B5	2021-06-15	0.00	0.00	0.00	0.00	0.00	6.08	0.48	0.00	0.00	0.60	0.00
B5	2021-06-16	0.00	0.00	0.12	0.00	0.24	3.82	0.83	0.00	0.00	0.60	0.00
B5	2021-06-17	0.00	0.00	0.12	0.00	0.24	1.79	1.55	0.00	0.00	0.72	0.00
B5	2021-06-18	0.00	0.00	0.36	0.00	0.36	0.12	0.00	0.00	0.00	0.00	0.00
B5	2021-06-19	0.00	0.00	0.24	0.00	0.12	3.71	1.08	0.00	0.00	0.36	0.00
B5	2021-06-20	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
B5	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
B5	2021-06-22	0.00	0.00	1.91	0.00	1.20	0.84	1.31	0.00	0.00	1.08	0.00
B5	2021-06-23	0.00	0.00	0.12	0.00	0.12	0.84	1.43	0.00	0.00	0.72	0.00
B5	2021-06-24	0.00	0.00	0.24	0.00	0.00	1.07	0.83	0.00	0.00	0.24	0.00
B5	2021-06-25	0.00	0.00	0.48	0.00	0.48	7.16	0.60	0.00	0.00	0.95	0.00
B5	2021-06-26	0.00	0.00	0.12	0.00	0.12	3.45	2.14	0.00	0.00	0.60	0.00
B5	2021-06-27	0.00	0.00	0.00	0.00	0.00	3.45	0.60	0.00	0.00	1.43	0.00
B5	2021-06-28	0.00	0.00	0.00	0.00	0.00	0.59	0.24	0.00	0.00	0.36	0.00
B5	2021-06-29	0.00	0.00	0.12	0.00	0.00	0.36	0.24	0.00	0.00	0.00	0.00
B6	2021-06-01	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
B6	2021-06-02	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
B6	2021-06-03	0.00	0.00	0.00	0.00	0.12	0.00	0.58	0.00	0.00	0.12	0.00
B6	2021-06-04	0.00	0.00	0.12	0.00	0.12	0.12	0.12	0.00	0.00	0.12	0.00
B6	2021-06-05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
B6	2021-06-06	0.00	0.00	0.12	0.00	0.00	0.35	0.00	0.00	0.00	0.12	0.00
B6	2021-06-07	0.00	0.00	0.00	0.00	0.00	0.12	0.35	0.00	0.00	0.23	0.00
B9	2021-06-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B9	2021-06-03	0.00	0.00	0.23	0.00	0.00	0.00	0.58	0.00	0.00	0.69	0.00
B9	2021-06-04	0.00	0.00	0.00	0.00	0.00	0.35	0.93	0.00	0.00	1.63	0.00
B9	2021-06-05	0.00	0.00	0.00	0.00	0.12	1.40	0.47	0.00	0.00	3.03	0.00
B9	2021-06-06	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.47	0.00
B9	2021-06-07	0.00	0.00	0.00	0.00	0.12	0.94	0.35	0.00	0.00	1.29	0.00
B10	2021-06-02	0.00	0.00	1.96	0.00	0.92	0.35	0.12	0.00	0.00	0.12	0.00
B10	2021-06-03	0.00	0.00	0.00	0.00	0.00	0.35	0.12	0.00	0.00	0.23	0.00
B10	2021-06-04	0.00	0.00	0.00	0.00	0.00	0.12	0.58	0.00	0.00	0.35	0.00
B10	2021-06-05	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.93	0.00
B10	2021-06-06	0.00	0.00	0.00	0.00	0.12	0.23	0.70	0.00	0.00	0.12	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
B10	2021-06-07	0.12	0.00	1.52	0.00	0.23	0.00	0.23	0.00	0.00	0.23	0.00
B11	2021-06-02	0.12	0.00	0.00	0.00	0.00	0.71	0.24	0.00	0.00	0.00	0.00
B11	2021-06-03	0.00	0.00	0.12	0.00	0.24	0.00	0.47	0.00	0.00	0.12	0.00
B11	2021-06-04	0.00	0.00	0.00	0.00	0.00	0.12	0.95	0.00	0.00	0.36	0.00
B11	2021-06-05	0.00	0.00	0.00	0.00	0.00	0.12	0.48	0.00	0.00	0.60	0.00
B11	2021-06-06	0.00	0.00	0.00	0.00	0.00	0.48	0.36	0.00	0.00	0.00	0.00
B11	2021-06-07	0.00	0.00	0.12	0.00	0.00	0.48	0.24	0.00	0.00	0.24	0.00
B11	2021-06-10	0.00	0.00	0.12	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
B11	2021-06-11	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.24	0.00
B11	2021-06-12	0.00	0.00	0.00	0.00	0.00	1.20	0.96	0.00	0.00	0.12	0.00
B11	2021-06-13	0.00	0.00	0.24	0.00	0.00	3.82	1.43	0.00	0.00	0.60	0.00
B11	2021-06-14	0.12	0.00	0.00	0.00	0.00	0.48	0.24	0.00	0.00	0.12	0.00
B11	2021-06-15	0.12	0.00	0.00	0.00	0.00	0.84	0.60	0.00	0.00	0.36	0.00
B11	2021-06-16	0.00	0.00	0.00	0.00	0.00	1.79	1.79	0.00	0.12	0.96	0.00
B11	2021-06-17	0.00	0.00	0.00	0.00	0.00	2.87	6.10	0.00	0.24	1.55	0.00
B11	2021-06-18	0.00	0.00	0.24	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
B11	2021-06-19	0.00	0.00	0.12	0.00	0.00	9.30	2.74	0.00	0.36	1.31	0.00
B11	2021-06-20	0.00	0.00	0.24	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
B11	2021-06-21	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B11	2021-06-22	0.00	0.00	0.00	0.00	0.00	0.70	0.81	0.00	0.00	0.23	0.00
B11	2021-06-23	0.00	0.00	0.00	0.00	0.00	13.31	4.79	0.00	0.00	3.03	0.00
B11	2021-06-24	0.00	0.00	0.00	0.00	0.00	1.99	5.03	0.00	0.12	0.47	0.00
B11	2021-06-25	0.00	0.00	0.00	0.00	0.00	1.99	11.13	0.00	0.23	1.52	0.00
B11	2021-06-26	0.12	0.00	0.12	0.00	0.00	2.58	3.05	0.00	0.00	0.82	0.00
B12	2021-06-02	0.00	0.00	0.12	0.00	0.00	0.35	0.92	0.00	0.00	0.12	0.00
B12	2021-06-03	0.00	0.00	0.12	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00
B12	2021-06-04	0.00	0.00	0.00	0.00	0.00	0.12	0.70	0.00	0.00	0.12	0.00
B12	2021-06-05	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.12	0.00
B12	2021-06-06	0.00	0.00	0.23	0.00	0.00	0.12	0.23	0.00	0.00	0.35	0.00
B12	2021-06-07	0.00	0.00	0.12	0.00	0.00	0.47	0.70	0.00	0.00	0.12	0.00
B12	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.23	0.82	0.00	0.00	0.35	0.00
B13	2021-06-01	0.00	0.00	0.23	0.00	0.00	0.58	1.97	0.00	0.12	0.23	0.00
B13	2021-06-02	0.00	0.00	0.12	0.00	0.00	0.35	0.35	0.00	0.00	0.35	0.00
B13	2021-06-03	0.12	0.00	0.00	0.00	0.00	0.23	0.58	0.00	0.00	0.12	0.00
B13	2021-06-04	0.00	0.00	0.12	0.00	0.00	0.70	3.03	0.00	0.00	0.23	0.00
B13	2021-06-05	0.00	0.00	0.23	0.00	0.00	2.57	7.13	0.00	0.12	1.64	0.00
B13	2021-06-06	0.00	0.00	0.23	0.00	0.00	0.70	1.76	0.00	0.12	1.17	0.00
B13	2021-06-07	0.00	0.00	0.12	0.00	0.12	0.23	3.87	0.00	0.12	0.47	0.00
B13	2021-06-08	0.00	0.00	0.00	0.00	0.00	1.65	4.13	0.00	0.12	0.71	0.00
B16	2021-06-04	0.00	0.00	0.00	0.00	0.00	0.35	1.05	0.00	0.00	0.23	0.00
B16	2021-06-05	0.00	0.00	0.00	0.00	0.00	0.12	3.73	0.00	0.23	1.28	0.00
B16	2021-06-06	0.00	0.00	0.00	0.00	0.00	0.35	2.57	0.00	0.00	0.47	0.00
B16	2021-06-07	0.00	0.00	0.00	0.00	0.00	0.58	6.90	0.00	0.00	0.23	0.00
B16	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.00	3.52	0.00	0.00	0.35	0.00
B16	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00
B16	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.00	3.18	0.00	0.59	0.00	0.00
B16	2021-06-11	0.00	0.00	0.12	0.00	0.00	0.59	79.84	0.00	0.35	4.49	0.00
B16	2021-06-12	0.00	0.00	0.00	0.00	0.00	1.07	17.16	0.00	0.12	1.07	0.00
B16	2021-06-13	0.00	0.00	0.00	0.00	0.00	0.71	25.14	0.00	0.00	1.42	0.00
B16	2021-06-14	0.00	0.00	0.00	0.00	0.00	0.24	2.37	0.00	0.00	0.59	0.00
B16	2021-06-15	0.00	0.00	0.00	0.00	0.00	2.02	6.06	0.00	0.00	0.59	0.00
B16	2021-06-16	0.12	0.00	0.12	0.00	0.00	2.02	10.81	0.00	0.00	1.31	0.00
B16	2021-06-17	0.24	0.00	0.00	0.00	0.12	1.07	7.62	0.00	0.00	0.48	0.00
B16	2021-06-18	0.00	0.00	0.36	0.00	0.24	0.24	3.45	0.00	0.12	0.60	0.00
B16	2021-06-19	0.12	0.00	0.12	0.00	0.00	0.48	8.57	0.00	0.00	0.83	0.00
B16	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.12	0.60	0.00	0.00	0.00	0.00
B16	2021-06-21	0.24	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.12	0.00
B16	2021-06-22	0.00	0.00	0.00	0.00	0.00	0.83	5.48	0.00	0.00	0.36	0.00
B16	2021-06-23	0.00	0.00	0.00	0.00	0.00	0.48	1.67	0.00	0.12	0.24	0.00
B16	2021-06-24	0.00	0.00	0.00	0.00	0.00	5.47	9.50	0.00	0.36	1.19	0.00
B16	2021-06-25	0.00	0.00	0.00	0.00	0.00	2.61	7.96	0.00	0.00	0.95	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
B16	2021-06-26	0.00	0.00	0.00	0.00	0.00	3.08	4.39	0.00	0.00	1.07	0.00
B16	2021-06-27	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
B18	2021-06-08	0.00	0.00	0.94	0.00	0.35	0.82	2.70	0.00	0.00	0.94	0.00
B18	2021-06-09	0.00	0.00	1.06	0.00	0.94	10.59	1.53	0.00	0.12	2.00	0.00
B18	2021-06-10	0.00	0.00	0.24	0.00	0.24	3.30	0.94	0.00	0.00	1.06	0.00
B18	2021-06-11	0.00	0.00	1.06	0.00	0.24	4.83	1.18	0.00	0.00	1.06	0.00
B18	2021-06-12	0.00	0.00	0.00	0.00	0.00	4.84	5.91	0.00	0.00	1.30	0.00
B18	2021-06-13	0.00	0.00	0.12	0.00	0.12	8.77	10.43	0.00	0.12	2.61	0.00
B18	2021-06-14	0.00	0.00	0.12	0.00	0.12	0.71	1.30	0.00	0.00	0.24	0.00
B18	2021-06-15	0.12	0.00	0.12	0.00	0.12	7.60	3.56	0.00	0.00	1.19	0.00
B18	2021-06-16	0.00	0.00	0.48	0.00	0.36	25.42	5.70	0.00	0.24	2.73	0.00
B18	2021-06-17	0.24	0.00	2.14	0.00	1.31	27.21	12.95	0.00	0.36	4.87	0.00
B18	2021-06-18	0.00	0.00	0.00	0.00	0.00	1.07	4.64	0.00	0.00	0.48	0.00
B18	2021-06-19	0.12	0.00	0.00	0.00	0.00	15.33	4.16	0.00	0.00	3.45	0.00
B18	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B18	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B18	2021-06-22	0.00	0.00	0.00	0.00	0.00	4.05	6.31	0.00	0.36	1.43	0.00
B18	2021-06-23	0.00	0.00	0.00	0.00	0.24	21.15	9.74	0.00	0.36	4.04	0.00
B18	2021-06-24	0.00	0.00	0.36	0.00	0.00	21.62	7.60	0.00	0.12	3.09	0.00
B18	2021-06-25	0.00	0.00	0.00	0.00	0.00	5.82	16.99	0.00	0.12	2.97	0.00
B18	2021-06-26	0.00	0.00	0.24	0.00	0.36	4.62	4.27	0.00	0.00	1.07	0.00
B19	2021-06-08	0.00	0.00	0.12	0.00	0.12	0.24	1.06	0.00	0.00	0.12	0.00
B19	2021-06-09	0.00	0.00	0.00	0.00	0.24	0.12	0.83	0.00	0.00	0.24	0.00
B19	2021-06-10	0.12	0.00	0.36	0.00	0.12	0.47	0.36	0.00	0.00	0.12	0.00
B19	2021-06-11	0.00	0.00	0.24	0.00	0.12	0.12	0.24	0.00	0.00	0.12	0.00
B19	2021-06-12	0.00	0.00	0.12	0.00	0.12	0.95	0.71	0.00	0.00	0.83	0.00
B19	2021-06-13	0.12	0.00	0.24	0.00	0.12	0.95	0.95	0.00	0.12	0.36	0.00
B19	2021-06-14	0.12	0.00	0.00	0.00	0.12	1.31	0.36	0.00	0.00	0.24	0.00
B19	2021-06-15	0.12	0.00	0.00	0.00	0.12	1.19	0.12	0.00	0.00	0.12	0.00
B19	2021-06-16	0.12	0.00	0.00	0.00	0.48	12.29	5.96	0.00	0.12	3.94	0.00
B19	2021-06-17	0.00	0.00	0.00	0.00	0.48	2.39	3.34	0.00	0.00	0.95	0.00
B19	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.60	0.00
B19	2021-06-19	0.00	0.00	0.00	0.00	0.12	7.77	0.84	0.00	0.00	1.79	0.00
B19	2021-06-20	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.12	0.00
B19	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B19	2021-06-22	0.00	0.00	0.00	0.00	0.24	4.30	0.84	0.00	0.00	1.43	0.00
B19	2021-06-23	0.00	0.00	0.00	0.00	0.00	2.99	2.51	0.00	0.12	2.39	0.00
B19	2021-06-24	0.00	0.00	0.00	0.00	0.00	3.82	3.70	0.00	0.00	2.27	0.00
B19	2021-06-25	0.12	0.00	0.00	0.00	0.00	7.28	1.91	0.00	0.00	1.43	0.00
B19	2021-06-26	0.00	0.00	0.00	0.00	0.12	0.48	1.43	0.00	0.00	0.71	0.00
B21	2021-06-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B21	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.24	0.00
B21	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
B21	2021-06-11	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.12	0.00
B21	2021-06-12	0.00	0.00	0.00	0.00	0.00	0.12	0.35	0.00	0.12	0.24	0.00
B21	2021-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
B21	2021-06-14	0.00	0.00	0.00	0.00	0.00	0.36	0.71	0.00	0.00	0.00	0.00
B21	2021-06-15	0.00	0.00	0.00	0.00	0.00	0.36	0.71	0.00	0.00	0.00	0.00
B21	2021-06-16	0.00	0.00	0.00	0.00	0.00	0.12	1.43	0.00	0.00	0.12	0.00
B21	2021-06-17	0.00	0.00	0.12	0.00	0.00	0.12	2.14	0.00	0.12	0.36	0.00
B21	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
B21	2021-06-19	0.00	0.00	0.00	0.00	0.00	0.48	2.02	0.00	0.00	0.00	0.00
B21	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B21	2021-06-21	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B21	2021-06-22	0.00	0.00	0.00	0.00	0.24	0.12	0.36	0.00	0.00	0.00	0.00
B21	2021-06-23	0.00	0.00	0.00	0.00	0.00	1.43	2.02	0.00	0.00	0.24	0.00
B21	2021-06-24	0.00	0.00	0.12	0.00	0.00	0.48	5.23	0.00	0.00	0.71	0.00
B21	2021-06-25	0.00	0.00	0.00	0.00	0.00	0.59	0.48	0.00	0.00	0.36	0.00
B21	2021-06-26	0.00	0.00	0.00	0.00	0.00	1.07	0.95	0.00	0.00	0.12	0.00
B21	2021-06-27	0.00	0.00	0.00	0.00	0.00	0.12	0.95	0.00	0.12	0.24	0.00
B21	2021-06-28	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
B21	2021-06-29	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.00	0.00	0.00	0.00
B22	2021-06-08	0.12	0.00	0.35	0.00	0.12	1.65	2.00	0.00	0.12	0.83	0.00
B22	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
B22	2021-06-10	0.00	0.00	0.00	0.00	0.00	3.08	0.83	0.00	0.00	0.83	0.00
B22	2021-06-11	1.30	0.00	8.66	0.00	7.35	1.66	2.25	0.00	0.00	0.24	0.00
B22	2021-06-12	0.12	0.00	0.48	0.00	0.24	1.43	3.68	0.00	0.00	0.83	0.00
B22	2021-06-13	0.60	0.00	13.21	0.00	3.69	8.33	2.74	0.00	0.00	0.36	0.00
B22	2021-06-14	0.00	0.00	0.12	0.00	0.36	2.98	2.98	0.00	0.00	0.12	0.00
B22	2021-06-15	0.12	0.00	0.12	0.00	0.12	4.06	2.15	0.00	0.00	0.48	0.00
B22	2021-06-16	1.67	0.00	5.96	0.00	5.13	5.61	4.41	0.00	0.00	1.31	0.00
B22	2021-06-17	0.24	0.00	11.93	0.00	5.37	7.04	2.74	0.00	0.00	0.95	0.00
B22	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.12	0.36	0.00	0.00	0.00	0.00
B22	2021-06-19	0.12	0.00	2.27	0.00	1.20	4.54	2.75	0.00	0.00	0.24	0.00
B22	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B22	2021-06-21	0.00	0.00	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
B22	2021-06-22	1.43	0.00	3.71	0.00	2.51	0.96	10.28	0.00	0.00	1.43	0.00
B22	2021-06-23	0.00	0.00	0.00	0.00	0.60	0.96	0.12	0.00	0.00	0.60	0.00
B22	2021-06-24	0.00	0.00	0.00	0.00	0.12	24.33	3.46	0.00	0.12	1.07	0.00
B22	2021-06-25	0.12	0.00	0.36	0.00	0.36	61.43	4.89	0.00	0.00	5.25	0.00
B22	2021-06-26	0.00	0.00	0.00	0.00	0.12	2.62	2.86	0.00	0.00	0.48	0.00
B22	2021-06-27	0.00	0.00	0.12	0.00	0.00	3.33	3.21	0.00	0.12	1.55	0.00
B23	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B23	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B23	2021-06-11	0.00	0.00	0.00	0.00	0.00	0.47	1.30	0.00	0.00	0.83	0.00
B23	2021-06-12	0.35	0.00	1.89	0.00	0.35	8.15	4.72	0.00	0.12	0.71	0.00
B23	2021-06-13	0.83	0.00	3.32	0.00	0.83	5.22	13.16	0.00	0.24	1.66	0.00
B23	2021-06-14	0.00	0.00	0.95	0.00	0.47	1.07	0.59	0.00	0.00	0.47	0.00
B23	2021-06-15	0.71	0.00	1.66	0.00	0.71	2.02	3.45	0.00	0.00	0.24	0.00
B23	2021-06-16	2.02	0.00	5.47	0.00	2.26	22.45	23.41	0.00	0.48	3.92	0.00
B23	2021-06-17	0.00	0.00	0.12	0.00	0.12	25.19	12.47	0.00	0.24	2.38	0.00
B23	2021-06-18	0.00	0.00	0.60	0.00	0.24	0.00	0.24	0.00	0.00	0.24	0.00
B23	2021-06-19	0.36	0.00	3.21	0.00	0.71	11.52	12.36	0.00	0.36	3.21	0.00
B23	2021-06-20	0.12	0.00	0.48	0.00	0.00	0.00	0.36	0.00	0.00	0.12	0.00
B23	2021-06-21	0.00	0.00	1.79	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00
B23	2021-06-22	0.48	0.00	1.79	0.00	0.36	3.21	2.74	0.00	0.00	0.71	0.00
B23	2021-06-23	0.48	0.00	0.59	0.00	0.24	13.66	9.27	0.00	0.71	3.09	0.00
B23	2021-06-24	0.59	0.00	2.38	0.00	0.59	6.06	13.31	0.00	0.24	1.78	0.00
B23	2021-06-25	0.83	0.00	2.49	0.00	2.26	20.67	24.95	0.00	0.83	4.99	0.00
B23	2021-06-26	0.36	0.00	0.83	0.00	0.36	1.42	4.62	0.00	0.00	0.47	0.00
B23	2021-06-27	0.36	0.00	1.89	0.00	0.71	3.43	10.77	0.00	0.00	1.89	0.00
B23	2021-06-28	1.07	0.00	1.42	0.00	1.30	2.37	6.75	0.00	0.00	1.07	0.00
B23	2021-06-29	0.24	0.00	1.53	0.00	2.59	2.00	7.78	0.00	0.35	1.77	0.00
B27	2021-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B27	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.24	0.59	0.00	0.00	0.00	0.00
B27	2021-06-11	0.00	0.00	0.00	0.00	0.00	0.47	0.59	0.00	0.00	0.24	0.00
B27	2021-06-12	0.00	0.00	0.12	0.00	0.00	0.83	1.90	0.00	0.00	0.71	0.00
B27	2021-06-13	0.00	0.00	0.00	0.00	0.00	1.07	0.48	0.00	0.00	0.12	0.00
B27	2021-06-14	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.00	0.00	0.12	0.00
B27	2021-06-15	0.00	0.00	0.12	0.00	0.12	0.36	0.95	0.00	0.00	0.48	0.00
B27	2021-06-16	0.00	0.00	0.00	0.00	0.00	0.95	1.55	0.00	0.00	0.72	0.00
B27	2021-06-17	0.00	0.00	0.00	0.00	0.00	1.31	3.10	0.00	0.00	0.72	0.00
B27	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00
B27	2021-06-19	0.00	0.00	0.12	0.00	0.00	0.72	1.91	0.00	0.00	0.96	0.00
B27	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B27	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B27	2021-06-22	0.00	0.00	0.00	0.00	0.00	0.36	0.84	0.00	0.00	0.36	0.00
B27	2021-06-23	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.12	0.00
B27	2021-06-24	0.00	0.00	0.00	0.00	0.00	1.67	7.87	0.00	0.00	2.50	0.00
B27	2021-06-25	0.00	0.00	0.00	0.00	0.00	1.43	2.50	0.00	0.00	0.48	0.00
B27	2021-06-26	0.00	0.00	0.00	0.00	0.00	0.71	2.14	0.00	0.00	0.71	0.00
B28	2021-06-10	0.00	0.00	0.00	0.00	0.00	0.12	0.47	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
B28	2021-06-11	0.00	0.00	0.00	0.00	0.00	0.94	13.44	0.00	0.12	1.30	0.00
B28	2021-06-12	0.00	0.00	0.00	0.00	0.00	1.18	5.08	0.00	0.00	0.35	0.00
B28	2021-06-13	0.00	0.00	0.00	0.00	0.00	0.95	2.61	0.00	0.12	0.36	0.00
B28	2021-06-14	0.00	0.00	0.00	0.00	0.00	0.12	2.96	0.00	0.00	0.12	0.00
B28	2021-06-15	0.00	0.00	0.00	0.00	0.00	1.07	3.45	0.00	0.00	0.12	0.00
B28	2021-06-16	0.00	0.00	0.00	0.00	0.00	1.66	6.18	0.00	0.12	1.19	0.00
B28	2021-06-17	0.00	0.00	0.00	0.00	0.00	0.59	7.37	0.00	0.00	1.31	0.00
B28	2021-06-18	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00
B28	2021-06-19	0.00	0.00	0.00	0.00	0.00	1.19	10.34	0.00	0.00	1.07	0.00
B28	2021-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
B28	2021-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B28	2021-06-22	0.00	0.00	0.00	0.00	0.00	1.07	14.29	0.00	0.00	1.31	0.00
B28	2021-06-23	0.00	0.00	0.00	0.00	0.00	0.95	6.89	0.00	0.00	0.83	0.00
B28	2021-06-24	0.00	0.00	0.00	0.00	0.00	0.59	2.61	0.00	0.00	0.95	0.00
B28	2021-06-25	0.00	0.00	0.00	0.00	0.00	0.95	9.03	0.00	0.24	1.66	0.00
B28	2021-06-26	0.00	0.00	0.00	0.00	0.00	0.71	2.73	0.00	0.00	0.59	0.00
B28	2021-06-27	0.00	0.00	0.00	0.00	0.00	1.89	7.69	0.00	0.00	1.78	0.00
Cliff 6-control	2021-08-27	1.07	0.00	0.00	0.00	0.61	0.09	3.28	0.00	0.00	0.68	0.00
Cliff 6-control	2021-08-28	0.27	0.00	0.00	0.17	0.69	0.60	2.57	0.09	0.00	0.80	0.00
Cliff 6-control	2021-08-29	0.53	0.00	0.00	0.00	0.43	0.26	2.56	0.00	0.00	0.27	0.00
Cliff 6-control	2021-08-30	0.26	0.00	0.00	0.00	0.43	0.00	1.61	0.00	0.00	0.26	0.00
Cliff 6-control	2021-08-31	0.26	0.00	0.00	0.00	0.17	0.59	2.41	0.00	0.00	0.70	0.00
Cliff 6-control	2021-09-01	0.78	0.00	0.00	0.00	0.68	0.27	4.08	0.09	0.00	0.78	0.00
Cliff 6-control	2021-09-02	0.34	0.00	0.00	0.17	0.36	0.53	0.00	0.00	0.00	0.26	0.00
Cliff 6-control	2021-09-03	1.80	0.00	0.00	0.09	0.62	0.53	1.23	0.00	0.00	0.60	0.00
Cliff 6-control	2021-09-04	0.17	0.00	0.00	0.09	0.26	0.18	3.05	0.00	0.00	0.34	0.00
Cliff 6-control	2021-09-05	0.42	0.00	0.00	0.00	0.18	0.26	1.47	0.00	0.00	0.17	0.00
Cliff 1-6	2021-08-28	1.43	0.00	0.09	0.00	2.97	1.13	2.41	0.00	0.00	0.93	0.00
Cliff 1-6	2021-08-29	2.57	0.00	0.09	0.00	3.38	0.95	5.40	0.00	0.00	2.76	0.00
Cliff 1-6	2021-08-30	0.97	0.00	0.00	0.00	0.95	0.09	0.26	0.00	0.00	0.35	0.00
Cliff 1-6	2021-08-31	1.84	0.00	0.00	0.00	1.97	0.68	1.44	0.00	0.00	1.50	0.00
Cliff 1-6	2021-09-01	4.19	0.00	0.00	0.00	4.18	0.59	1.25	0.00	0.00	1.32	0.00
Cliff 1-6	2021-09-02	3.90	0.00	0.00	0.00	4.16	0.00	0.00	0.00	0.00	0.35	0.00
Cliff 1-6	2021-09-03	0.09	0.00	0.00	0.00	0.09	0.09	0.18	0.00	0.00	0.17	0.00
Cliff 1-6	2021-09-04	2.14	0.00	0.00	0.00	1.42	0.18	0.70	0.09	0.00	0.43	0.00
Cliff 1-6	2021-09-05	1.45	0.00	0.09	0.00	3.08	0.09	0.35	0.00	0.00	0.43	0.00
Cliff 1-6	2021-09-06	3.56	0.00	0.18	0.00	4.56	0.44	0.00	0.00	0.00	0.09	0.00
M6-2	2021-08-27	0.45	0.00	0.09	0.00	0.52	0.35	2.24	0.00	0.00	0.25	0.00
M6-2	2021-08-28	1.24	0.00	0.61	0.09	0.87	0.69	8.14	0.26	0.00	1.61	0.00
M6-2	2021-08-29	3.61	0.00	0.96	0.00	2.59	0.77	7.17	0.08	0.00	0.71	0.00
M6-2	2021-08-30	0.53	0.00	0.17	0.00	0.43	0.00	0.68	0.00	0.00	0.35	0.00
M6-2	2021-08-31	0.78	0.00	0.78	0.00	1.28	0.42	4.84	0.62	0.00	0.79	0.00
M6-2	2021-09-01	0.78	0.00	1.03	0.00	1.36	0.36	2.14	0.09	0.00	0.53	0.00
M6-2	2021-09-02	0.17	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.09	0.00
M6-2	2021-09-03	0.77	0.00	0.34	0.00	0.89	0.27	1.15	0.00	0.00	0.17	0.00
M6-2	2021-09-04	5.80	0.00	0.90	0.18	6.74	0.35	4.65	0.00	0.00	0.43	0.00
M6-2	2021-09-05	1.78	0.00	0.09	0.00	1.50	0.26	2.27	0.00	0.00	0.09	0.00
Cliff 1-4	2021-08-27	0.45	0.00	0.62	0.00	1.49	0.44	1.21	0.00	0.00	0.26	0.00
Cliff 1-4	2021-08-28	0.36	0.00	0.88	0.00	1.05	0.26	0.95	0.00	0.00	0.71	0.00
Cliff 1-4	2021-08-29	0.97	0.00	1.58	0.00	1.04	0.69	3.43	0.09	0.00	1.51	0.00
Cliff 1-4	2021-08-30	0.26	0.00	1.22	0.00	1.72	0.17	0.00	0.00	0.00	0.26	0.00
Cliff 1-4	2021-08-31	0.61	0.00	1.99	0.00	0.69	0.60	2.41	0.00	0.00	1.58	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-4	2021-09-01	0.44	0.00	2.16	0.00	1.28	0.36	2.48	0.00	0.00	1.92	0.00
Cliff 1-4	2021-09-02	1.39	0.00	1.03	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2021-09-03	0.52	0.00	1.19	0.00	2.22	0.09	0.26	0.00	0.00	0.26	0.00
Cliff 1-4	2021-09-04	0.34	0.00	1.60	0.00	1.67	0.35	2.18	0.00	0.00	0.60	0.00
Cliff 1-4	2021-09-05	0.00	0.00	0.53	0.00	0.96	0.09	0.95	0.00	0.00	0.26	0.00
M3-1	2021-08-27	0.18	0.00	0.00	0.00	3.14	0.35	1.81	0.09	0.00	0.93	0.00
M3-1	2021-08-28	0.27	0.00	0.00	0.00	4.08	0.43	6.43	0.00	0.00	1.34	0.00
M3-1	2021-08-29	0.44	0.00	0.00	0.00	1.12	0.00	0.34	0.00	0.00	0.35	0.00
M3-1	2021-08-30	0.70	0.00	0.00	0.00	2.06	0.77	3.82	0.27	0.00	0.62	0.00
M3-1	2021-08-31	0.26	0.00	0.00	0.00	2.39	0.42	1.43	0.00	0.00	0.79	0.00
M3-1	2021-09-01	0.09	0.00	0.00	0.00	2.80	0.09	0.18	0.00	0.00	0.00	0.00
M3-1	2021-09-02	0.17	0.00	0.00	0.00	0.53	0.00	0.26	0.00	0.00	0.00	0.00
M3-1	2021-09-03	0.34	0.00	0.00	0.00	2.75	0.18	2.28	0.00	0.00	0.60	0.00
M3-1	2021-09-04	0.60	0.00	0.00	0.00	5.29	0.26	0.26	0.00	0.00	0.60	0.00
M3-1	2021-09-05	0.00	0.00	0.00	0.00	3.25	0.17	0.35	0.00	0.00	0.77	0.00
M6-1	2021-08-27	0.18	0.00	0.00	0.00	0.26	0.09	0.86	0.00	0.00	0.59	0.00
M6-1	2021-08-28	0.09	0.00	0.09	0.00	0.61	0.26	2.40	0.00	0.00	1.96	0.00
M6-1	2021-08-29	0.09	0.00	0.00	0.00	3.02	0.26	3.07	0.08	0.00	1.60	0.00
M6-1	2021-08-30	0.18	0.00	0.17	0.00	0.17	0.26	0.25	0.00	0.00	0.62	0.00
M6-1	2021-08-31	0.09	0.00	0.17	0.00	5.55	0.34	1.60	0.18	0.00	1.93	0.00
M6-1	2021-09-01	0.26	0.00	0.09	0.00	4.92	0.09	0.44	0.00	0.00	0.61	0.00
M6-1	2021-09-02	0.00	0.00	0.00	0.00	1.16	0.09	0.00	0.00	0.00	0.09	0.00
M6-1	2021-09-03	0.09	0.00	0.08	0.00	0.89	0.26	0.44	0.00	0.00	0.34	0.00
M6-1	2021-09-04	1.71	0.00	0.62	0.00	10.04	0.44	2.18	0.00	0.00	0.51	0.00
M6-1	2021-09-05	0.34	0.00	0.00	0.00	2.28	0.26	0.78	0.00	0.00	0.34	0.00
Cliff 6	2021-08-27	1.16	0.00	0.00	0.00	0.70	0.35	2.93	0.00	0.00	0.62	0.00
Cliff 6	2021-08-28	0.27	0.00	0.00	0.17	1.21	0.43	2.23	0.00	0.00	0.53	0.00
Cliff 6	2021-08-29	0.44	0.00	0.00	0.00	0.34	0.34	2.39	0.00	0.00	0.26	0.00
Cliff 6	2021-08-30	0.18	0.00	0.00	0.00	0.26	0.00	2.76	0.00	0.00	0.26	0.00
Cliff 6	2021-08-31	0.17	0.00	0.00	0.00	0.26	0.18	2.84	0.00	0.00	0.26	0.00
Cliff 6	2021-09-01	0.69	0.00	0.00	0.00	0.09	0.35	3.35	0.18	0.00	0.69	0.00
Cliff 6	2021-09-02	0.52	0.00	0.00	0.00	0.62	0.35	0.00	0.00	0.00	0.00	0.00
Cliff 6	2021-09-03	1.80	0.00	0.00	0.00	0.53	0.44	1.13	0.00	0.00	0.26	0.00
Cliff 6	2021-09-04	0.34	0.00	0.00	0.00	0.09	0.44	2.51	0.00	0.00	0.34	0.00
Cliff 6	2021-09-05	0.53	0.00	0.00	0.00	0.26	0.09	1.38	0.00	0.00	0.18	0.00
Cliff 1-3	2021-08-28	1.42	0.00	0.00	0.00	2.34	1.72	3.69	0.00	0.00	1.05	0.00
Cliff 1-3	2021-08-29	1.41	0.00	0.00	0.00	2.07	2.23	10.41	0.00	0.00	2.51	0.00
Cliff 1-3	2021-08-30	0.96	0.00	0.00	0.00	0.69	0.68	0.53	0.00	0.00	0.17	0.00
Cliff 1-3	2021-08-31	0.87	0.00	0.17	0.00	0.77	0.53	3.23	0.17	0.00	1.29	0.00
Cliff 1-3	2021-09-01	1.13	0.00	0.00	0.00	1.14	1.05	2.43	0.00	0.00	0.77	0.00
Cliff 1-3	2021-09-02	1.47	0.00	0.00	0.00	1.22	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-3	2021-09-03	0.86	0.00	0.00	0.00	0.69	0.00	0.34	0.00	0.00	0.18	0.00
Cliff 1-3	2021-09-04	1.79	0.00	0.00	0.00	1.38	0.34	1.79	0.09	0.00	0.44	0.00
Cliff 1-3	2021-09-05	1.40	0.00	0.26	0.00	1.97	0.09	0.45	0.09	0.00	0.00	0.00
Cliff 1-3	2021-09-06	1.48	0.00	0.00	0.00	1.62	0.27	0.09	0.00	0.00	0.26	0.00
Cliff 2-2	2021-08-28	0.26	0.00	0.00	0.09	0.72	0.53	5.76	0.00	0.00	0.96	0.00
Cliff 2-2	2021-08-29	0.09	0.00	0.26	0.00	0.18	1.68	11.54	0.09	0.00	1.39	0.00
Cliff 2-2	2021-08-30	0.09	0.00	0.45	0.00	0.00	0.09	1.32	0.00	0.00	0.43	0.00
Cliff 2-2	2021-08-31	0.09	0.00	0.00	0.00	0.09	0.26	5.67	0.00	0.00	0.51	0.00
Cliff 2-2	2021-09-01	0.00	0.00	0.00	0.00	0.00	0.35	5.90	0.17	0.00	0.85	0.00
Cliff 2-2	2021-09-02	0.00	0.00	0.00	0.00	0.00	0.17	0.78	0.00	0.00	0.45	0.00
Cliff 2-2	2021-09-03	0.09	0.00	0.00	0.09	0.17	2.24	0.51	0.09	0.00	0.98	0.00
Cliff 2-2	2021-09-04	0.00	0.00	0.00	0.00	0.00	0.43	1.88	0.00	0.00	0.44	0.00
Cliff 2-2	2021-09-05	0.00	0.00	0.00	0.00	0.00	0.34	1.79	0.09	0.00	0.53	0.00
Cliff 1-1	2021-08-28	0.26	0.00	0.00	0.00	0.94	0.54	2.14	0.00	0.00	2.11	0.00
Cliff 1-1	2021-08-29	0.09	0.00	0.00	0.00	0.36	0.36	5.76	0.00	0.00	1.74	0.00
Cliff 1-1	2021-08-30	0.26	0.00	0.00	0.00	0.09	0.00	0.09	0.00	0.00	0.17	0.00
Cliff 1-1	2021-08-31	0.09	0.00	0.00	0.00	0.09	0.44	2.81	0.09	0.00	1.55	0.00
Cliff 1-1	2021-09-01	0.17	0.00	0.00	0.00	0.70	0.18	2.09	0.17	0.00	1.20	0.00
Cliff 1-1	2021-09-02	0.09	0.00	0.00	0.00	0.61	0.00	0.09	0.00	0.00	0.00	0.00
Cliff 1-1	2021-09-03	0.09	0.00	0.00	0.00	0.96	0.00	0.17	0.09	0.00	0.54	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-1	2021-09-04	0.27	0.00	0.00	0.00	0.87	0.09	0.86	0.00	0.00	0.36	0.00
Cliff 1-1	2021-09-05	0.09	0.00	0.00	0.00	0.86	0.09	0.34	0.00	0.00	0.35	0.00
Cliff 1-1	2021-09-06	0.09	0.00	0.09	0.00	0.43	0.09	0.09	0.00	0.00	0.09	0.00
M3-6-control	2021-08-27	0.35	0.00	0.00	0.00	0.34	0.81	1.96	0.00	0.00	1.32	0.00
M3-6-control	2021-08-28	0.69	0.00	0.00	0.00	1.08	0.09	1.51	0.00	0.00	0.44	0.00
M3-6-control	2021-08-29	0.52	0.00	0.00	0.00	0.18	0.00	2.38	0.00	0.00	1.47	0.00
M3-6-control	2021-08-30	0.09	0.00	0.00	0.00	0.44	0.35	0.35	0.00	0.00	0.17	0.00
M3-6-control	2021-08-31	0.17	0.00	0.09	0.00	0.26	1.14	2.35	0.00	0.00	1.80	0.00
M3-6-control	2021-09-01	0.36	0.00	0.09	0.00	0.53	1.31	1.65	0.00	0.00	0.94	0.00
M3-6-control	2021-09-02	0.27	0.00	0.18	0.00	0.26	0.00	0.09	0.00	0.00	0.00	0.00
M3-6-control	2021-09-03	0.44	0.00	0.00	0.00	0.43	0.17	0.51	0.00	0.00	0.18	0.00
M3-6-control	2021-09-04	0.26	0.00	0.17	0.00	0.86	0.26	1.37	0.00	0.00	0.53	0.00
M3-6-control	2021-09-05	0.26	0.00	0.00	0.00	0.09	0.17	0.81	0.00	0.00	0.35	0.00
M2 control	2021-08-27	0.17	0.00	0.00	0.00	0.17	0.72	2.50	0.00	0.00	0.96	0.00
M2 control	2021-08-28	0.17	0.00	0.00	0.09	0.72	2.05	3.99	0.00	0.00	1.13	0.00
M2 control	2021-08-29	0.00	0.00	0.00	0.00	0.18	0.71	1.94	0.00	0.00	0.43	0.00
M2 control	2021-08-30	0.09	0.00	0.00	0.00	0.00	0.09	1.58	0.00	0.00	0.60	0.00
M2 control	2021-08-31	0.17	0.00	0.00	0.00	0.09	1.14	2.44	0.17	0.00	1.03	0.00
M2 control	2021-09-01	0.00	0.00	0.00	0.00	0.00	0.78	1.91	0.00	0.00	0.43	0.00
M2 control	2021-09-02	0.09	0.00	0.00	0.00	0.09	0.09	0.34	0.00	0.00	0.18	0.00
M2 control	2021-09-03	0.09	0.00	0.00	0.00	0.43	0.69	3.09	0.00	0.00	0.80	0.00
M2 control	2021-09-04	0.09	0.00	0.00	0.00	0.17	0.00	1.88	0.00	0.00	0.62	0.00
M2 control	2021-09-05	0.00	0.00	0.00	0.00	0.17	0.09	1.79	0.00	0.00	0.09	0.00
Cliff 3	2021-08-31	0.00	0.00	0.00	0.00	0.26	0.00	0.18	0.00	0.00	0.17	0.00
Cliff 3	2021-09-01	0.00	0.00	0.09	0.00	0.45	0.00	0.79	0.09	0.00	0.09	0.00
Cliff 3	2021-09-02	0.00	0.00	0.00	0.00	0.09	0.26	0.00	0.00	0.00	0.00	0.00
Cliff 3	2021-09-03	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.00	0.00	0.17	0.00
Cliff 3	2021-09-04	0.00	0.00	0.09	0.00	0.09	0.00	1.04	0.09	0.00	0.43	0.00
Cliff 3	2021-09-05	0.09	0.00	0.00	0.00	0.00	0.09	1.29	0.00	0.00	0.18	0.00
M3-2	2021-08-27	0.00	0.00	0.18	0.00	0.09	0.17	0.51	0.00	0.00	0.80	0.00
M3-2	2021-08-28	0.09	0.00	0.00	0.00	0.35	0.34	1.20	0.00	0.00	0.62	0.00
M3-2	2021-08-29	0.00	0.00	0.00	0.00	0.34	0.68	3.77	0.09	0.00	1.59	0.00
M3-2	2021-08-30	0.00	0.00	0.00	0.00	0.09	0.00	0.18	0.00	0.00	0.18	0.00
M3-2	2021-08-31	0.00	0.00	0.26	0.00	0.27	1.34	1.51	0.09	0.00	2.44	0.00
M3-2	2021-09-01	0.09	0.00	0.17	0.00	0.27	0.44	1.67	0.00	0.00	2.86	0.00
M3-2	2021-09-02	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2021-09-03	0.00	0.00	0.09	0.00	0.26	0.26	0.35	0.00	0.00	0.43	0.00
M3-2	2021-09-04	0.00	0.00	0.00	0.00	0.26	0.17	1.65	0.09	0.00	0.43	0.00
M3-2	2021-09-05	0.09	0.00	0.09	0.00	0.09	0.17	1.21	0.00	0.00	0.27	0.00
M5-1	2021-08-27	0.09	0.00	0.09	0.00	0.35	0.00	0.43	0.00	0.00	0.18	0.00
M5-1	2021-08-28	0.09	0.00	0.09	0.00	0.34	0.09	0.51	0.00	0.00	0.80	0.00
M5-1	2021-08-29	0.00	0.00	0.09	0.00	0.60	0.26	1.35	0.00	0.00	1.32	0.00
M5-1	2021-08-30	0.09	0.00	0.00	0.00	0.17	0.36	0.18	0.00	0.00	0.79	0.00
M5-1	2021-08-31	0.09	0.00	0.17	0.00	0.63	0.53	1.06	0.00	0.00	0.61	0.00
M5-1	2021-09-01	3.02	0.00	1.11	0.00	4.64	0.09	0.26	0.00	0.00	0.69	0.00
M5-1	2021-09-02	0.43	0.00	0.36	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2021-09-03	1.19	0.00	0.80	0.00	3.70	0.09	0.17	0.00	0.00	0.34	0.00
M5-1	2021-09-04	2.15	0.00	2.57	0.00	6.93	0.00	0.35	0.00	0.00	0.34	0.00
M5-1	2021-09-05	0.09	0.00	0.26	0.00	0.52	0.17	0.17	0.00	0.00	0.54	0.00
Cliff 1-2	2021-08-28	1.68	0.00	0.18	0.00	3.38	3.02	9.86	0.00	0.00	2.05	0.00
Cliff 1-2	2021-08-29	1.50	0.00	0.00	0.00	2.16	2.49	9.39	0.27	0.00	1.24	0.00
Cliff 1-2	2021-08-30	0.61	0.00	0.00	0.00	0.26	0.26	0.63	0.09	0.00	0.09	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-2	2021-08-31	0.61	0.00	0.00	0.00	1.11	0.90	6.51	0.44	0.00	1.05	0.00
Cliff 1-2	2021-09-01	1.73	0.00	0.00	0.00	1.52	0.27	3.90	0.00	0.00	0.09	0.00
Cliff 1-2	2021-09-02	0.09	0.00	0.00	0.00	0.18	0.09	0.26	0.00	0.00	0.09	0.00
Cliff 1-2	2021-09-03	1.54	0.00	0.00	0.00	1.42	0.00	1.23	0.00	0.00	0.52	0.00
Cliff 1-2	2021-09-04	1.62	0.00	0.09	0.00	0.88	0.00	1.74	0.00	0.00	0.17	0.00
Cliff 1-2	2021-09-05	1.79	0.00	0.00	0.00	1.23	0.09	1.21	0.09	0.00	0.68	0.00
Cliff 1-2	2021-09-06	2.41	0.00	0.00	0.00	2.09	0.17	0.00	0.00	0.00	0.18	0.00
Cliff 1-5	2021-08-28	1.86	0.00	0.26	0.00	1.56	1.12	2.49	0.00	0.00	1.60	0.00
Cliff 1-5	2021-08-29	5.11	0.00	0.17	0.09	2.50	2.06	8.62	0.18	0.00	1.42	0.00
Cliff 1-5	2021-08-30	1.23	0.00	0.00	0.00	0.77	0.43	0.36	0.00	0.00	0.18	0.00
Cliff 1-5	2021-08-31	2.09	0.00	0.00	0.00	2.13	0.81	5.35	0.09	0.00	1.23	0.00
Cliff 1-5	2021-09-01	5.20	0.00	0.00	0.00	2.42	0.18	4.17	0.00	0.00	0.35	0.00
Cliff 1-5	2021-09-02	4.91	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	0.09	0.00
Cliff 1-5	2021-09-03	0.09	0.00	0.00	0.00	0.27	0.18	0.09	0.00	0.00	0.09	0.00
Cliff 1-5	2021-09-04	3.07	0.00	0.00	0.00	0.97	0.18	1.13	0.00	0.00	0.09	0.00
Cliff 1-5	2021-09-05	5.20	0.00	0.00	0.00	2.02	0.00	0.95	0.00	0.00	0.51	0.00
Cliff 1-5	2021-09-06	6.33	0.00	0.09	0.00	2.79	0.17	0.00	0.00	0.00	0.18	0.00
M2	2021-08-27	0.18	0.00	0.00	0.00	0.17	1.03	2.74	0.09	0.00	0.53	0.00
M2	2021-08-28	0.18	0.00	0.00	0.17	0.26	1.03	2.73	0.00	0.00	1.06	0.00
M2	2021-08-29	0.00	0.00	0.00	0.00	0.00	0.43	1.17	0.09	0.00	0.26	0.00
M2	2021-08-30	0.09	0.00	0.00	0.00	0.00	0.00	1.43	0.09	0.00	0.35	0.00
M2	2021-08-31	0.17	0.00	0.00	0.00	0.09	0.18	3.01	0.18	0.00	0.44	0.00
M2	2021-09-01	0.00	0.00	0.00	0.00	0.00	0.09	1.50	0.09	0.00	0.26	0.00
M2	2021-09-02	0.17	0.00	0.18	0.00	0.09	0.09	0.09	0.09	0.00	0.17	0.00
M2	2021-09-03	0.26	0.00	0.00	0.09	0.00	0.18	1.74	0.00	0.00	0.34	0.00
M2	2021-09-04	0.18	0.00	0.00	0.00	0.09	0.09	1.47	0.09	0.00	0.09	0.00
M2	2021-09-05	0.00	0.00	0.00	0.00	0.09	0.09	1.29	0.00	0.00	0.00	0.00
Cliff 2-1	2021-08-28	0.09	0.00	0.00	0.00	0.17	0.34	1.20	0.09	0.00	0.71	0.00
Cliff 2-1	2021-08-29	0.09	0.00	0.00	0.00	0.00	0.43	4.01	0.27	0.00	2.56	0.00
Cliff 2-1	2021-08-30	0.00	0.00	0.00	0.00	0.00	0.09	0.27	0.00	0.00	0.44	0.00
Cliff 2-1	2021-08-31	0.00	0.00	0.00	0.00	0.09	0.09	1.06	0.00	0.00	0.61	0.00
Cliff 2-1	2021-09-01	0.00	0.00	0.00	0.00	0.00	0.09	0.88	0.00	0.00	1.30	0.00
Cliff 2-1	2021-09-02	0.00	0.00	0.00	0.00	0.00	0.09	0.35	0.00	0.00	0.43	0.00
Cliff 2-1	2021-09-03	0.00	0.00	0.00	0.00	0.09	0.26	0.09	0.00	0.00	0.43	0.00
Cliff 2-1	2021-09-04	0.00	0.00	0.00	0.00	0.09	1.05	1.91	0.09	0.00	1.02	0.00
Cliff 2-1	2021-09-05	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.34	0.00
Cliff 1-1	2022-05-05	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-06	0.31	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-07	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-10	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-11	0.10	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-12	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-17	0.22	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-19	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-23	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.11	0.00
Cliff 1-1	2022-05-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-25	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-26	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.11	0.00	0.00
Cliff 1-1	2022-05-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-28	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-1	2022-05-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-05-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-06-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-06-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-06-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-06-04	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2022-06-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-05	0.30	0.00	0.10	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-06	0.31	0.00	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.31	0.00
Cliff 1-10	2022-05-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-08	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-10	2.29	0.00	0.00	0.00	0.31	0.10	0.00	0.00	0.00	0.10	0.00
Cliff 1-10	2022-05-11	0.73	0.00	0.21	0.00	0.42	0.52	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-12	0.11	0.00	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.74	0.00
Cliff 1-10	2022-05-13	0.74	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-14	0.43	0.00	0.00	0.00	0.11	0.00	0.32	0.00	0.00	0.43	0.00
Cliff 1-10	2022-05-15	0.11	0.00	0.32	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-17	0.32	0.00	0.00	0.00	0.22	0.11	0.00	0.00	0.00	0.11	0.00
Cliff 1-10	2022-05-18	0.98	0.00	0.11	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-19	0.87	0.00	0.44	0.00	0.11	0.00	0.00	0.00	0.00	0.98	0.00
Cliff 1-10	2022-05-20	0.44	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-21	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-22	0.11	0.00	0.00	0.00	0.11	0.44	0.11	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-23	1.33	0.00	0.11	0.00	0.56	0.44	0.67	0.00	0.00	0.44	0.00
Cliff 1-10	2022-05-24	0.78	0.00	0.00	0.00	0.11	0.22	1.68	0.00	0.00	0.11	0.00
Cliff 1-10	2022-05-25	5.05	0.00	1.01	0.00	2.36	0.79	1.68	0.00	0.00	0.45	0.00
Cliff 1-10	2022-05-26	1.69	0.00	0.23	0.00	0.34	1.13	7.77	0.00	0.00	0.56	0.00
Cliff 1-10	2022-05-27	1.36	0.00	0.23	0.00	0.00	0.11	0.57	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-28	0.23	0.00	0.00	0.00	0.11	1.25	1.48	0.00	0.00	0.34	0.00
Cliff 1-10	2022-05-29	0.23	0.00	0.11	0.00	0.23	0.57	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-05-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-06-01	0.58	0.00	0.00	0.00	0.12	0.00	0.58	0.00	0.00	0.00	0.00
Cliff 1-10	2022-06-02	0.23	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-06-03	0.35	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2022-06-04	0.12	0.00	0.00	0.00	0.23	0.35	0.12	0.00	0.00	0.00	0.00
Cliff 1-10	2022-06-05	0.00	0.00	0.00	0.00	0.23	0.47	0.12	0.00	0.00	0.12	0.00
Cliff 1-2	2022-05-05	0.30	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-06	0.41	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-07	0.10	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.20	0.20	0.00
Cliff 1-2	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-10	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-11	1.78	0.00	0.42	0.00	0.42	0.00	0.10	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-12	1.16	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-13	0.42	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-2	2022-05-14	0.96	0.00	0.11	0.00	0.21	0.00	0.74	0.00	0.00	0.11	0.00
Cliff 1-2	2022-05-15	0.96	0.00	0.11	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-16	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-17	0.54	0.00	0.00	0.00	0.43	0.22	0.32	0.00	0.00	0.11	0.00
Cliff 1-2	2022-05-18	0.98	0.00	0.00	0.00	0.87	0.87	0.00	0.00	0.00	0.33	0.00
Cliff 1-2	2022-05-19	0.98	0.00	0.11	0.00	0.44	0.00	0.11	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-20	0.22	0.00	0.22	0.00	0.33	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-2	2022-05-21	0.22	0.00	0.11	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2022-05-22	0.44	0.00	0.00	0.00	0.11	0.44	3.32	0.00	0.33	0.66	0.00
Cliff 1-2	2022-05-23	0.78	0.00	0.11	0.00	0.67	0.00	12.11	0.00	0.44	0.67	0.00
Cliff 1-2	2022-05-24	0.56	0.00	0.11	0.00	0.00	0.34	3.80	0.00	0.11	0.78	0.00
Cliff 1-2	2022-05-25	1.35	0.00	0.00	0.00	1.01	0.79	12.90	0.00	0.90	1.79	0.00
Cliff 1-2	2022-05-26	0.56	0.00	0.00	0.00	1.01	0.11	17.56	0.00	0.68	1.35	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-2	2022-05-27	1.13	0.00	0.00	0.00	0.34	0.45	0.11	0.00	0.00	0.11	0.00
Cliff 1-2	2022-05-28	1.36	0.00	0.57	0.00	6.70	1.48	0.68	0.00	0.00	0.23	0.00
Cliff 1-2	2022-05-29	0.11	0.00	0.23	0.00	0.00	0.11	0.23	0.00	0.00	0.23	0.00
Cliff 1-2	2022-05-30	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.23	0.00
Cliff 1-2	2022-05-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2022-06-01	3.81	0.00	0.58	0.00	1.50	0.00	1.04	0.00	0.00	0.12	0.00
Cliff 1-2	2022-06-02	1.04	0.00	0.12	0.00	1.85	0.00	0.00	0.00	0.00	0.12	0.00
Cliff 1-2	2022-06-03	0.58	0.00	0.12	0.00	0.35	0.00	0.00	0.00	0.00	0.12	0.00
Cliff 1-2	2022-06-04	0.23	0.00	0.00	0.00	0.23	0.47	0.12	0.00	0.00	0.00	0.00
Cliff 1-2	2022-06-05	0.70	0.00	0.00	0.00	0.58	0.47	0.82	0.00	0.00	0.47	0.00
Cliff 1-3	2022-05-05	0.30	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-06	0.61	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-07	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.20	0.10	0.00
Cliff 1-3	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-10	0.52	0.00	0.10	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-11	2.30	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-12	0.74	0.00	0.00	0.00	0.21	0.00	0.11	0.00	0.00	0.21	0.00
Cliff 1-3	2022-05-13	0.21	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-14	0.64	0.00	0.00	0.00	0.32	0.00	0.74	0.00	0.11	0.21	0.00
Cliff 1-3	2022-05-15	0.75	0.00	2.03	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-16	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-17	1.30	0.00	0.32	0.00	0.11	0.11	0.22	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-18	0.54	0.00	0.54	0.00	1.30	0.11	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-19	0.44	0.00	0.11	0.00	1.09	0.00	0.11	0.00	0.00	0.11	0.00
Cliff 1-3	2022-05-20	0.00	0.00	0.11	0.00	0.55	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-3	2022-05-21	0.11	0.00	0.11	0.00	0.44	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-3	2022-05-22	0.11	0.00	0.00	0.00	0.33	3.43	2.21	0.00	0.00	1.66	0.00
Cliff 1-3	2022-05-23	0.44	0.00	0.22	0.00	0.33	0.00	1.11	0.00	0.00	0.22	0.00
Cliff 1-3	2022-05-24	0.00	0.00	0.00	0.00	0.34	0.56	2.46	0.00	0.11	0.67	0.00
Cliff 1-3	2022-05-25	0.90	0.00	0.11	0.00	1.57	0.22	4.82	0.00	0.11	0.67	0.00
Cliff 1-3	2022-05-26	0.45	0.00	0.23	0.00	0.68	0.34	5.97	0.00	0.00	0.56	0.00
Cliff 1-3	2022-05-27	0.23	0.00	0.00	0.00	0.11	0.11	0.23	0.00	0.00	0.00	0.00
Cliff 1-3	2022-05-28	0.45	0.00	0.23	0.00	0.11	1.70	1.48	0.00	0.00	0.57	0.00
Cliff 1-3	2022-05-29	0.23	0.00	0.46	0.00	0.11	0.11	0.57	0.00	0.00	0.68	0.00
Cliff 1-3	2022-05-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
Cliff 1-3	2022-05-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-06-01	0.69	0.00	0.00	0.00	0.35	0.00	0.12	0.00	0.00	0.12	0.00
Cliff 1-3	2022-06-02	0.69	0.00	0.58	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-06-03	0.12	0.00	0.12	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2022-06-04	0.12	0.00	0.00	0.00	0.23	0.12	0.00	0.00	0.00	0.12	0.00
Cliff 1-3	2022-06-05	2.10	0.00	0.35	0.00	0.70	0.35	0.47	0.00	0.00	0.58	0.00
Cliff 1-4	2022-05-05	0.41	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-06	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-07	0.20	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-10	0.62	0.00	0.31	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-11	2.51	0.00	0.31	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-12	0.74	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-13	0.21	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-14	0.96	0.00	0.11	0.00	0.00	0.53	0.53	0.00	0.00	0.43	0.00
Cliff 1-4	2022-05-15	1.28	0.00	2.25	0.00	1.07	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-16	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-17	0.97	0.00	0.00	0.00	0.43	0.22	0.22	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-18	1.41	0.00	0.00	0.00	0.33	0.22	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-19	1.64	0.00	0.11	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-20	0.33	0.00	0.33	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-21	0.55	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-22	0.22	0.00	0.33	0.00	0.11	0.33	1.88	0.00	0.00	0.22	0.00
Cliff 1-4	2022-05-23	0.56	0.00	0.22	0.00	0.00	0.22	0.56	0.00	0.00	0.11	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-4	2022-05-24	0.11	0.00	0.11	0.00	0.00	0.89	4.58	0.00	0.00	0.56	0.00
Cliff 1-4	2022-05-25	0.90	0.00	1.35	0.00	1.01	1.01	4.26	0.00	0.00	1.01	0.00
Cliff 1-4	2022-05-26	0.68	0.00	0.45	0.00	0.34	0.56	8.78	0.00	0.11	0.45	0.00
Cliff 1-4	2022-05-27	0.23	0.00	0.91	0.00	0.11	0.45	0.34	0.00	0.00	0.11	0.00
Cliff 1-4	2022-05-28	0.23	0.00	0.11	0.00	0.11	12.95	1.48	0.00	0.11	8.41	0.00
Cliff 1-4	2022-05-29	0.87	0.00	0.00	0.00	1.31	2.18	2.61	0.00	0.00	0.44	0.00
Cliff 1-4	2022-05-30	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-05-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2022-06-01	0.31	0.00	0.31	0.00	0.41	0.00	0.51	0.00	0.00	0.00	0.00
Cliff 1-4	2022-06-02	2.06	0.00	0.31	0.00	2.78	0.00	0.00	0.00	0.00	0.41	0.00
Cliff 1-4	2022-06-03	0.52	0.00	0.00	0.00	0.41	0.00	0.52	0.00	0.00	0.00	0.00
Cliff 1-4	2022-06-04	0.31	0.00	0.00	0.00	0.21	0.94	0.42	0.00	0.00	0.10	0.00
Cliff 1-4	2022-06-05	0.98	0.00	0.44	0.00	0.44	0.87	0.54	0.00	0.00	0.11	0.00
Cliff 1-5	2022-05-05	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-5	2022-05-06	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-5	2022-05-07	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-5	2022-05-08	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-10	0.54	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-5	2022-05-11	1.52	0.00	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-12	0.55	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-13	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-14	0.88	0.00	0.00	0.00	0.22	0.00	0.33	0.00	0.00	0.22	0.00
Cliff 1-5	2022-05-15	0.44	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-16	0.22	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-5	2022-05-17	0.78	0.00	0.11	0.00	0.00	0.11	0.22	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-18	1.46	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-19	1.35	0.00	0.00	0.00	0.45	0.11	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-20	0.34	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-21	0.45	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2022-05-22	0.68	0.00	0.00	0.00	0.46	0.46	1.71	0.00	0.00	0.11	0.00
Cliff 1-5	2022-05-23	0.57	0.00	0.34	0.00	0.23	0.11	0.69	0.00	0.00	0.23	0.00
Cliff 1-5	2022-05-24	0.11	0.00	0.11	0.00	0.00	0.92	2.76	0.00	0.00	0.46	0.00
Cliff 1-5	2022-05-25	4.15	0.00	0.81	0.00	0.69	0.81	3.81	0.00	0.00	0.35	0.00
Cliff 1-5	2022-05-26	2.20	0.00	0.35	0.00	0.46	0.81	6.70	0.00	0.12	0.00	0.00
Cliff 1-5	2022-05-27	1.04	0.00	0.12	0.00	0.46	0.00	0.23	0.00	0.00	0.35	0.00
Cliff 1-5	2022-05-28	0.12	0.00	0.00	0.00	0.00	5.59	1.28	0.00	0.00	2.10	0.00
Cliff 1-5	2022-05-29	0.00	0.00	0.00	0.00	0.00	0.12	0.35	0.00	0.00	0.47	0.00
Cliff 1-6	2022-05-05	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-06	0.10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-07	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-08	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-10	0.21	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-11	1.36	0.00	0.21	0.00	0.31	0.00	0.00	0.00	0.00	0.10	0.00
Cliff 1-6	2022-05-12	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-13	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-14	0.43	0.00	0.00	0.00	0.11	0.00	0.21	0.00	0.00	0.43	0.00
Cliff 1-6	2022-05-15	0.32	0.00	0.43	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-17	0.32	0.00	0.22	0.00	0.00	0.22	0.22	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-18	1.30	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-19	0.98	0.00	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-20	0.11	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-21	0.22	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-22	0.77	0.00	0.00	0.00	0.00	0.22	1.22	0.00	0.00	0.22	0.00
Cliff 1-6	2022-05-23	0.78	0.00	0.44	0.00	0.22	0.11	0.67	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-24	0.11	0.00	0.11	0.00	0.11	1.12	3.35	0.00	0.00	0.45	0.00
Cliff 1-6	2022-05-25	3.03	0.00	0.56	0.00	1.23	0.79	3.25	0.00	0.00	0.22	0.00
Cliff 1-6	2022-05-26	1.91	0.00	0.00	0.00	0.34	0.90	6.19	0.00	0.00	0.45	0.00
Cliff 1-6	2022-05-27	1.36	0.00	0.00	0.00	0.34	0.11	0.45	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-6	2022-05-28	0.23	0.00	0.00	0.00	0.00	1.48	0.57	0.00	0.00	0.11	0.00
Cliff 1-6	2022-05-29	0.57	0.00	0.11	0.00	0.23	0.34	1.25	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-30	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-05-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-06-01	0.35	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.12	0.00
Cliff 1-6	2022-06-02	1.62	0.00	0.12	0.00	1.62	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2022-06-03	0.70	0.00	0.00	0.00	0.23	0.00	0.81	0.00	0.00	0.46	0.00
Cliff 1-6	2022-06-04	0.47	0.00	0.23	0.00	0.23	0.70	0.58	0.00	0.00	0.12	0.00
Cliff 1-6	2022-06-05	0.12	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-05	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00
Cliff 1-7	2022-05-06	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-07	0.13	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-08	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-10	1.58	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-11	2.25	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.13	0.00
Cliff 1-7	2022-05-12	0.93	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-13	0.54	0.00	0.27	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-14	1.08	0.00	0.27	0.00	0.41	0.00	0.68	0.00	0.14	0.00	0.00
Cliff 1-7	2022-05-15	0.41	0.00	0.27	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-16	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-17	0.41	0.00	0.10	0.00	0.31	0.20	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-18	1.54	0.00	0.00	0.00	0.31	0.00	0.10	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-19	1.13	0.00	0.10	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-20	0.13	0.00	0.26	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-21	0.41	0.00	0.20	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-22	0.81	0.00	0.00	0.00	0.20	0.31	1.22	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-23	0.51	0.00	0.00	0.00	0.72	0.00	0.92	0.00	0.00	0.31	0.00
Cliff 1-7	2022-05-24	0.10	0.00	0.00	0.00	0.00	0.51	4.12	0.00	0.10	0.51	0.00
Cliff 1-7	2022-05-25	2.69	0.00	1.14	0.00	1.76	1.24	3.21	0.00	0.00	0.41	0.00
Cliff 1-7	2022-05-26	0.62	0.00	0.10	0.00	0.52	1.04	7.69	0.00	0.00	0.52	0.00
Cliff 1-7	2022-05-27	0.31	0.00	0.00	0.00	0.42	0.21	0.63	0.00	0.00	0.10	0.00
Cliff 1-7	2022-05-28	0.21	0.00	0.00	0.00	0.00	1.68	1.79	0.00	0.00	0.42	0.00
Cliff 1-7	2022-05-29	0.21	0.00	0.21	0.00	0.11	0.42	0.74	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-05-31	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-06-01	0.43	0.00	0.11	0.00	0.22	0.00	0.75	0.00	0.00	0.22	0.00
Cliff 1-7	2022-06-02	1.19	0.00	0.32	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2022-06-03	0.33	0.00	0.22	0.00	0.98	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-7	2022-06-04	0.22	0.00	0.00	0.00	0.65	0.76	0.22	0.00	0.00	0.33	0.00
Cliff 1-7	2022-06-05	0.55	0.00	0.00	0.00	0.00	0.44	0.11	0.00	0.00	0.00	0.00
Cliff 1-8	2022-05-05	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2022-05-06	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2022-05-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2022-05-08	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2022-05-10	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-8	2022-05-11	1.02	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 1-8	2022-05-12	0.11	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2022-05-13	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2022-05-14	0.69	0.00	0.00	0.00	0.34	0.00	0.11	0.00	0.00	0.11	0.00
Cliff 1-8	2022-05-15	0.46	0.00	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2022-05-05	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
Cliff 1-9	2022-05-06	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2022-05-07	0.23	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2022-05-08	0.23	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-05	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-06	0.31	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-control	2022-05-07	0.10	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-08	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-10	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-11	1.47	0.00	0.31	0.00	0.52	0.00	0.10	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-12	1.79	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-13	0.11	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.11	0.00	0.00
Cliff 1-control	2022-05-14	1.17	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-15	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-16	0.11	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-17	0.65	0.00	0.00	0.00	0.54	0.11	0.32	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-18	0.98	0.00	0.22	0.00	0.33	0.11	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-19	6.98	0.00	0.98	0.00	3.60	0.00	0.00	0.00	0.11	0.55	0.00
Cliff 1-control	2022-05-20	0.99	0.00	0.33	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2022-05-21	1.54	0.00	0.11	0.00	0.55	0.00	0.00	0.00	0.00	0.22	0.00
Cliff 1-control	2022-05-22	0.33	0.00	0.00	0.00	0.22	0.33	2.99	0.00	0.22	0.33	0.00
Cliff 1-control	2022-05-23	10.67	0.00	2.00	0.00	2.56	0.11	11.00	0.00	1.67	4.56	0.00
Cliff 1-control	2022-05-24	1.34	0.00	0.00	0.00	0.22	1.12	13.74	0.00	0.00	1.12	0.00
Cliff 1-control	2022-05-25	2.80	0.00	0.00	0.00	0.56	0.90	22.99	0.00	0.22	3.03	0.00
Cliff 1-control	2022-05-26	1.01	0.00	0.11	0.00	1.13	1.58	69.68	0.00	0.23	4.73	0.00
Cliff 1-control	2022-05-27	0.68	0.00	0.00	0.00	0.68	0.23	0.34	0.00	0.00	0.11	0.00
Cliff 1-control	2022-05-28	1.59	0.00	0.23	0.00	0.57	1.36	1.59	0.00	0.00	0.11	0.00
Cliff 1-control	2022-05-29	0.91	0.00	0.11	0.00	0.00	1.14	3.08	0.00	0.00	0.91	0.00
Cliff 1-control	2022-05-30	0.00	0.00	0.00	0.00	0.11	0.11	0.34	0.00	0.00	0.34	0.00
Cliff 1-control	2022-05-31	0.34	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
Cliff 1-control	2022-06-01	1.04	0.00	0.23	0.00	0.23	0.00	0.35	0.00	0.00	0.00	0.00
Cliff 1-control	2022-06-02	1.62	0.00	0.00	0.00	1.85	0.00	0.23	0.00	0.00	0.00	0.00
Cliff 1-control	2022-06-03	1.28	0.00	0.12	0.00	0.70	0.00	0.12	0.00	0.00	0.00	0.00
Cliff 1-control	2022-06-04	0.35	0.00	0.35	0.00	0.47	1.51	1.28	0.00	0.00	0.00	0.00
Cliff 1-control	2022-06-05	0.58	0.00	0.12	0.00	0.23	0.58	0.82	0.00	0.00	0.12	0.00
Cliff 2-1	2022-05-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-1	2022-05-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-1	2022-05-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 2-1	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-1	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
Cliff 2-2	2022-05-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-2	2022-05-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-2	2022-05-07	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.10	0.00
Cliff 2-2	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-2	2022-05-09	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.21	0.00
Cliff 2-2	2022-05-10	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-control	2022-05-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
Cliff 2-control	2022-05-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-control	2022-05-07	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00
Cliff 2-control	2022-05-08	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-control	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-control	2022-05-10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-control	2022-05-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 2-control	2022-05-12	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.21	0.00
Cliff 2-control	2022-05-13	0.11	0.00	0.00	0.00	0.11	0.32	0.11	0.00	0.00	0.11	0.00
Cliff 2-control	2022-05-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-05	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
Cliff 3	2022-05-06	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-10	0.10	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-11	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
Cliff 3	2022-05-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-13	0.00	0.00	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.11	0.00
Cliff 3	2022-05-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 3	2022-05-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-17	0.11	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 3	2022-05-23	0.00	0.00	0.00	0.00	0.00	0.22	0.11	0.00	0.00	0.33	0.00
Cliff 3	2022-05-24	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.22	0.00
Cliff 3	2022-05-25	0.00	0.00	0.00	0.00	0.11	0.11	0.22	0.00	0.00	0.22	0.00
Cliff 3	2022-05-26	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-27	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00
Cliff 3	2022-05-28	0.00	0.00	0.11	0.00	0.00	0.34	0.57	0.00	0.00	0.11	0.00
Cliff 3	2022-05-29	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.11	0.00
Cliff 3	2022-05-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-05	0.10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 3-control	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-10	0.10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.10	0.00
Cliff 3-control	2022-05-11	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
Cliff 3-control	2022-05-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-13	0.00	0.00	0.00	0.00	0.11	0.00	0.21	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-17	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-18	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 3-control	2022-05-23	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.44	0.00
Cliff 3-control	2022-05-24	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.11	0.00
Cliff 3-control	2022-05-25	0.00	0.00	0.11	0.00	0.00	0.22	0.22	0.00	0.00	0.22	0.00
Cliff 3-control	2022-05-26	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.11	0.00
Cliff 3-control	2022-05-27	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.11	0.00
Cliff 3-control	2022-05-28	0.00	0.00	0.00	0.00	0.00	0.45	0.11	0.00	0.00	0.11	0.00
Cliff 3-control	2022-05-29	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.11	0.00
Cliff 3-control	2022-05-30	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
Cliff 6	2022-05-06	0.20	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
Cliff 6	2022-05-07	1.13	0.00	0.20	0.00	0.10	0.00	0.51	0.00	0.00	0.00	0.00
Cliff 6	2022-05-08	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2022-05-10	1.14	0.00	0.83	0.00	0.42	0.00	0.52	0.00	0.00	0.21	0.00
Cliff 6	2022-05-11	0.42	0.00	0.10	0.00	0.00	0.00	0.52	0.00	0.10	0.21	0.00
Cliff 6	2022-05-12	1.47	0.00	0.21	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2022-05-13	0.11	0.00	0.21	0.00	0.00	0.00	0.32	0.00	0.11	0.00	0.00
Cliff 6	2022-05-14	3.19	0.00	0.11	0.00	2.13	0.00	0.00	0.00	0.00	0.11	0.00
Cliff 6	2022-05-15	0.43	0.00	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2022-05-16	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2022-05-17	0.32	0.00	0.00	0.00	0.11	0.22	1.08	0.00	0.32	0.43	0.00
Cliff 6	2022-05-18	0.33	0.00	0.00	0.00	0.11	0.00	0.22	0.00	0.00	0.43	0.00
Cliff 6	2022-05-19	0.00	0.00	0.00	0.00	0.00	0.44	0.22	0.00	0.00	1.20	0.00
Cliff 6	2022-05-20	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2022-05-21	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2022-05-22	1.00	0.00	0.00	0.00	0.44	0.44	4.87	0.00	0.11	0.33	0.00
Cliff 6	2022-05-23	1.78	0.00	0.22	0.00	0.00	0.89	6.11	0.00	0.78	3.33	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 6	2022-05-24	0.78	0.00	0.22	0.00	0.00	2.79	2.90	0.00	0.00	9.72	0.00
Cliff 6	2022-05-25	3.23	0.00	0.00	0.00	0.00	23.22	8.39	0.00	0.00	101.27	0.00
Cliff 6-control	2022-05-06	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-07	0.72	0.00	0.00	0.00	0.72	0.00	0.20	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-10	0.31	0.00	0.00	0.00	0.21	0.00	0.21	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-11	1.15	0.00	0.00	0.00	0.52	0.00	0.10	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-12	1.26	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-14	0.74	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-15	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-16	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-17	0.86	0.00	0.00	0.00	0.32	0.00	0.76	0.00	0.00	0.22	0.00
Cliff 6-control	2022-05-18	0.22	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-19	0.11	0.00	0.00	0.00	0.22	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-20	0.22	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-21	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-22	1.00	0.00	0.00	0.00	0.77	0.00	5.20	0.00	0.00	0.22	0.00
Cliff 6-control	2022-05-23	1.67	0.00	0.33	0.00	0.56	0.00	7.89	0.00	0.44	0.56	0.00
Cliff 6-control	2022-05-24	0.89	0.00	0.11	0.00	0.11	0.00	0.89	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-25	0.56	0.00	0.00	0.00	0.22	0.00	2.80	0.00	0.00	0.22	0.00
Cliff 6-control	2022-05-26	2.14	0.00	0.00	0.00	0.79	0.11	4.62	0.00	0.23	0.11	0.00
Cliff 6-control	2022-05-27	0.57	0.00	0.00	0.00	0.57	0.00	0.23	0.00	0.00	0.00	0.00
Cliff 6-control	2022-05-28	0.91	0.00	0.11	0.00	1.59	0.00	0.80	0.00	0.00	0.00	0.11
Cliff 6-control	2022-05-29	1.14	0.00	0.00	0.00	0.68	0.00	3.31	0.00	0.34	0.57	0.00
Cliff 6-control	2022-05-30	0.23	0.00	0.00	0.00	0.11	0.00	1.60	0.00	0.00	0.11	0.00
M2	2022-05-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-05	0.81	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-06	0.20	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
M2	2022-05-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-08	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
M2	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-10	0.10	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
M2	2022-05-11	0.21	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-12	0.21	0.00	0.00	0.00	0.11	0.00	0.21	0.00	0.00	0.00	0.00
M2	2022-05-13	0.74	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M2	2022-05-14	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-15	0.32	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-16	0.22	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-17	0.65	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00
M2	2022-05-18	0.98	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-19	0.33	0.00	0.00	0.00	0.11	0.11	0.11	0.00	0.00	0.22	0.00
M2	2022-05-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2	2022-05-22	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.22	0.00
M2	2022-05-23	0.22	0.00	0.00	0.00	0.11	0.56	0.00	0.00	0.00	0.11	0.00
M2	2022-05-24	0.00	0.00	0.00	0.00	0.00	1.01	6.37	0.00	0.56	0.89	0.00
M2	2022-05-25	0.11	0.00	0.00	0.00	0.00	0.45	1.57	0.00	0.00	0.22	0.00
M2	2022-05-26	0.11	0.00	0.00	0.00	0.11	0.68	1.91	0.00	0.11	0.11	0.00
M2	2022-05-27	0.34	0.00	0.00	0.00	0.34	0.45	2.72	0.00	0.00	0.23	0.00
M2	2022-05-28	0.68	0.00	0.00	0.00	0.00	0.68	2.50	0.00	0.00	0.23	0.00
M2	2022-05-29	0.23	0.00	0.00	0.00	0.00	0.91	1.48	0.00	0.00	0.46	0.00
M2	2022-05-30	0.69	0.00	0.00	0.00	0.23	0.11	2.86	0.00	0.00	1.15	0.00
M2	2022-05-31	0.11	0.00	0.00	0.00	0.00	0.11	0.46	0.00	0.00	0.00	0.00
M2	2022-06-01	0.35	0.00	0.00	0.00	0.00	0.46	1.50	0.00	0.00	0.35	0.00
M2	2022-06-02	0.12	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00
M2	2022-06-03	0.12	0.00	0.00	0.00	0.00	0.23	1.28	0.00	0.00	0.00	0.00
M2	2022-06-04	0.23	0.00	0.00	0.00	0.12	0.23	1.51	0.00	0.00	0.47	0.00
M2	2022-06-05	0.12	0.00	0.00	0.00	0.12	0.23	0.70	0.00	0.00	0.12	0.00
M2	2022-06-06	0.12	0.00	0.00	0.00	0.12	0.47	0.70	0.00	0.00	0.23	0.00
M2	2022-06-07	0.12	0.00	0.00	0.00	0.12	2.70	0.23	0.00	0.00	1.41	0.00
M2	2022-06-08	0.12	0.00	0.00	0.00	0.24	0.00	0.94	0.00	0.00	0.24	0.00
M2	2022-06-09	0.24	0.00	0.00	0.00	0.00	0.35	0.59	0.00	0.00	0.47	0.00
M2	2022-06-10	0.59	0.00	0.00	0.00	0.35	0.35	1.18	0.00	0.00	0.59	0.00
M2	2022-06-11	0.24	0.00	0.00	0.00	0.47	0.59	0.36	0.00	0.00	0.24	0.00
M2	2022-06-12	0.71	0.00	0.00	0.00	0.24	0.95	2.97	0.00	0.59	1.31	0.00
M2	2022-06-13	0.48	0.00	0.12	0.00	0.24	0.59	3.33	0.00	0.12	1.07	0.00
M2	2022-06-14	0.36	0.00	0.00	0.00	0.36	0.95	5.48	0.00	0.00	1.43	0.00
M2	2022-06-15	0.12	0.00	0.00	0.00	0.12	0.71	3.81	0.00	0.00	0.95	0.00
M2	2022-06-16	0.00	0.00	0.00	0.00	0.12	0.36	0.24	0.00	0.00	0.00	0.00
M2	2022-06-17	0.24	0.00	0.00	0.00	0.12	0.72	3.82	0.00	0.00	0.95	0.00
M2	2022-06-18	0.84	0.00	0.00	0.00	0.00	1.67	1.43	0.00	0.00	0.72	0.00
M2	2022-06-19	0.36	0.00	0.00	0.00	0.36	15.30	7.17	0.00	0.00	8.49	0.00
M2	2022-06-20	1.20	0.00	0.36	0.00	0.60	2.75	6.33	0.00	0.00	2.51	0.00
M2	2022-06-21	0.24	0.00	0.00	0.00	0.00	0.96	2.63	0.00	0.00	0.72	0.00
M2	2022-06-22	0.60	0.00	0.12	0.00	0.00	1.67	3.23	0.00	0.24	2.63	0.00
M2	2022-06-23	0.12	0.00	0.00	0.00	0.60	0.72	3.34	0.00	0.00	1.19	0.00
M2	2022-06-24	0.00	0.00	0.00	0.00	0.00	1.07	3.20	0.00	0.00	0.71	0.00
M2 control	2022-05-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-05	0.81	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-06	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
M2 control	2022-05-07	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-08	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-10	0.00	0.00	0.00	0.00	0.42	0.00	0.21	0.00	0.00	0.00	0.00
M2 control	2022-05-11	0.31	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-12	0.21	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.11	0.00
M2 control	2022-05-13	0.21	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-14	0.32	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-15	0.21	0.00	0.11	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-16	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-17	0.43	0.00	0.00	0.00	0.43	0.22	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-18	0.76	0.00	0.11	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-19	0.22	0.00	0.00	0.00	0.00	0.11	0.33	0.00	0.00	0.22	0.00
M2 control	2022-05-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-21	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2 control	2022-05-22	0.11	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.11	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M2 control	2022-05-23	0.22	0.00	0.00	0.00	0.22	0.44	0.22	0.00	0.00	0.11	0.00
M2 control	2022-05-24	0.00	0.00	0.00	0.00	0.11	1.23	6.15	0.00	0.22	1.12	0.00
M2 control	2022-05-25	0.11	0.00	0.00	0.00	0.00	0.34	1.68	0.00	0.11	0.11	0.00
M2 control	2022-05-26	0.23	0.00	0.00	0.00	0.00	0.79	3.15	0.00	0.11	0.34	0.00
M2 control	2022-05-27	0.45	0.00	0.23	0.00	0.00	0.57	2.60	0.00	0.00	0.34	0.00
M2 control	2022-05-28	0.23	0.00	0.11	0.00	0.45	0.80	2.50	0.00	0.00	0.23	0.00
M2 control	2022-05-29	0.00	0.00	0.00	0.00	0.11	2.28	2.17	0.00	0.00	0.34	0.00
M2 control	2022-05-30	0.46	0.00	0.00	0.00	0.34	0.11	3.55	0.00	0.00	0.46	0.00
M2 control	2022-05-31	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.00
M2 control	2022-06-01	0.12	0.00	0.00	0.00	0.12	0.12	2.88	0.00	0.12	0.23	0.00
M2 control	2022-06-02	0.00	0.00	0.00	0.00	0.12	0.23	0.00	0.00	0.00	0.00	0.00
M2 control	2022-06-03	0.12	0.00	0.00	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
M2 control	2022-06-04	0.23	0.00	0.00	0.00	0.12	0.23	1.86	0.00	0.00	0.35	0.00
M2 control	2022-06-05	0.12	0.00	0.00	0.00	0.12	0.12	0.70	0.00	0.00	0.23	0.00
M2 control	2022-06-06	0.00	0.00	0.00	0.00	0.12	0.59	0.94	0.00	0.00	0.23	0.00
M2 control	2022-06-07	0.12	0.00	0.00	0.00	0.00	0.47	0.59	0.00	0.00	0.00	0.00
M2 control	2022-06-08	0.12	0.00	0.00	0.00	0.00	0.12	1.41	0.00	0.12	0.12	0.00
M2 control	2022-06-09	0.00	0.00	0.12	0.00	0.12	0.47	1.18	0.00	0.00	0.24	0.00
M2 control	2022-06-10	0.35	0.00	0.00	0.00	0.35	0.35	1.89	0.00	0.00	0.00	0.00
M2 control	2022-06-11	0.00	0.00	0.00	0.00	0.59	0.71	0.71	0.00	0.00	0.00	0.00
M2 control	2022-06-12	0.24	0.00	0.00	0.00	0.36	1.31	3.33	0.00	0.12	1.31	0.00
M2 control	2022-06-13	0.12	0.00	0.00	0.00	0.48	1.31	4.40	0.00	0.00	0.71	0.00
M2 control	2022-06-14	0.12	0.00	0.00	0.00	0.60	1.07	4.76	0.00	0.00	1.19	0.00
M2 control	2022-06-15	0.00	0.00	0.00	0.00	0.12	1.55	4.29	0.00	0.00	0.24	0.00
M2 control	2022-06-16	0.12	0.00	0.00	0.00	0.00	0.36	0.36	0.00	0.00	0.12	0.00
M2 control	2022-06-17	0.36	0.00	0.00	0.00	0.00	0.95	4.89	0.00	0.00	0.60	0.00
M2 control	2022-06-18	0.72	0.00	0.12	0.00	0.48	2.39	1.20	0.00	0.00	0.48	0.00
M2 control	2022-06-19	0.48	0.00	0.00	0.00	0.36	18.53	7.53	0.00	0.24	7.53	0.00
M2 control	2022-06-20	0.84	0.00	0.36	0.00	0.72	5.50	6.81	0.00	0.00	3.94	0.00
M2 control	2022-06-21	0.24	0.00	0.00	0.00	0.12	0.84	2.63	0.00	0.12	0.72	0.00
M2 control	2022-06-22	1.02	0.00	0.00	0.00	0.29	3.94	5.83	0.00	0.15	1.60	0.00
M3-1	2022-05-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-06	0.00	0.00	0.00	0.00	0.10	0.82	0.00	0.00	0.00	0.10	0.00
M3-1	2022-05-07	0.20	0.00	0.00	0.00	0.41	0.61	0.20	0.00	0.00	0.41	0.00
M3-1	2022-05-08	0.31	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-09	0.10	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-10	1.15	0.00	0.21	0.00	1.04	11.35	1.25	0.00	0.00	6.25	0.00
M3-1	2022-05-11	0.21	0.00	0.00	0.00	0.00	33.82	1.99	0.00	0.00	12.25	0.10
M3-1	2022-05-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-13	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-14	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.11	0.00
M3-1	2022-05-15	0.11	0.00	0.00	0.00	0.21	0.11	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-16	0.97	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-17	0.43	0.00	0.11	0.00	0.00	0.11	0.11	0.00	0.00	0.11	0.00
M3-1	2022-05-18	0.22	0.00	0.22	0.00	0.22	0.11	0.11	0.00	0.00	0.00	0.00
M3-1	2022-05-19	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-20	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-21	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-22	0.00	0.00	0.22	0.00	0.78	0.00	0.11	0.00	0.00	0.11	0.00
M3-1	2022-05-23	0.22	0.00	1.45	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
M3-1	2022-05-24	0.22	0.00	0.34	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2022-05-25	0.34	0.00	0.67	0.00	0.22	0.22	0.22	0.00	0.00	0.11	0.00
M3-1	2022-05-26	0.68	0.00	1.13	0.00	0.90	0.00	0.90	0.00	0.00	0.23	0.00
M3-1	2022-05-27	0.00	0.00	0.68	0.00	0.45	0.23	0.23	0.00	0.00	0.00	0.00
M3-1	2022-05-28	0.57	0.00	0.68	0.00	1.14	0.45	0.00	0.00	0.00	0.11	0.00
M3-1	2022-05-29	0.11	0.00	0.46	0.00	0.57	0.23	0.34	0.00	0.00	0.11	0.00
M3-1	2022-05-30	0.11	0.00	0.11	0.00	0.00	0.11	0.00	0.00	0.00	0.23	0.00
M3-2	2022-05-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2022-05-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2022-05-06	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.10	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M3-2	2022-05-07	0.10	0.00	0.00	0.00	0.00	3.38	0.61	0.00	0.00	0.92	0.10
M3-2	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2022-05-10	2.70	0.00	0.21	0.00	2.50	0.62	0.10	0.00	0.00	0.42	0.00
M3-2	2022-05-11	0.00	0.00	0.00	0.00	0.00	10.47	0.94	0.00	0.00	4.50	0.00
M3-2	2022-05-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2022-05-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2022-05-14	0.00	0.00	0.11	0.00	0.00	0.11	0.00	0.00	0.00	0.11	0.00
M3-2	2022-05-15	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2022-05-16	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2022-05-17	0.00	0.00	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.22	0.00
M3-2	2022-05-18	0.00	0.00	0.00	0.00	0.22	0.11	0.11	0.00	0.00	0.00	0.00
M3-2	2022-05-19	0.00	0.00	0.00	0.00	0.11	0.11	0.11	0.00	0.00	0.00	0.00
M3-2	2022-05-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2022-05-21	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2022-05-22	0.11	0.00	0.00	0.00	0.11	0.00	0.66	0.00	0.00	0.00	0.00
M3-2	2022-05-23	0.11	0.00	0.11	0.00	0.11	0.11	0.33	0.00	0.00	0.00	0.00
M3-2	2022-05-24	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.11	0.00
M3-2	2022-05-25	0.11	0.00	0.00	0.00	0.00	0.56	0.45	0.00	0.11	0.11	0.00
M3-2	2022-05-26	0.00	0.00	0.00	0.00	0.23	0.00	1.13	0.00	0.00	0.00	0.00
M3-2	2022-05-27	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.23	0.00
M3-2	2022-05-28	0.00	0.00	0.00	0.00	0.11	0.11	0.11	0.00	0.00	0.00	0.00
M3-2	2022-05-29	0.00	0.00	0.00	0.00	0.11	0.23	0.34	0.00	0.00	0.11	0.00
M3-2	2022-05-30	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.23	0.00
M3-6-control	2022-05-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-05	0.10	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-06	0.10	0.00	0.10	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-07	0.20	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-08	0.21	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-09	0.21	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-10	0.42	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-11	0.31	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-12	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-13	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
M3-6-control	2022-05-14	0.11	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-15	0.11	0.00	0.21	0.00	0.00	18.18	2.03	0.00	0.00	9.30	0.00
M3-6-control	2022-05-16	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00
M3-6-control	2022-05-17	0.22	0.00	0.00	0.00	0.43	0.00	0.22	0.00	0.00	0.00	0.00
M3-6-control	2022-05-18	0.00	0.00	0.00	0.00	0.22	0.76	0.22	0.00	0.00	0.43	0.00
M3-6-control	2022-05-19	0.33	0.00	0.11	0.00	0.11	14.29	0.22	0.00	0.00	4.69	0.00
M3-6-control	2022-05-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-05-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
M3-6-control	2022-05-22	0.33	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M3-6-control	2022-05-23	0.11	0.00	0.00	0.00	0.00	0.11	0.33	0.00	0.00	0.00	0.00
M3-6-control	2022-05-24	0.22	0.00	0.11	0.00	0.11	0.11	0.00	0.00	0.00	0.11	0.00
M3-6-control	2022-05-25	0.11	0.00	0.11	0.00	0.11	0.11	0.56	0.00	0.11	0.45	0.00
M3-6-control	2022-05-26	0.34	0.00	0.45	0.00	0.00	0.56	1.01	0.00	0.00	0.23	0.00
M3-6-control	2022-05-27	0.11	0.00	0.00	0.00	0.11	0.23	0.11	0.00	0.00	0.11	0.00
M3-6-control	2022-05-28	0.23	0.00	0.45	0.00	0.34	0.68	0.57	0.00	0.00	0.11	0.00
M3-6-control	2022-05-29	0.00	0.00	0.11	0.00	0.23	0.34	0.11	0.00	0.00	0.23	0.00
M3-6-control	2022-05-30	0.46	0.00	0.11	0.00	0.11	0.11	0.46	0.00	0.00	0.00	0.00
M3-6-control	2022-05-31	0.00	0.00	0.34	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-06-01	1.38	0.00	0.35	0.00	0.58	0.12	5.08	0.00	0.12	0.23	0.00
M3-6-control	2022-06-02	0.12	0.00	0.12	0.00	0.00	0.12	0.23	0.00	0.00	0.12	0.00
M3-6-control	2022-06-03	0.58	0.00	0.00	0.00	0.35	0.00	2.79	0.00	0.00	0.58	0.00
M3-6-control	2022-06-04	0.47	0.00	0.12	0.00	0.23	0.00	1.40	0.00	0.00	0.12	0.00
M3-6-control	2022-06-05	2.33	0.00	0.35	0.00	0.47	0.00	0.35	0.00	0.00	0.12	0.00
M3-6-control	2022-06-06	2.46	0.00	0.59	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2022-06-07	0.70	0.00	0.35	0.00	0.23	0.70	2.82	0.00	0.00	1.29	0.00
M3-6-control	2022-06-08	0.35	0.00	0.00	0.00	0.00	0.59	5.07	0.00	0.12	1.89	0.00
M3-6-control	2022-06-09	0.47	0.00	0.83	0.00	0.12	0.00	6.14	0.00	0.00	0.71	0.00
M3-6-control	2022-06-10	1.06	0.00	0.47	0.00	0.24	0.83	1.30	0.00	0.00	1.18	0.00
M3-6-control	2022-06-11	1.07	0.00	0.47	0.00	0.24	0.24	1.07	0.00	0.00	0.71	0.00
M3-6-control	2022-06-12	2.14	0.00	0.71	0.00	0.83	0.24	2.26	0.00	0.12	0.71	0.00
M3-6-control	2022-06-13	0.36	0.00	0.24	0.00	0.12	1.43	4.51	0.00	0.00	1.43	0.00
M3-6-control	2022-06-14	0.48	0.00	0.00	0.00	0.12	0.60	1.67	0.00	0.00	0.83	0.00
M3-6-control	2022-06-15	0.48	0.00	0.12	0.00	0.12	0.12	5.24	0.00	0.00	0.12	0.00
M3-6-control	2022-06-16	0.95	0.00	0.36	0.00	0.00	0.24	1.91	0.00	0.00	0.48	0.00
M3-6-control	2022-06-17	0.48	0.00	0.36	0.00	0.12	0.00	0.95	0.00	0.12	0.00	0.00
M3-6-control	2022-06-18	0.36	0.00	0.48	0.00	0.12	0.24	2.15	0.00	0.12	0.84	0.00
M3-6-control	2022-06-19	0.24	0.00	0.00	0.00	0.12	0.36	4.42	0.00	0.00	0.84	0.00
M3-6-control	2022-06-20	0.36	0.00	0.36	0.00	0.12	1.55	1.31	0.00	0.00	1.19	0.00
M3-6-control	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-05	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-06	0.41	0.00	0.00	0.00	0.10	0.00	0.20	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M5-1	2022-05-07	0.20	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00
M5-1	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-10	0.10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.10	0.00
M5-1	2022-05-11	0.10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-13	0.00	0.00	0.11	0.00	0.11	0.74	0.21	0.00	0.00	0.21	0.00
M5-1	2022-05-14	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-16	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.11	0.00
M5-1	2022-05-17	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.11	0.00
M5-1	2022-05-18	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.11	0.00
M5-1	2022-05-19	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-21	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-22	0.00	0.00	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.22	0.00
M5-1	2022-05-23	0.00	0.00	0.33	0.00	0.22	0.00	0.33	0.00	0.11	0.00	0.00
M5-1	2022-05-24	0.11	0.00	0.00	0.00	0.78	0.00	0.11	0.00	0.00	0.00	0.00
M5-1	2022-05-25	0.00	0.00	0.56	0.00	0.45	0.11	0.90	0.00	0.11	0.11	0.00
M5-1	2022-05-26	0.23	0.00	0.56	0.00	0.23	0.00	1.01	0.00	0.00	0.23	0.00
M5-1	2022-05-27	0.11	0.00	0.11	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
M5-1	2022-05-28	0.11	0.00	0.45	0.00	0.34	1.02	0.00	0.00	0.00	0.34	0.00
M5-1	2022-05-29	0.00	0.00	0.00	0.00	0.11	0.11	0.46	0.00	0.11	0.11	0.00
M5-1	2022-05-30	0.11	0.00	0.11	0.00	0.11	0.00	0.23	0.00	0.00	0.00	0.00
M6-1	2022-05-04	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-05	0.20	0.00	0.30	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-06	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-07	0.10	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.10	0.00
M6-1	2022-05-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-10	0.00	0.00	0.00	0.00	0.10	0.42	0.21	0.00	0.00	0.42	0.00
M6-1	2022-05-11	0.00	0.00	0.00	0.00	0.21	0.10	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-13	0.11	0.00	0.42	0.00	0.21	1.69	0.32	0.00	0.00	0.74	0.00
M6-1	2022-05-14	0.21	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-15	0.00	0.00	0.53	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-16	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-17	0.32	0.00	0.22	0.00	0.86	0.65	0.22	0.00	0.00	0.43	0.00
M6-1	2022-05-18	0.00	0.00	0.11	0.00	0.76	0.00	0.11	0.00	0.00	0.11	0.00
M6-1	2022-05-19	0.33	0.00	0.33	0.00	0.55	0.11	0.00	0.00	0.00	0.11	0.00
M6-1	2022-05-20	0.11	0.00	0.77	0.00	2.63	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2022-05-21	0.11	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.44	0.00
M6-1	2022-05-22	0.44	0.00	0.22	0.00	0.66	0.00	0.44	0.00	0.00	0.22	0.00
M6-1	2022-05-23	0.11	0.00	0.33	0.00	0.78	0.00	0.44	0.00	0.00	0.11	0.00
M6-1	2022-05-24	0.11	0.00	0.22	0.00	1.12	0.11	0.11	0.00	0.00	0.00	0.00
M6-1	2022-05-25	0.79	0.00	0.45	0.00	1.01	0.00	2.80	0.00	0.11	0.00	0.00
M6-1	2022-05-26	0.56	0.00	0.56	0.00	0.68	0.00	19.36	0.00	0.00	2.48	0.00
M6-1	2022-05-27	0.45	0.00	0.34	0.00	1.02	0.00	0.00	0.00	0.00	0.11	0.00
M6-1	2022-05-28	0.68	0.00	0.68	0.00	0.57	0.00	0.80	0.00	0.00	0.23	0.00
M6-1	2022-05-29	0.46	0.00	0.80	0.00	1.14	0.00	0.23	0.00	0.00	0.57	0.00
M6-1	2022-05-30	0.00	0.00	0.11	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2022-05-04	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2022-05-05	0.71	0.00	0.30	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2022-05-06	0.51	0.00	0.00	0.00	0.82	0.00	0.10	0.00	0.00	0.00	0.00
M6-2	2022-05-07	0.10	0.00	0.10	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
M6-2	2022-05-08	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2022-05-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2022-05-10	0.21	0.00	0.00	0.00	0.00	1.04	0.10	0.00	0.00	0.31	0.00
M6-2	2022-05-11	0.31	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
M6-2	2022-05-12	0.11	0.00	0.11	0.00	0.00	0.11	0.00	0.00	0.00	0.11	0.00
M6-2	2022-05-13	0.11	0.00	0.42	0.00	0.32	5.94	0.53	0.00	0.00	2.01	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M6-2	2022-05-14	0.21	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.11	0.00
M6-2	2022-05-15	0.21	0.00	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2022-05-16	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2022-05-17	0.97	0.00	0.43	0.00	0.43	6.61	0.87	0.00	0.00	3.68	0.00
M6-2	2022-05-18	0.43	0.00	0.11	0.00	0.54	0.33	0.11	0.00	0.00	0.00	0.00
M6-2	2022-05-19	1.09	0.00	0.33	0.00	0.76	0.00	0.11	0.00	0.00	0.11	0.00
M6-2	2022-05-20	1.32	0.00	1.65	0.00	3.85	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2022-05-21	0.44	0.00	0.11	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2022-05-22	2.00	0.00	0.33	0.00	2.55	0.11	1.11	0.00	0.00	0.11	0.00
M6-2	2022-05-23	0.00	0.00	0.22	0.00	1.11	0.00	0.89	0.00	0.00	0.00	0.00
M6-2	2022-05-24	1.23	0.00	0.45	0.00	0.34	0.22	0.22	0.00	0.11	0.11	0.00
M6-2	2022-05-25	2.25	0.00	0.90	0.00	1.35	0.11	4.49	0.00	0.00	0.11	0.00
M6-2	2022-05-26	1.02	0.00	0.68	0.00	1.36	0.11	38.76	0.00	0.00	0.68	0.00
M6-2	2022-05-27	1.81	0.00	0.45	0.00	2.26	0.00	0.23	0.00	0.00	0.00	0.00
M6-2	2022-05-28	0.68	0.00	1.02	0.00	0.68	0.23	1.36	0.00	0.00	0.23	0.00
M6-2	2022-05-29	1.49	0.00	0.91	0.00	2.51	0.34	1.03	0.00	0.00	0.23	0.00
M6-2	2022-05-30	0.34	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.11	0.00	0.00
A1	2022-06-08	0.00	0.00	0.35	0.00	0.00	0.24	1.06	0.00	0.00	0.24	0.00
A1	2022-06-09	0.00	0.00	0.12	0.00	0.00	0.83	0.12	0.00	0.00	0.00	0.00
A1	2022-06-10	0.00	0.00	0.00	0.00	0.00	1.30	1.77	0.00	0.00	0.00	0.00
A1	2022-06-11	0.00	0.00	0.24	0.00	0.24	0.47	2.37	0.00	0.00	0.00	0.00
A1	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.59	6.53	0.00	0.00	0.48	0.00
A1	2022-06-13	0.00	0.00	0.24	0.00	0.00	0.83	1.78	0.00	0.12	0.24	0.00
A1	2022-06-14	0.00	0.00	0.24	0.00	0.24	2.98	17.98	0.00	0.12	1.31	0.00
A1	2022-06-15	0.00	0.00	0.00	0.00	0.00	1.43	9.29	0.00	0.00	1.19	0.00
A1	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.12	0.00
A1	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.72	3.82	0.00	0.00	0.00	0.00
A1	2022-06-18	0.00	0.00	0.12	0.00	0.12	1.55	2.99	0.00	0.00	0.84	0.00
A1	2022-06-19	0.24	0.00	0.12	0.00	0.00	2.63	16.49	0.00	0.00	0.96	0.00
A1	2022-06-20	0.00	0.00	0.00	0.00	0.00	1.67	6.10	0.00	0.00	1.20	0.00
A1	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
A1	2022-06-22	0.00	0.00	0.36	0.00	0.24	1.79	4.42	0.00	0.00	1.08	0.00
A1	2022-06-23	0.12	0.00	0.48	0.00	0.48	0.96	3.35	0.00	0.00	0.24	0.00
A1	2022-06-24	0.00	0.00	0.24	0.00	0.12	1.43	4.77	0.00	0.00	0.48	0.00
A1	2022-06-25	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.36	0.00
A1	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.24	0.12	0.00	0.00	0.00	0.00
A1	2022-06-27	0.00	0.00	0.00	0.00	0.00	1.55	2.02	0.00	0.00	1.43	0.00
A1	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.71	2.49	0.00	0.00	0.36	0.00
A1	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.71	0.95	0.00	0.00	0.24	0.00
A1	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A1	2022-07-01	0.00	0.00	0.12	0.00	0.12	1.42	1.06	0.00	0.00	0.12	0.00
A1	2022-07-02	0.00	0.00	0.00	0.00	0.12	1.65	5.91	0.00	0.00	0.47	0.00
A4	2022-06-07	0.00	0.00	0.12	0.00	0.00	0.12	0.12	0.00	0.00	0.12	0.00
A4	2022-06-08	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
A4	2022-06-09	0.00	0.00	0.12	0.00	0.12	0.24	0.24	0.00	0.00	0.00	0.00
A4	2022-06-10	0.00	0.00	0.00	0.00	0.00	0.24	0.71	0.00	0.00	0.00	0.00
A4	2022-06-11	0.00	0.00	0.00	0.00	0.00	0.59	0.83	0.00	0.00	0.24	0.00
A4	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.24	0.95	0.00	0.00	0.24	0.00
A4	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.48	4.04	0.00	0.00	0.48	0.00
A4	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.12	3.69	0.00	0.00	0.36	0.00
A4	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.12	0.71	0.00	0.00	0.60	0.00
A4	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
A4	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.24	0.72	0.00	0.00	0.00	0.00
A4	2022-06-18	0.00	0.00	0.00	0.00	0.12	0.24	2.75	0.00	0.00	0.60	0.00
A4	2022-06-19	0.00	0.00	0.00	0.00	0.00	0.72	11.00	0.00	0.12	0.72	0.00
A4	2022-06-20	0.00	0.00	0.00	0.00	0.00	0.36	9.44	0.00	0.00	0.96	0.00
A4	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
A4	2022-06-22	0.00	0.00	0.00	0.00	0.00	0.60	3.71	0.00	0.00	0.48	0.00
A4	2022-06-23	0.00	0.00	0.12	0.00	0.12	0.36	2.27	0.00	0.00	0.36	0.00
A4	2022-06-24	0.00	0.00	0.00	0.00	0.00	0.36	0.95	0.00	0.00	0.12	0.00
A4	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A4	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-06-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-08-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-08-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A4	2022-08-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	2022-06-07	0.00	0.00	0.00	0.00	0.00	0.82	0.94	0.00	0.00	0.12	0.00
A5	2022-06-08	0.00	0.00	0.00	0.00	0.00	1.41	1.06	0.00	0.00	0.24	0.00
A5	2022-06-09	0.00	0.00	0.12	0.00	0.12	10.16	1.18	0.00	0.00	0.71	0.00
A5	2022-06-10	0.00	0.00	0.12	0.00	0.00	0.35	0.59	0.00	0.00	0.59	0.00
A5	2022-06-11	0.00	0.00	0.00	0.00	0.00	3.44	0.59	0.00	0.00	0.47	0.00
A5	2022-06-12	0.00	0.00	0.00	0.00	0.00	1.31	0.24	0.00	0.00	0.00	0.00
A5	2022-06-13	0.00	0.00	0.00	0.00	1.07	4.04	2.14	0.00	0.00	0.83	0.00
A5	2022-06-14	0.00	0.00	0.36	0.00	0.71	5.83	0.95	0.00	0.00	0.60	0.00
A5	2022-06-15	0.00	0.00	0.00	0.00	0.12	1.90	0.00	0.00	0.00	0.48	0.00
A5	2022-06-16	0.00	0.00	0.00	0.00	0.00	4.77	0.95	0.00	0.00	0.48	0.00
A5	2022-06-17	0.00	0.00	0.12	0.00	0.00	0.60	0.24	0.00	0.00	0.72	0.00
A5	2022-06-18	0.24	0.00	0.84	0.00	0.84	2.15	2.75	0.00	0.12	0.48	0.00
A5	2022-06-19	0.00	0.00	0.00	0.00	0.24	2.75	2.75	0.00	0.00	1.43	0.00
A5	2022-06-20	0.12	0.00	0.36	0.00	2.03	1.20	0.84	0.00	0.00	0.96	0.00
A5	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00
A5	2022-06-22	0.00	0.00	0.12	0.00	0.00	1.20	0.60	0.00	0.00	0.12	0.00
A5	2022-06-23	0.24	0.00	0.36	0.00	0.84	0.96	1.91	0.00	0.00	0.12	0.00
A5	2022-06-24	0.12	0.00	0.00	0.00	0.24	0.72	0.60	0.00	0.00	0.12	0.00
A5	2022-06-25	0.12	0.00	0.60	0.00	0.95	4.17	0.24	0.00	0.00	0.24	0.00
A5	2022-06-26	0.00	0.00	0.12	0.00	0.00	0.83	0.00	0.00	0.00	0.12	0.00
A5	2022-06-27	0.00	0.00	0.95	0.00	0.83	2.38	2.74	0.00	0.00	0.12	0.00
A5	2022-06-28	0.00	0.00	0.00	0.00	0.00	11.05	0.00	0.00	0.00	0.71	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A5	2022-06-29	0.00	0.00	0.00	0.00	0.12	2.61	0.24	0.00	0.00	0.12	0.00
A5	2022-06-30	0.12	0.00	0.24	0.00	0.95	0.71	0.24	0.00	0.00	0.36	0.00
A5	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.24	0.00
A5	2022-07-02	0.00	0.00	0.00	0.00	0.12	8.15	0.71	0.00	0.00	0.94	0.00
A5	2022-07-03	0.00	0.00	0.00	0.00	0.00	5.88	1.29	0.00	0.00	0.47	0.00
A5	2022-07-04	0.00	0.00	0.00	0.00	0.12	1.76	0.82	0.00	0.00	0.00	0.00
A5	2022-07-05	0.00	0.00	0.00	0.00	0.12	0.58	0.35	0.00	0.00	0.58	0.00
A5	2022-07-06	0.00	0.00	0.00	0.00	0.00	3.27	0.23	0.00	0.00	0.23	0.00
A5	2022-07-07	0.00	0.00	0.00	0.00	0.12	1.05	0.23	0.00	0.00	0.58	0.00
A5	2022-07-08	0.00	0.00	0.12	0.00	0.12	11.00	0.58	0.00	0.00	0.81	0.00
A5	2022-07-09	0.00	0.00	0.46	0.00	0.12	9.36	1.62	0.00	0.00	0.92	0.00
A5	2022-07-10	0.00	0.00	0.00	0.00	0.00	1.84	0.46	0.00	0.00	0.23	0.00
A5	2022-07-11	0.23	0.00	0.11	0.00	0.46	1.03	4.93	0.00	0.00	1.03	0.00
A5	2022-07-12	0.00	0.00	0.00	0.00	0.00	3.89	0.23	0.00	0.00	0.34	0.00
A5	2022-07-13	0.00	0.00	1.82	0.00	0.91	4.90	1.14	0.00	0.00	0.34	0.00
A5	2022-07-14	0.23	0.00	0.23	0.00	0.79	2.84	0.91	0.00	0.00	0.23	0.00
A5	2022-07-15	0.11	0.00	0.11	0.00	0.68	3.06	1.81	0.00	0.00	0.57	0.00
A5	2022-07-16	0.00	0.00	0.23	0.00	0.23	5.97	1.80	0.00	0.00	0.79	0.00
A5	2022-07-17	0.00	0.00	0.11	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00
A5	2022-07-18	0.00	0.00	0.22	0.00	0.45	0.89	0.22	0.00	0.00	0.11	0.00
A5	2022-07-19	0.11	0.00	0.33	0.00	0.67	0.44	2.44	0.00	0.00	0.11	0.00
A5	2022-07-20	0.22	0.00	0.66	0.00	1.22	1.44	2.43	0.00	0.00	0.77	0.00
A5	2022-07-21	0.00	0.00	0.11	0.00	0.11	0.11	0.00	0.00	0.00	0.00	0.00
A5	2022-07-22	0.00	0.00	0.33	0.00	0.44	0.11	3.39	0.00	0.00	0.22	0.00
A5	2022-07-23	0.11	0.00	0.11	0.00	1.74	0.76	2.83	0.00	0.00	0.76	0.00
A5	2022-07-24	0.00	0.00	0.00	0.00	0.11	0.43	3.47	0.00	0.00	0.54	0.00
A5	2022-07-25	0.00	0.00	0.22	0.00	0.43	0.75	0.54	0.00	0.00	0.00	0.00
A5	2022-07-26	0.00	0.00	0.75	0.00	1.40	0.54	0.00	0.00	0.00	0.11	0.00
A5	2022-07-27	0.11	0.00	0.21	0.00	0.43	0.00	2.67	0.00	0.00	0.32	0.00
A5	2022-07-28	0.21	0.00	0.00	0.00	1.06	0.00	0.96	0.00	0.00	0.11	0.00
A5	2022-07-29	0.11	0.00	0.53	0.11	1.16	1.16	1.38	0.00	0.00	0.21	0.00
A5	2022-07-30	0.32	0.00	1.05	0.00	0.42	0.63	1.47	0.00	0.00	0.21	0.00
A5	2022-07-31	0.29	0.00	0.58	0.00	0.86	0.29	2.02	0.00	0.00	0.29	0.00
A7	2022-07-08	0.00	0.00	0.12	0.00	0.12	0.12	4.86	0.00	0.00	0.93	0.00
A7	2022-07-09	0.12	0.00	0.12	0.00	0.23	3.93	4.74	0.00	0.00	1.39	0.00
A7	2022-07-10	0.00	0.00	0.00	0.00	0.12	0.46	0.23	0.00	0.00	0.12	0.00
A7	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.11	0.23	0.00	0.00	0.23	0.00
A7	2022-07-12	0.11	0.00	0.23	0.00	0.34	0.34	1.37	0.00	0.00	0.34	0.00
A7	2022-07-13	0.00	0.00	0.11	0.00	0.11	2.05	3.64	0.00	0.00	0.57	0.00
A7	2022-07-14	0.00	0.00	0.23	0.00	0.23	1.81	3.86	0.00	0.00	1.13	0.00
A7	2022-07-15	0.00	0.00	0.45	0.00	0.45	1.25	6.34	0.00	0.00	1.02	0.00
A7	2022-07-16	0.00	0.00	0.45	0.00	1.13	0.79	1.91	0.00	0.00	0.79	0.00
A7	2022-07-17	0.22	0.00	0.11	0.00	0.34	0.45	0.90	0.00	0.00	0.78	0.00
A7	2022-07-18	0.00	0.00	0.33	0.00	0.67	1.23	1.90	0.00	0.00	1.45	0.00
A7	2022-07-19	0.00	0.00	0.56	0.00	0.33	1.78	6.11	0.00	0.00	1.33	0.00
A7	2022-07-20	0.00	0.00	0.55	0.00	0.66	1.33	4.86	0.00	0.00	1.10	0.00
A7	2022-07-21	0.00	0.00	0.00	0.00	0.11	0.22	0.33	0.00	0.00	0.00	0.00
A7	2022-07-22	0.00	0.00	0.66	0.00	0.66	0.33	2.19	0.00	0.00	0.22	0.00
A7	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
A7	2022-07-24	0.00	0.00	0.65	0.00	0.22	0.43	0.87	0.00	0.00	0.22	0.00
A7	2022-07-25	0.11	0.00	0.00	0.00	0.54	0.75	7.54	0.00	0.11	0.54	0.00
A7	2022-07-26	0.00	0.00	0.32	0.00	0.54	0.64	3.86	0.00	0.00	0.54	0.00
A7	2022-07-27	0.00	0.00	0.43	0.11	0.53	0.43	2.78	0.00	0.00	0.96	0.00
A7	2022-07-28	0.00	0.00	0.21	0.00	0.32	0.21	1.49	0.00	0.00	0.21	0.00
A7	2022-07-29	0.00	0.00	0.21	0.11	0.32	0.85	4.97	0.00	0.11	0.74	0.00
A7	2022-07-30	0.00	0.00	0.32	0.00	0.11	0.63	1.79	0.00	0.00	0.42	0.00
A7	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
A7	2022-08-01	0.00	0.00	0.94	0.10	0.62	0.62	3.95	0.00	0.00	0.73	0.00
A7	2022-08-02	0.00	0.00	0.00	0.00	0.00	0.10	1.14	0.00	0.00	0.21	0.00
A7	2022-08-03	0.10	0.00	1.13	0.21	0.51	0.31	2.57	0.00	0.00	0.62	0.00
A7	2022-08-04	0.00	0.00	0.41	0.10	0.20	2.35	10.03	0.00	0.00	2.56	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A7	2022-08-05	0.10	0.00	0.20	0.10	0.51	0.20	1.53	0.00	0.00	0.20	0.00
A7	2022-08-06	0.00	0.00	0.51	0.20	0.51	0.20	2.12	0.00	0.00	0.61	0.00
A7	2022-08-07	0.00	0.00	0.70	0.20	0.50	0.30	2.71	0.00	0.10	0.70	0.00
A7	2022-08-08	0.10	0.00	0.40	0.10	0.40	0.40	2.70	0.00	0.00	0.70	0.00
A7	2022-08-09	0.00	0.00	0.20	0.30	0.10	1.49	4.68	0.00	0.20	0.99	0.00
A7	2022-08-10	0.10	0.00	0.10	0.10	0.30	0.69	4.25	0.00	0.00	1.09	0.00
A7	2022-08-11	0.10	0.00	0.00	0.20	0.39	1.28	4.62	0.00	0.10	1.38	0.00
A7	2022-08-12	0.00	0.00	0.20	0.00	0.68	0.68	9.77	0.00	0.00	1.07	0.00
A7	2022-08-13	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.10	0.10	0.00
A7	2022-08-14	0.00	0.00	0.39	0.00	0.48	1.16	6.09	0.00	0.00	1.26	0.00
A7	2022-08-15	0.00	0.00	0.19	0.00	0.10	2.21	17.09	0.00	0.19	3.46	0.00
A7	2022-08-16	0.00	0.00	0.57	0.38	1.62	1.53	6.40	0.00	0.00	1.62	0.00
A7	2022-08-17	0.00	0.00	0.28	0.28	0.95	1.33	5.13	0.00	0.00	1.33	0.00
A7	2022-08-18	0.00	0.00	0.38	0.00	0.38	1.80	4.63	0.00	0.09	1.04	0.00
A9	2022-06-04	0.00	0.00	0.35	0.00	0.23	0.47	0.12	0.00	0.00	0.12	0.00
A9	2022-06-05	0.00	0.00	0.35	0.00	0.00	2.34	1.05	0.00	0.00	1.52	0.00
A9	2022-06-06	0.00	0.00	0.00	0.00	0.35	2.35	0.70	0.00	0.12	0.59	0.00
A9	2022-06-07	0.00	0.00	0.00	0.00	0.00	12.47	1.18	0.00	0.00	3.65	0.00
A9	2022-06-08	0.12	0.00	0.00	0.00	0.35	11.34	2.95	0.00	0.12	3.90	0.00
A9	2022-06-09	0.00	0.00	0.12	0.00	0.12	52.44	3.54	0.00	0.00	11.57	0.00
A9	2022-06-10	0.00	0.00	0.00	0.00	0.24	7.22	3.08	0.00	0.00	1.78	0.00
A9	2022-06-11	0.00	0.00	0.00	0.00	0.48	28.87	2.85	0.00	0.00	5.47	0.00
A9	2022-06-12	0.00	0.00	0.00	0.00	0.00	24.71	3.33	0.00	0.12	7.13	0.00
A9	2022-06-13	0.00	0.00	0.00	0.00	0.00	5.83	5.71	0.00	0.00	2.62	0.00
A9	2022-06-14	0.00	0.00	0.36	0.00	0.12	7.16	5.37	0.00	0.00	1.55	0.00
A9	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.95	1.55	0.00	0.00	0.36	0.00
A9	2022-06-16	0.00	0.00	0.00	0.00	0.00	1.20	0.36	0.00	0.00	1.91	0.00
A9	2022-06-17	0.00	0.00	0.00	0.00	0.12	34.66	1.55	0.00	0.00	10.88	0.00
A9	2022-06-18	0.00	0.00	0.00	0.00	0.24	16.61	6.81	0.00	0.12	5.62	0.00
A9	2022-06-19	0.00	0.00	0.00	0.00	0.12	13.65	5.15	0.00	0.00	3.95	0.00
A9	2022-06-20	0.00	0.00	0.00	0.00	0.00	18.32	1.56	0.00	0.00	6.35	0.00
A9	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.12	0.48	0.00
A9	2022-06-22	0.00	0.00	0.00	0.00	0.12	18.05	4.30	0.00	0.00	3.59	0.00
A9	2022-06-23	0.00	0.00	0.12	0.00	0.00	1.79	5.26	0.00	0.00	2.03	0.00
A9	2022-06-24	0.00	0.00	0.12	0.00	0.00	10.06	28.86	0.00	0.48	5.15	0.00
A9	2022-06-25	0.00	0.00	0.00	0.00	0.00	5.26	1.67	0.00	0.00	1.67	0.00
A9	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.36	0.12	0.00	0.00	0.48	0.00
A9	2022-06-27	0.00	0.00	0.12	0.00	0.00	30.83	3.93	0.00	0.00	7.50	0.00
A9	2022-06-28	0.00	0.00	0.00	0.00	0.12	9.05	3.45	0.00	0.00	2.38	0.00
A9	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.83	2.14	0.00	0.00	1.43	0.00
A9	2022-06-30	0.00	0.00	0.00	0.00	0.00	2.85	2.02	0.00	0.00	1.19	0.00
A9	2022-07-01	0.00	0.00	0.00	0.00	0.00	4.74	1.07	0.00	0.00	4.03	0.00
A9	2022-07-02	0.00	0.00	0.12	0.00	0.00	22.68	1.06	0.00	0.00	5.20	0.00
A9	2022-07-03	0.00	0.00	0.12	0.00	0.24	4.36	2.59	0.00	0.00	0.83	0.00
A9	2022-07-04	0.00	0.00	0.12	0.00	0.12	15.26	3.29	0.00	0.00	6.22	0.00
A10	2022-06-05	0.12	0.00	0.00	0.00	0.12	0.58	0.35	0.00	0.00	0.12	0.00
A10	2022-06-06	0.00	0.00	0.00	0.00	0.00	0.23	0.59	0.00	0.00	0.00	0.00
A10	2022-06-07	0.12	0.00	0.00	0.00	0.23	0.35	0.23	0.00	0.00	0.00	0.00
A10	2022-06-08	0.00	0.00	0.12	0.00	0.00	0.47	0.59	0.00	0.00	0.00	0.00
A10	2022-06-09	0.00	0.00	0.24	0.00	0.00	3.66	1.54	0.00	0.00	0.47	0.00
A10	2022-06-10	0.00	0.00	0.00	0.00	0.00	1.30	2.36	0.00	0.00	0.24	0.00
A10	2022-06-11	0.00	0.00	0.00	0.00	0.00	0.59	0.36	0.00	0.00	0.00	0.00
A10	2022-06-12	0.00	0.00	0.12	0.00	0.12	1.19	0.83	0.00	0.00	0.12	0.00
A10	2022-06-13	0.12	0.00	0.00	0.00	0.00	1.07	1.19	0.00	0.00	0.12	0.00
A10	2022-06-14	0.12	0.00	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.12	0.00
A10	2022-06-15	0.00	0.00	0.12	0.00	0.00	1.07	1.07	0.00	0.00	0.24	0.00
A10	2022-06-16	0.00	0.00	0.12	0.00	0.00	2.15	1.55	0.00	0.36	0.83	0.00
A10	2022-06-17	0.00	0.00	0.00	0.00	0.00	1.07	0.48	0.00	0.00	0.12	0.00
A10	2022-06-18	0.00	0.00	0.12	0.00	0.00	0.12	1.55	0.00	0.00	0.12	0.00
A10	2022-06-19	0.12	0.00	0.00	0.00	0.12	1.43	7.29	0.00	0.00	0.12	0.00
A10	2022-06-20	0.00	0.00	0.00	0.00	0.00	1.55	3.94	0.00	0.12	0.72	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A10	2022-06-21	0.00	0.00	0.36	0.00	0.00	0.60	0.84	0.00	0.00	0.12	0.00
A10	2022-06-22	0.00	0.00	0.00	0.00	0.00	0.72	1.31	0.00	0.00	0.00	0.00
A10	2022-06-23	0.12	0.00	0.24	0.00	0.36	0.72	4.78	0.00	0.00	0.60	0.00
A10	2022-06-24	0.00	0.00	0.00	0.00	0.00	1.43	0.60	0.00	0.00	0.36	0.00
A10	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.60	0.72	0.00	0.12	0.12	0.00
A10	2022-06-26	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.00	0.24	0.00
A10	2022-06-27	0.12	0.00	0.00	0.00	0.12	2.98	5.71	0.00	0.00	1.67	0.00
A10	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.48	0.83	0.00	0.00	0.24	0.00
A10	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.47	1.42	0.00	0.00	0.00	0.00
A10	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.00	0.00
A10	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.47	0.24	0.00	0.00	0.12	0.00
A10	2022-07-02	0.00	0.00	0.00	0.00	0.00	1.06	0.35	0.00	0.00	0.00	0.00
A10	2022-07-03	0.00	0.00	0.00	0.00	0.12	1.18	1.53	0.00	0.00	0.24	0.00
A10	2022-07-04	0.00	0.00	0.12	0.00	0.00	1.29	3.40	0.00	0.00	0.23	0.00
A10	2022-07-05	0.00	0.00	0.35	0.00	0.00	0.23	1.52	0.00	0.00	0.12	0.00
A10	2022-07-06	0.00	0.00	0.00	0.00	0.00	2.22	0.82	0.00	0.00	0.82	0.00
A10	2022-07-07	0.00	0.00	0.23	0.00	0.12	1.16	0.35	0.00	0.00	0.12	0.00
A10	2022-07-08	0.00	0.00	0.81	0.00	0.35	1.39	3.01	0.00	0.12	0.46	0.00
A10	2022-07-09	0.12	0.00	0.23	0.00	0.00	2.08	1.62	0.00	0.00	0.23	0.00
A10	2022-07-10	0.00	0.00	0.58	0.00	0.23	1.96	2.99	0.00	0.00	0.69	0.00
A10	2022-07-11	0.00	0.00	0.00	0.00	0.11	2.18	2.41	0.00	0.11	0.23	0.00
A10	2022-07-12	0.00	0.00	0.00	0.00	0.00	0.34	0.80	0.00	0.00	0.23	0.00
A10	2022-07-13	0.00	0.00	0.23	0.00	0.11	1.48	0.68	0.00	0.00	0.11	0.00
A10	2022-07-14	0.00	0.00	0.34	0.00	0.68	0.57	2.38	0.00	0.00	0.11	0.00
A10	2022-07-15	0.00	0.00	0.11	0.00	0.23	0.57	2.60	0.00	0.00	0.34	0.00
A10	2022-07-16	0.00	0.00	0.34	0.00	0.23	1.35	1.13	0.00	0.00	0.45	0.00
A10	2022-07-17	0.00	0.00	0.11	0.00	0.11	2.01	1.46	0.00	0.00	0.78	0.00
A10	2022-07-18	0.00	0.00	0.67	0.00	0.22	0.11	0.22	0.00	0.00	0.00	0.00
A10	2022-07-19	0.00	0.00	0.67	0.00	0.67	1.56	4.67	0.00	0.00	0.67	0.00
A10	2022-07-20	0.22	0.00	0.11	0.00	0.11	1.33	1.77	0.00	0.00	0.11	0.00
A10	2022-07-21	0.00	0.00	0.22	0.00	0.00	0.22	0.66	0.00	0.00	0.22	0.00
A10	2022-07-22	0.44	0.00	0.11	0.00	0.11	0.88	3.50	0.00	0.00	0.55	0.00
A10	2022-07-23	0.00	0.00	0.00	0.00	0.00	1.85	3.38	0.00	0.00	0.54	0.00
A10	2022-07-24	0.00	0.00	0.11	0.00	0.00	1.41	3.69	0.00	0.00	0.33	0.00
A10	2022-07-25	0.00	0.00	0.00	0.11	0.11	0.32	0.32	0.00	0.00	0.00	0.00
A10	2022-07-26	0.00	0.00	0.00	0.21	0.00	0.32	0.32	0.00	0.00	0.11	0.00
A10	2022-07-27	0.00	0.00	0.11	0.11	0.00	0.00	3.74	0.00	0.00	0.96	0.00
A10	2022-07-28	0.00	0.00	0.11	0.00	0.11	1.06	3.72	0.00	0.11	0.42	0.00
A10	2022-07-29	0.00	0.00	0.44	0.15	0.00	0.15	2.07	0.00	0.00	0.15	0.00
A11	2022-06-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A11	2022-06-06	0.00	0.00	0.12	0.00	0.58	0.35	0.58	0.00	0.00	0.12	0.00
A11	2022-06-07	0.23	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.12	0.00
A11	2022-06-08	0.00	0.00	0.12	0.00	0.00	0.35	0.71	0.00	0.12	0.00	0.00
A11	2022-06-09	0.00	0.00	0.00	0.00	0.00	0.59	1.06	0.00	0.00	0.12	0.00
A11	2022-06-10	0.00	0.00	0.35	0.00	0.00	1.18	0.59	0.00	0.00	0.24	0.00
A11	2022-06-11	0.12	0.00	0.12	0.00	0.24	0.83	0.59	0.00	0.00	0.35	0.00
A11	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.12	0.00
A11	2022-06-13	0.00	0.00	0.00	0.00	0.24	0.71	0.83	0.00	0.00	0.00	0.00
A11	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.36	0.24	0.00	0.00	0.12	0.00
A11	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.60	1.19	0.00	0.00	0.36	0.00
A11	2022-06-16	0.00	0.00	0.00	0.00	0.12	0.60	0.71	0.00	0.00	0.60	0.00
A11	2022-06-17	0.00	0.00	0.12	0.00	0.12	0.60	1.67	0.00	0.00	0.12	0.00
A11	2022-06-18	0.00	0.00	0.24	0.00	0.00	1.31	19.56	0.00	0.00	1.91	0.00
A11	2022-06-19	0.00	0.00	0.00	0.00	0.24	0.00	10.50	0.00	0.00	0.48	0.00
A11	2022-06-20	0.00	0.00	0.00	0.00	0.00	0.48	9.54	0.00	0.00	1.19	0.00
A11	2022-06-21	0.00	0.00	0.00	0.00	0.12	0.24	0.12	0.00	0.00	0.12	0.00
A11	2022-06-22	0.00	0.00	0.00	0.00	0.12	0.48	7.75	0.00	0.00	0.72	0.00
A11	2022-06-23	0.00	0.00	0.12	0.00	0.12	0.48	4.06	0.00	0.00	1.31	0.00
A11	2022-06-24	0.00	0.00	0.00	0.00	0.00	0.48	1.07	0.00	0.00	0.24	0.00
A11	2022-06-25	0.00	0.00	0.12	0.00	0.00	1.55	1.67	0.00	0.00	0.71	0.00
A11	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A11	2022-06-27	0.00	0.00	0.24	0.00	0.00	1.19	6.89	0.00	0.00	2.49	0.00
A11	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.59	0.36	0.00	0.00	0.24	0.00
A11	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.00	0.00	0.12	0.00
A11	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
A11	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.24	0.00
A11	2022-07-02	0.00	0.00	0.12	0.00	0.12	0.83	1.77	0.00	0.00	0.47	0.00
A11	2022-07-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A12	2022-06-10	0.00	0.00	0.12	0.00	0.12	0.12	1.30	0.00	0.00	0.12	0.00
A12	2022-06-11	0.12	0.00	0.24	0.00	0.24	0.00	0.83	0.00	0.00	0.00	0.00
A12	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.59	3.45	0.00	0.12	0.24	0.00
A12	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.12	2.38	0.00	0.00	0.59	0.00
A12	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.12	0.95	0.00	0.00	0.00	0.00
A12	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
A12	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
A12	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.12	1.91	0.00	0.00	0.00	0.00
A12	2022-06-18	0.00	0.00	0.00	0.00	0.00	0.36	3.82	0.00	0.00	0.00	0.00
A12	2022-06-19	0.00	0.00	0.00	0.00	0.00	0.24	4.30	0.00	0.00	0.12	0.00
A12	2022-06-20	0.00	0.00	0.00	0.00	0.00	0.60	2.87	0.00	0.00	0.24	0.00
A12	2022-06-21	0.00	0.00	0.00	0.00	0.12	0.00	0.60	0.00	0.00	0.12	0.00
A12	2022-06-22	0.00	0.00	0.12	0.00	0.36	0.60	4.42	0.00	0.24	0.24	0.00
A12	2022-06-23	0.00	0.00	0.00	0.00	0.00	0.96	5.50	0.00	0.24	0.36	0.00
A12	2022-06-24	0.00	0.00	0.12	0.00	0.12	0.60	2.27	0.00	0.00	0.36	0.00
A12	2022-06-25	0.00	0.00	0.12	0.00	0.00	0.24	4.77	0.00	0.00	0.24	0.00
A12	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
A12	2022-06-27	0.00	0.00	0.12	0.00	0.12	0.71	4.88	0.00	0.12	0.83	0.00
A12	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.12	0.71	0.00	0.00	0.00	0.00
A12	2022-06-29	0.00	0.00	0.00	0.00	0.00	1.19	3.44	0.00	0.00	0.36	0.00
A12	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A12	2022-07-01	0.00	0.00	0.00	0.00	0.12	0.12	0.47	0.00	0.00	0.00	0.00
A12	2022-07-02	0.00	0.00	0.00	0.00	0.00	0.24	0.71	0.00	0.00	0.12	0.00
A12	2022-07-03	0.00	0.00	0.12	0.00	0.12	0.47	0.00	0.00	0.00	0.00	0.00
A12	2022-07-04	0.00	0.00	0.00	0.00	0.00	0.23	1.76	0.00	0.00	0.23	0.00
A12	2022-07-05	0.00	0.00	0.00	0.00	0.00	0.47	1.29	0.00	0.00	0.58	0.00
A12	2022-07-06	0.00	0.00	0.00	0.00	0.00	0.12	0.58	0.00	0.00	0.23	0.00
A12	2022-07-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A12	2022-07-08	0.00	0.00	0.00	0.00	0.12	0.58	2.32	0.00	0.00	0.12	0.00
A12	2022-07-09	0.00	0.00	0.00	0.00	0.00	0.12	3.24	0.00	0.00	0.12	0.00
A12	2022-07-10	0.00	0.00	0.00	0.00	0.00	1.15	3.69	0.00	0.00	0.35	0.00
A12	2022-07-11	0.00	0.00	0.11	0.00	0.11	1.15	4.24	0.00	0.00	0.23	0.00
A12	2022-07-12	0.00	0.00	0.00	0.00	0.11	0.34	0.57	0.00	0.00	0.00	0.00
A12	2022-07-13	0.11	0.00	0.00	0.00	0.00	1.25	1.02	0.00	0.00	0.23	0.00
A12	2022-07-14	0.00	0.00	0.00	0.00	0.00	0.45	5.33	0.00	0.00	0.34	0.00
A12	2022-07-15	0.00	0.00	0.00	0.00	0.00	0.45	1.25	0.00	0.00	0.23	0.00
A12	2022-07-16	0.11	0.00	0.23	0.00	0.11	0.11	4.50	0.00	0.00	0.11	0.00
A12	2022-07-17	0.11	0.00	0.11	0.00	0.00	0.00	1.01	0.00	0.00	0.34	0.00
A12	2022-07-18	0.00	0.00	0.11	0.00	0.00	0.11	2.01	0.00	0.00	0.00	0.00
A12	2022-07-19	0.00	0.00	0.00	0.00	0.11	1.00	6.67	0.00	0.11	0.00	0.00
A12	2022-07-20	0.00	0.00	0.00	0.00	0.55	0.44	4.09	0.00	0.00	0.44	0.00
A12	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.33	1.10	0.00	0.00	0.22	0.00
A12	2022-07-22	0.00	0.00	0.11	0.00	0.11	0.66	4.49	0.00	0.00	0.88	0.00
A12	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.33	2.61	0.00	0.00	0.33	0.00
A12	2022-07-24	0.00	0.00	0.33	0.00	0.00	1.08	7.27	0.00	0.22	1.41	0.00
A12	2022-07-25	0.00	0.00	0.11	0.00	0.11	0.43	2.26	0.00	0.00	0.75	0.00
A12	2022-07-26	0.11	0.00	0.11	0.00	0.11	0.32	2.90	0.00	0.00	0.32	0.00
A12	2022-07-27	0.00	0.00	0.00	0.11	0.11	0.43	3.52	0.00	0.00	0.43	0.00
A12	2022-07-28	0.11	0.00	0.21	0.00	0.21	0.32	0.64	0.00	0.00	0.11	0.00
A12	2022-07-29	0.00	0.00	0.32	0.00	0.42	0.32	4.87	0.00	0.21	2.01	0.00
A12	2022-07-30	0.21	0.00	0.11	0.00	0.00	0.32	1.89	0.00	0.00	0.63	0.00
A12	2022-07-31	0.00	0.00	0.00	0.00	0.10	0.00	2.30	0.00	0.00	0.00	0.00
A12	2022-08-01	0.00	0.00	0.26	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00
A12	2022-08-02	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A13	2022-06-03	0.12	0.00	0.12	0.00	0.23	0.00	0.58	0.00	0.00	0.12	0.00
A13	2022-06-04	0.23	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
A13	2022-06-05	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
A13	2022-06-06	0.00	0.00	0.12	0.00	0.00	0.12	0.35	0.00	0.00	0.00	0.00
A13	2022-06-07	0.12	0.00	0.12	0.00	0.00	0.23	0.12	0.00	0.00	0.12	0.00
A13	2022-06-08	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.00	0.00
A13	2022-06-09	0.12	0.00	0.00	0.00	0.24	0.83	1.18	0.00	0.12	0.47	0.00
A13	2022-06-10	0.24	0.00	0.00	0.00	0.24	0.00	2.83	0.00	0.00	0.00	0.00
A13	2022-06-11	0.12	0.00	0.00	0.00	0.00	0.47	2.37	0.00	0.00	0.59	0.00
A13	2022-06-12	0.12	0.00	0.24	0.00	0.00	1.07	4.99	0.00	0.12	0.24	0.00
A13	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.12	1.43	0.00	0.00	0.24	0.00
A13	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.36	2.38	0.00	0.00	0.12	0.00
A13	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.24	0.83	0.00	0.00	0.24	0.00
A13	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.95	3.70	0.00	0.72	1.67	0.00
A13	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.36	4.41	0.00	0.00	0.48	0.00
A13	2022-06-18	0.00	0.00	0.60	0.00	0.60	0.96	8.49	0.00	0.00	0.72	0.00
A13	2022-06-19	0.12	0.00	0.24	0.00	0.60	0.84	11.59	0.00	0.12	1.79	0.00
A13	2022-06-20	0.00	0.00	0.48	0.00	0.24	1.31	15.18	0.00	0.12	0.60	0.00
A13	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.12	0.00
A13	2022-06-22	0.00	0.00	0.72	0.00	0.24	0.72	4.78	0.00	0.24	0.60	0.00
A13	2022-06-23	0.12	0.00	0.00	0.00	0.12	0.24	4.66	0.00	0.00	0.60	0.00
A13	2022-06-24	0.00	0.00	0.24	0.00	0.00	0.60	3.22	0.00	0.12	0.36	0.00
A13	2022-06-25	0.12	0.00	0.24	0.00	0.00	1.31	6.08	0.00	0.00	0.24	0.00
A13	2022-06-26	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A13	2022-06-27	0.12	0.00	0.00	0.00	0.12	0.83	10.00	0.00	0.00	0.95	0.00
A13	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.95	2.49	0.00	0.00	0.00	0.00
A13	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.36	2.13	0.00	0.00	0.12	0.00
A13	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.47	1.30	0.00	0.00	0.24	0.00
A13	2022-07-01	0.00	0.00	0.12	0.00	0.12	0.83	3.90	0.00	0.00	0.24	0.00
A13	2022-07-02	0.00	0.00	0.24	0.00	0.00	0.94	10.04	0.00	0.00	0.24	0.00
A13	2022-07-03	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
A13	2022-07-04	0.00	0.00	0.47	0.00	0.00	0.47	2.11	0.00	0.00	0.23	0.00
A13	2022-07-05	0.23	0.00	0.23	0.00	0.23	1.40	10.88	0.00	0.12	0.70	0.00
A13	2022-07-06	0.00	0.00	0.12	0.00	0.00	0.23	1.98	0.00	0.00	0.12	0.00
A13	2022-07-07	0.00	0.00	0.00	0.00	0.12	0.58	3.60	0.00	0.00	0.12	0.00
A13	2022-07-08	0.00	0.00	0.69	0.00	0.12	2.32	9.27	0.00	0.00	0.46	0.00
A13	2022-07-09	0.46	0.00	0.12	0.00	0.46	1.39	5.55	0.00	0.00	0.58	0.00
A13	2022-07-10	0.00	0.00	0.00	0.00	0.12	1.15	4.49	0.00	0.00	0.23	0.00
A13	2022-07-11	0.11	0.00	0.69	0.00	0.23	1.49	8.95	0.00	0.00	1.03	0.00
A13	2022-07-12	0.00	0.00	0.11	0.00	0.11	0.46	2.51	0.00	0.00	0.00	0.00
A13	2022-07-13	0.00	0.00	0.11	0.00	0.46	1.14	6.38	0.00	0.00	0.91	0.00
A13	2022-07-14	0.11	0.00	0.11	0.00	0.45	2.27	8.28	0.00	0.00	0.91	0.00
A13	2022-07-15	0.00	0.00	0.00	0.00	0.11	0.68	7.92	0.00	0.00	0.45	0.00
A13	2022-07-16	0.11	0.00	0.34	0.00	0.45	2.25	15.20	0.00	0.11	1.01	0.00
A13	2022-07-17	0.00	0.00	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.34	0.00
A13	2022-07-18	0.22	0.00	0.45	0.00	0.22	1.12	7.14	0.00	0.00	0.56	0.00
A13	2022-07-19	0.33	0.00	0.33	0.00	0.00	4.00	16.33	0.00	0.33	22.33	0.00
A13	2022-07-20	0.00	0.00	0.22	0.00	0.00	3.31	12.04	0.00	0.55	1.44	0.00
A13	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.55	1.98	0.00	0.11	0.22	0.00
A13	2022-07-22	0.00	0.00	0.11	0.00	0.33	0.88	7.34	0.00	0.11	0.77	0.00
A13	2022-07-23	0.00	0.00	0.11	0.00	0.00	0.76	2.29	0.00	0.22	0.98	0.00
A13	2022-07-24	0.00	0.00	0.54	0.00	0.11	1.95	8.68	0.00	0.43	0.43	0.00
A13	2022-07-25	0.00	0.00	0.54	0.00	0.32	0.32	5.06	0.00	0.54	0.86	0.00
A13	2022-07-26	0.00	0.00	0.43	0.00	0.21	1.18	9.34	0.00	0.00	0.86	0.00
A13	2022-07-27	0.00	0.00	0.21	0.00	0.11	0.75	9.50	0.00	0.00	0.32	0.00
A13	2022-07-28	0.00	0.00	0.11	0.00	0.42	1.27	11.34	0.00	0.11	0.53	0.00
A13	2022-07-29	0.00	0.00	0.53	0.00	1.06	1.32	1.59	0.00	0.00	0.26	0.00
A14	2022-07-08	0.00	0.00	0.00	0.00	0.00	1.16	5.93	0.00	0.00	0.12	0.00
A14	2022-07-09	0.00	0.00	0.00	0.00	0.00	1.27	6.14	0.00	0.00	0.69	0.00
A14	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.35	0.46	0.00	0.00	0.00	0.00
A14	2022-07-11	0.11	0.00	0.00	0.00	0.00	0.92	8.62	0.00	0.11	1.38	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A14	2022-07-12	0.11	0.00	0.00	0.11	0.00	0.11	0.46	0.00	0.00	0.00	0.00
A14	2022-07-13	0.00	0.00	0.00	0.00	0.00	1.03	6.84	0.00	0.11	0.46	0.00
A14	2022-07-14	0.00	0.00	0.00	0.00	0.00	1.48	17.50	0.00	0.00	0.68	0.00
A14	2022-07-15	0.00	0.00	0.00	0.11	0.00	0.34	2.94	0.00	0.00	0.00	0.00
A14	2022-07-16	0.00	0.00	0.00	0.11	0.00	0.79	9.47	0.00	0.00	0.79	0.00
A14	2022-07-17	0.00	0.00	0.00	0.00	0.11	0.22	1.35	0.00	0.11	0.22	0.00
A14	2022-07-18	0.00	0.00	0.11	0.00	0.00	0.89	0.22	0.00	0.00	0.34	0.00
A14	2022-07-19	0.00	0.00	0.00	0.00	0.00	1.11	6.34	0.00	0.00	1.34	0.00
A14	2022-07-20	0.00	0.00	0.00	0.00	0.00	1.44	9.19	0.00	0.11	0.55	0.00
A14	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.22	1.65	0.00	0.00	0.11	0.00
A14	2022-07-22	0.00	0.00	0.00	0.00	0.00	0.00	2.08	0.00	0.00	0.44	0.00
A14	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.22	2.73	0.00	0.00	0.65	0.00
A14	2022-07-24	0.00	0.00	0.00	0.11	0.00	0.43	3.04	0.00	0.00	0.33	0.00
A14	2022-07-25	0.00	0.00	0.00	0.00	0.00	0.43	2.05	0.00	0.22	0.43	0.00
A14	2022-07-26	0.11	0.00	0.00	0.00	0.00	0.22	2.47	0.00	0.00	0.11	0.00
A14	2022-07-27	0.00	0.00	0.11	0.00	0.00	0.00	2.03	0.00	0.00	0.32	0.00
A14	2022-07-28	0.00	0.00	0.11	0.00	0.21	0.32	2.87	0.00	0.00	0.32	0.00
A14	2022-07-29	0.00	0.00	0.11	0.00	0.21	0.74	4.87	0.00	0.00	0.53	0.00
A14	2022-07-30	0.00	0.00	0.32	0.00	0.21	0.21	1.68	0.00	0.00	0.11	0.00
A14	2022-07-31	0.00	0.00	0.21	0.00	0.10	0.00	1.57	0.00	0.00	0.00	0.00
A14	2022-08-01	0.00	0.00	0.21	0.10	0.31	0.62	0.94	0.00	0.00	0.52	0.00
A14	2022-08-02	0.00	0.00	0.00	0.00	0.10	0.31	0.21	0.00	0.00	0.10	0.00
A14	2022-08-03	0.00	0.00	0.31	0.10	0.21	0.31	2.88	0.00	0.21	0.00	0.00
A14	2022-08-04	0.10	0.00	0.00	0.20	0.20	1.13	2.25	0.00	0.20	0.20	0.00
A14	2022-08-05	0.10	0.00	0.10	0.00	0.31	1.02	8.03	0.00	0.00	0.92	0.00
A14	2022-08-06	0.00	0.00	0.00	0.00	0.00	0.41	0.91	0.00	0.00	0.71	0.00
A14	2022-08-07	0.00	0.00	0.20	0.20	0.10	0.81	3.12	0.00	0.20	0.20	0.00
A14	2022-08-08	0.00	0.00	0.00	0.10	0.10	1.10	7.60	0.00	0.40	1.00	0.00
A14	2022-08-09	0.00	0.00	0.20	0.10	0.30	0.30	16.02	0.00	0.20	1.09	0.00
A14	2022-08-10	0.00	0.00	0.40	0.10	0.00	0.69	5.44	0.00	0.00	0.59	0.00
A14	2022-08-11	0.00	0.00	0.30	0.30	0.20	0.39	6.40	0.00	0.00	0.10	0.00
A14	2022-08-12	0.29	0.00	0.20	0.10	0.29	1.17	5.87	0.00	0.00	0.29	0.00
A14	2022-08-13	0.00	0.00	0.10	0.00	0.10	0.49	2.92	0.00	0.00	0.10	0.00
A14	2022-08-14	0.00	0.00	0.00	0.00	0.00	0.19	1.35	0.00	0.00	0.19	0.00
A14	2022-08-15	0.00	0.00	0.00	0.00	0.10	1.63	18.46	0.00	0.58	1.25	0.00
A14	2022-08-16	0.00	0.00	0.00	0.00	0.00	0.38	4.50	0.00	0.00	0.19	0.00
A14	2022-08-17	0.29	0.00	0.19	0.10	0.19	0.67	5.42	0.00	0.00	0.48	0.00
A14	2022-08-18	0.00	0.00	0.19	0.28	0.85	0.47	10.69	0.00	0.19	0.66	0.00
A14	2022-08-19	0.09	0.00	0.38	0.09	0.28	0.19	1.41	0.00	0.00	0.09	0.00
A16	2022-06-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A16	2022-06-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A16	2022-06-04	0.00	0.00	0.00	0.00	0.00	0.58	0.93	0.00	0.00	0.35	0.00
A16	2022-06-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A16	2022-06-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A16	2022-06-07	0.12	0.00	0.12	0.00	0.00	0.12	0.47	0.00	0.00	0.12	0.00
A16	2022-06-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A16	2022-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.35	0.00
A16	2022-06-10	0.00	0.00	0.00	0.00	0.00	0.83	0.24	0.00	0.00	0.00	0.00
A16	2022-06-11	0.00	0.00	0.00	0.00	0.00	0.59	1.42	0.00	0.00	0.00	0.00
A16	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.12	1.42	0.00	0.00	0.12	0.00
A16	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.12	3.32	0.00	0.36	0.71	0.00
A16	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.59	61.07	0.00	0.24	0.71	0.00
A16	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.00	3.45	0.00	0.00	0.36	0.00
A16	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
A16	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.00	1.79	0.00	0.00	0.12	0.00
A16	2022-06-18	0.00	0.00	0.00	0.00	0.00	0.83	33.04	0.00	0.12	1.67	0.00
A16	2022-06-19	0.00	0.00	0.00	0.00	0.00	0.60	25.05	0.00	1.19	1.43	0.00
A16	2022-06-20	0.00	0.00	0.00	0.00	0.00	1.31	2.15	0.00	0.12	0.12	0.00
A16	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.00	0.00
A16	2022-06-22	0.24	0.00	0.12	0.00	0.00	0.12	12.05	0.00	0.60	0.60	0.00
A16	2022-06-23	0.00	0.00	0.00	0.00	0.00	0.36	2.27	0.00	0.00	0.36	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A16	2022-06-24	0.00	0.00	0.00	0.00	0.00	0.48	8.69	0.00	1.67	1.43	0.00
A16	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.36	2.62	0.00	0.12	0.12	0.00
A16	2022-06-26	0.00	0.00	0.00	0.00	0.12	0.24	0.48	0.00	0.00	0.00	0.00
A16	2022-06-27	0.00	0.00	0.00	0.00	0.00	0.12	2.73	0.00	0.12	0.12	0.00
A16	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.24	0.95	0.00	0.00	0.00	0.00
A16	2022-06-29	0.00	0.00	0.00	0.00	0.00	3.43	5.33	0.00	0.47	2.60	0.00
A16	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.24	1.65	0.00	0.00	0.24	0.00
A16	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.83	22.99	0.00	0.47	2.48	0.00
A16	2022-07-02	0.00	0.00	0.00	0.00	0.00	0.59	16.50	0.00	0.12	0.35	0.00
A16	2022-07-03	0.00	0.00	0.00	0.00	0.00	2.23	4.58	0.00	0.00	0.47	0.00
A16	2022-07-04	0.00	0.00	0.00	0.00	0.00	1.64	5.98	0.00	0.00	0.12	0.00
A16	2022-07-05	0.12	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.12	0.23	0.00
A21	2022-06-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
A21	2022-06-03	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
A21	2022-06-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A21	2022-06-05	0.00	0.00	0.00	0.00	0.23	0.00	0.23	0.00	0.00	0.00	0.00
A21	2022-06-06	0.00	0.00	0.00	0.00	0.00	0.70	0.35	0.00	0.00	0.00	0.00
A21	2022-06-07	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
A21	2022-06-08	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.12	0.00
A21	2022-06-09	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
A21	2022-06-10	0.00	0.00	0.00	0.00	0.24	0.24	0.71	0.00	0.00	0.24	0.00
A21	2022-06-11	0.00	0.00	0.00	0.00	0.00	0.59	0.24	0.00	0.00	0.12	0.00
A21	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00
A21	2022-06-13	0.00	0.00	0.00	0.00	0.00	1.07	2.61	0.00	0.00	0.24	0.00
A21	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.48	0.59	0.00	0.00	0.12	0.00
A21	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.36	2.02	0.00	0.00	0.00	0.00
A21	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.71	2.02	0.00	0.00	0.36	0.00
A21	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
A21	2022-06-18	0.00	0.00	0.00	0.00	0.00	0.48	0.60	0.00	0.00	0.00	0.00
A21	2022-06-19	0.00	0.00	0.00	0.00	0.00	0.24	1.19	0.00	0.00	0.24	0.00
A21	2022-06-20	0.00	0.00	0.00	0.00	0.00	1.19	1.67	0.00	0.00	0.00	0.00
A21	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.12	2.15	0.00	0.00	0.12	0.00
A21	2022-06-22	0.00	0.00	0.00	0.00	0.00	0.60	0.24	0.00	0.00	0.12	0.00
A21	2022-06-23	0.00	0.00	0.00	0.00	0.00	0.72	0.12	0.00	0.00	0.00	0.00
A21	2022-06-24	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.12	0.00
A21	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.83	1.43	0.00	0.00	0.24	0.00
A21	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
A21	2022-06-27	0.00	0.00	0.12	0.00	0.00	1.54	8.44	0.00	0.59	1.90	0.00
A21	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00
A21	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.47	1.07	0.00	0.00	0.12	0.00
A21	2022-06-30	0.00	0.00	0.12	0.00	0.12	0.35	0.24	0.00	0.00	0.00	0.00
A21	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.47	0.59	0.00	0.12	0.24	0.00
A21	2022-07-02	0.00	0.00	0.00	0.00	0.00	0.59	0.12	0.00	0.00	0.12	0.00
A21	2022-07-03	0.00	0.00	0.00	0.00	0.00	0.59	0.70	0.00	0.00	0.00	0.00
A21	2022-07-04	0.00	0.00	0.00	0.00	0.00	0.35	0.47	0.00	0.00	0.23	0.00
A21	2022-07-05	0.00	0.00	0.00	0.00	0.00	0.35	0.70	0.00	0.00	0.00	0.00
A21	2022-07-06	0.00	0.00	0.00	0.00	0.00	4.66	1.17	0.00	0.00	0.82	0.00
A21	2022-07-07	0.00	0.00	0.00	0.00	0.12	0.46	0.12	0.00	0.00	0.00	0.00
A21	2022-07-08	0.12	0.00	0.92	0.00	0.46	0.92	2.08	0.00	0.00	0.92	0.00
A21	2022-07-09	0.00	0.00	0.00	0.00	0.00	0.46	0.46	0.00	0.00	0.00	0.00
A21	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.69	1.03	0.00	0.00	0.46	0.00
A21	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.69	1.72	0.00	0.00	0.23	0.00
A21	2022-07-12	0.00	0.00	0.11	0.00	0.11	0.00	0.91	0.00	0.00	0.00	0.00
A21	2022-07-13	0.00	0.00	0.00	0.00	0.23	0.91	0.68	0.00	0.00	0.00	0.00
A21	2022-07-14	0.34	0.00	0.11	0.00	0.23	1.25	0.79	0.00	0.00	0.34	0.00
A21	2022-07-15	0.23	0.00	0.23	0.11	0.00	0.90	0.68	0.00	0.00	0.23	0.00
A21	2022-07-16	0.00	0.00	0.00	0.00	0.00	0.67	0.79	0.00	0.00	0.00	0.00
A21	2022-07-17	0.00	0.00	0.00	0.00	0.00	1.01	0.34	0.00	0.11	0.00	0.00
A21	2022-07-18	0.00	0.00	0.11	0.00	0.45	0.11	0.22	0.00	0.00	0.22	0.00
A21	2022-07-19	0.00	0.00	0.00	0.00	0.00	0.33	0.67	0.00	0.00	0.11	0.00
A21	2022-07-20	0.11	0.00	0.22	0.00	0.11	1.43	4.74	0.00	0.33	0.88	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A21	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A21	2022-07-22	0.00	0.00	0.00	0.00	0.00	0.88	9.09	0.00	0.00	0.55	0.00
A21	2022-07-23	0.00	0.00	0.11	0.00	0.11	1.41	5.43	0.00	0.22	0.65	0.00
A21	2022-07-24	0.00	0.00	0.00	0.00	0.00	0.76	4.66	0.00	0.11	0.54	0.00
A21	2022-07-25	0.00	0.00	0.54	0.11	0.00	0.76	0.43	0.00	0.00	0.00	0.00
A21	2022-07-26	0.00	0.00	0.21	0.11	0.00	0.11	0.21	0.00	0.00	0.00	0.00
A21	2022-07-27	0.00	0.00	0.00	0.11	0.00	0.75	4.59	0.00	0.00	0.96	0.00
A21	2022-07-28	0.00	0.00	0.11	0.00	0.00	1.27	2.76	0.00	0.00	0.11	0.00
A21	2022-07-29	0.11	0.00	0.53	0.11	0.11	0.42	0.00	0.00	0.00	0.00	0.00
A21	2022-07-30	0.00	0.00	0.00	0.00	0.00	0.10	0.42	0.00	0.10	0.00	0.00
A21	2022-07-31	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00
A21	2022-08-01	0.00	0.00	0.00	0.00	0.00	0.21	0.31	0.00	0.00	0.21	0.00
A21	2022-08-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A21	2022-08-03	0.00	0.00	0.00	0.00	0.00	0.56	2.22	0.00	0.00	0.00	0.00
A22	2022-06-07	0.35	0.00	2.23	0.00	6.22	0.12	1.29	0.00	0.00	0.47	0.00
A22	2022-06-08	1.77	0.00	16.38	0.00	4.71	0.00	7.19	0.00	0.35	1.89	0.00
A22	2022-06-09	1.42	0.00	10.28	0.00	4.49	0.12	3.90	0.00	0.12	1.06	0.00
A22	2022-06-10	1.30	0.00	20.67	0.00	6.97	0.24	5.20	0.00	0.12	1.65	0.00
A22	2022-06-11	0.59	0.00	5.69	0.00	0.71	0.12	1.07	0.00	0.00	0.36	0.00
A22	2022-06-12	0.83	0.00	4.99	0.00	4.99	0.00	6.18	0.00	0.00	0.95	0.00
A22	2022-06-13	0.48	0.00	2.02	0.00	1.78	0.12	0.83	0.00	0.00	0.12	0.00
A22	2022-06-14	0.00	0.00	1.07	0.00	0.71	0.00	1.43	0.00	0.00	0.12	0.00
A22	2022-06-15	0.00	0.00	0.24	0.00	1.79	0.12	1.19	0.00	0.00	0.48	0.00
A22	2022-06-16	0.00	0.00	2.03	0.00	0.48	0.12	0.12	0.00	0.00	0.12	0.00
A22	2022-06-17	0.60	0.00	3.94	0.00	2.62	0.00	2.15	0.00	0.00	0.72	0.00
A22	2022-06-18	0.12	0.00	1.55	0.00	1.79	0.00	4.06	0.00	0.00	0.72	0.00
A22	2022-06-19	0.36	0.00	2.87	0.00	1.20	0.48	9.92	0.00	0.00	1.67	0.00
A22	2022-06-20	0.24	0.00	2.15	0.00	1.08	0.48	6.57	0.00	0.12	0.60	0.00
A22	2022-06-21	0.00	0.00	1.55	0.00	0.84	0.00	0.00	0.00	0.00	0.24	0.00
A22	2022-06-22	0.84	0.00	7.77	0.00	3.11	0.60	4.78	0.00	0.00	0.72	0.00
A22	2022-06-23	4.30	0.00	7.89	0.00	4.30	0.72	4.90	0.00	0.24	1.08	0.00
A22	2022-06-24	0.36	0.00	1.43	0.00	0.72	0.36	3.10	0.00	0.00	0.83	0.00
A22	2022-06-25	4.77	0.00	6.08	0.00	1.67	0.00	2.50	0.00	0.00	0.83	0.00
A22	2022-06-26	0.12	0.00	1.43	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00
A22	2022-06-27	0.24	0.00	1.79	0.00	1.67	0.36	3.10	0.00	0.00	0.48	0.00
A22	2022-06-28	0.00	0.00	0.83	0.00	0.00	0.12	0.48	0.00	0.00	0.12	0.00
A22	2022-06-29	0.00	0.00	0.95	0.00	0.12	0.24	2.85	0.00	0.00	0.24	0.00
A22	2022-06-30	0.36	0.00	4.62	0.00	1.89	0.12	8.99	0.00	0.00	0.24	0.00
A22	2022-07-01	0.00	0.00	1.30	0.00	0.83	0.12	0.47	0.00	0.00	0.12	0.00
A22	2022-07-02	0.00	0.00	3.07	0.00	0.83	0.12	1.65	0.00	0.00	0.24	0.00
A22	2022-07-03	0.12	0.00	3.53	0.00	3.06	0.35	1.06	0.00	0.00	0.24	0.00
A22	2022-07-04	0.47	0.00	3.99	0.00	1.06	0.70	2.58	0.00	0.00	0.23	0.00
A22	2022-07-05	0.35	0.00	3.74	0.00	2.81	0.35	3.27	0.00	0.00	1.05	0.00
A22	2022-07-06	0.00	0.00	1.05	0.00	4.67	0.35	1.52	0.00	0.00	0.58	0.00
A22	2022-07-07	0.35	0.00	3.14	0.00	0.70	0.00	0.81	0.00	0.00	0.23	0.00
A22	2022-07-08	0.46	0.00	6.95	0.00	1.16	0.69	26.87	0.00	0.46	1.39	0.00
A22	2022-07-09	0.58	0.00	4.62	0.00	1.04	0.23	1.27	0.00	0.00	1.16	0.00
A22	2022-07-10	0.00	0.00	0.92	0.00	3.69	0.00	0.23	0.00	0.00	0.35	0.00
A22	2022-07-11	0.00	0.00	0.34	0.00	0.23	0.46	1.38	0.00	0.00	0.11	0.00
A22	2022-07-12	0.00	0.00	1.83	0.00	1.14	0.34	1.26	0.00	0.00	0.69	0.00
A22	2022-07-13	1.71	0.00	5.46	0.00	1.82	2.50	13.55	0.00	0.00	2.50	0.00
A22	2022-07-14	0.45	0.00	3.97	0.00	0.57	0.23	9.64	0.00	0.00	1.02	0.00
A22	2022-07-15	0.45	0.00	2.26	0.00	0.57	1.58	10.75	0.00	0.00	1.81	0.00
A22	2022-07-16	4.28	0.00	10.58	0.00	1.24	0.68	9.79	0.00	0.11	3.26	0.00
A22	2022-07-17	0.00	0.00	0.67	0.00	3.25	0.11	2.69	0.00	0.00	0.11	0.00
A22	2022-07-18	6.69	0.00	12.82	0.00	2.12	2.23	7.58	0.00	0.22	2.79	0.00
A22	2022-07-19	0.11	0.00	3.67	0.00	0.33	1.22	5.67	0.00	0.00	1.33	0.00
A22	2022-07-20	1.55	0.00	2.87	0.00	0.55	0.88	6.41	0.00	0.11	1.55	0.00
A22	2022-07-21	0.00	0.00	5.06	0.00	1.32	0.11	3.96	0.00	0.00	0.33	0.00
A22	2022-07-22	3.28	0.00	9.53	0.00	0.88	0.77	1.53	0.00	0.11	0.66	0.00
A22	2022-07-23	0.00	0.00	1.31	0.00	1.52	0.33	1.20	0.00	0.00	0.44	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A22	2022-07-24	0.98	0.00	4.34	0.00	2.17	1.41	4.01	0.00	0.22	1.41	0.00
A22	2022-07-25	0.54	0.00	9.48	0.00	1.51	1.08	6.89	0.00	0.00	1.29	0.00
A22	2022-07-26	0.75	0.00	12.13	0.21	4.51	1.50	5.04	0.00	0.32	1.18	0.00
A22	2022-07-27	1.07	0.00	14.95	0.11	3.95	1.49	3.10	0.00	0.00	0.64	0.00
A22	2022-07-28	0.32	0.00	5.63	2.44	4.78	1.17	5.20	0.00	0.11	2.12	0.00
A22	2022-07-29	1.06	0.00	6.03	0.00	1.59	1.16	8.78	0.00	0.21	2.54	0.00
A22	2022-07-30	0.22	0.00	2.43	0.00	4.30	0.66	2.76	0.00	0.00	1.10	0.00
A23	2022-06-07	0.00	0.00	0.23	0.00	0.00	0.12	1.41	0.00	0.00	0.12	0.00
A23	2022-06-08	0.00	0.00	0.24	0.00	0.24	0.35	1.53	0.00	0.00	0.35	0.00
A23	2022-06-09	0.24	0.00	0.59	0.00	0.71	0.59	1.65	0.00	0.35	0.12	0.00
A23	2022-06-10	0.00	0.00	0.59	0.00	0.12	0.00	2.24	0.00	0.00	0.12	0.00
A23	2022-06-11	0.00	0.00	0.00	0.00	0.00	0.12	1.54	0.00	0.00	0.12	0.00
A23	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.12	1.07	0.00	0.00	0.00	0.00
A23	2022-06-13	0.24	0.00	0.36	0.00	0.00	0.59	2.85	0.00	0.00	0.00	0.00
A23	2022-06-14	0.00	0.00	0.00	0.00	0.48	0.12	0.12	0.00	0.00	0.00	0.00
A23	2022-06-15	0.00	0.00	0.00	0.00	0.12	0.00	0.36	0.00	0.00	0.00	0.00
A23	2022-06-16	0.36	0.00	0.48	0.00	0.12	0.36	7.04	0.00	1.43	1.43	0.00
A23	2022-06-17	0.00	0.00	0.12	0.00	0.12	0.24	1.79	0.00	0.00	0.48	0.00
A23	2022-06-18	0.00	0.00	0.24	0.00	0.12	0.24	2.87	0.00	0.00	0.24	0.00
A23	2022-06-19	0.24	0.00	0.00	0.00	0.00	2.15	5.38	0.00	0.00	0.60	0.00
A23	2022-06-20	0.00	0.00	0.36	0.00	0.24	0.84	5.62	0.00	0.00	0.60	0.00
A23	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.36	0.00
A23	2022-06-22	0.12	0.00	0.12	0.00	0.12	0.84	5.02	0.00	0.00	0.48	0.00
A23	2022-06-23	0.00	0.00	0.12	0.00	0.12	1.08	3.35	0.00	0.00	0.72	0.00
A23	2022-06-24	0.12	0.00	0.12	0.00	0.00	1.55	3.82	0.00	0.00	0.72	0.00
A23	2022-06-25	0.00	0.00	0.36	0.00	0.36	0.36	7.51	0.00	0.95	0.72	0.00
A23	2022-06-26	0.00	0.00	0.00	0.00	0.24	0.00	0.36	0.00	0.00	0.00	0.00
A23	2022-06-27	0.00	0.00	0.36	0.00	0.12	0.60	31.78	0.00	2.38	1.43	0.00
A23	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.24	0.83	0.00	0.00	0.12	0.00
A23	2022-06-29	0.00	0.00	0.00	0.00	0.24	0.24	1.54	0.00	0.00	0.12	0.00
A23	2022-06-30	0.00	0.00	0.00	0.00	0.12	0.12	2.37	0.00	0.00	0.00	0.00
A23	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.71	2.48	0.00	0.00	0.24	0.00
A23	2022-07-02	0.12	0.00	0.83	0.00	0.12	0.59	2.48	0.00	0.00	0.35	0.00
A23	2022-07-03	0.00	0.00	0.59	0.00	0.12	14.00	1.06	0.00	0.00	0.35	0.00
A23	2022-07-04	0.00	0.00	1.53	0.00	0.82	0.59	1.76	0.00	0.00	0.35	0.00
A23	2022-07-05	0.12	0.00	0.82	0.00	0.35	0.94	4.44	0.00	0.12	0.23	0.00
A23	2022-07-06	0.00	0.00	0.00	0.00	0.00	0.70	24.98	0.00	3.74	3.50	0.00
A23	2022-07-07	0.12	0.00	0.23	0.00	0.12	0.70	1.05	0.00	0.00	0.00	0.00
A23	2022-07-08	0.00	0.00	0.35	0.00	0.00	0.93	5.79	0.00	0.23	0.35	0.00
A23	2022-07-09	0.00	0.00	0.00	0.00	0.00	1.04	3.24	0.00	0.00	0.58	0.00
A23	2022-07-10	0.12	0.00	0.92	0.00	0.23	1.50	8.29	0.00	0.23	0.58	0.00
A23	2022-07-11	0.00	0.00	0.11	0.00	0.00	1.72	9.18	0.00	0.00	0.46	0.00
A23	2022-07-12	0.11	0.00	0.23	0.00	0.00	0.23	0.34	0.00	0.00	0.00	0.00
A23	2022-07-13	0.00	0.00	0.00	0.11	0.00	1.02	3.53	0.00	0.00	0.23	0.00
A23	2022-07-14	0.00	0.00	0.23	0.00	0.11	1.02	5.56	0.00	0.00	0.11	0.00
A23	2022-07-15	0.00	0.00	0.11	0.00	0.00	0.11	2.15	0.00	0.00	0.00	0.00
A23	2022-07-16	0.11	0.00	0.00	0.00	0.11	0.79	4.50	0.00	0.34	0.23	0.00
A23	2022-07-17	0.00	0.00	0.00	0.00	0.00	0.34	1.90	0.00	0.00	0.22	0.00
A23	2022-07-18	0.00	0.00	0.22	0.00	0.00	0.33	2.12	0.00	0.00	0.33	0.00
A23	2022-07-19	0.11	0.00	1.33	0.00	0.22	0.78	9.56	0.00	0.11	0.78	0.00
A23	2022-07-20	0.22	0.00	0.66	0.00	0.11	1.33	10.05	0.00	0.77	0.66	0.00
A23	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.33	1.43	0.00	0.11	0.00	0.00
A23	2022-07-22	0.00	0.00	0.00	0.00	0.00	0.55	4.27	0.00	0.00	0.11	0.00
A23	2022-07-23	0.00	0.00	0.44	0.00	0.00	0.87	5.66	0.00	0.33	0.87	0.00
A23	2022-07-24	0.11	0.00	0.22	0.22	0.11	1.08	6.84	0.00	0.22	0.43	0.00
A23	2022-07-25	0.11	0.00	0.86	0.00	0.22	0.32	3.23	0.00	0.65	0.22	0.00
A23	2022-07-26	0.11	0.00	0.32	0.00	0.43	5.04	12.56	0.00	1.72	1.29	0.00
A23	2022-07-27	0.32	0.00	0.53	0.00	0.21	0.43	5.01	0.00	0.00	0.43	0.00
A23	2022-07-28	0.11	0.00	0.53	0.00	0.21	0.00	0.85	0.00	0.00	0.21	0.00
A23	2022-07-29	0.00	0.00	0.99	0.99	0.00	0.00	12.92	0.00	0.00	0.00	0.00
A23	2022-07-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A28	2022-06-03	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00	0.00
A28	2022-06-04	0.00	0.00	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00	0.00
A28	2022-06-05	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
A28	2022-06-06	0.00	0.00	0.00	0.00	0.00	0.35	0.12	0.00	0.00	0.12	0.00
A28	2022-06-07	0.00	0.00	0.00	0.00	0.00	0.23	0.12	0.00	0.00	0.00	0.00
A28	2022-06-08	0.00	0.00	0.12	0.00	0.00	2.12	0.35	0.00	0.00	0.24	0.00
A28	2022-06-09	0.00	0.00	0.00	0.00	0.00	0.24	0.94	0.00	0.00	0.00	0.00
A28	2022-06-10	0.00	0.00	0.00	0.00	0.00	1.06	1.65	0.00	0.00	0.71	0.00
A28	2022-06-11	0.00	0.00	0.00	0.00	0.00	9.49	2.13	0.00	0.00	0.36	0.00
A28	2022-06-12	0.00	0.00	0.00	0.00	0.00	9.74	1.78	0.00	0.12	0.71	0.00
A28	2022-06-13	0.00	0.00	0.00	0.00	0.00	4.99	1.78	0.00	0.00	0.36	0.00
A28	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.95	1.19	0.00	0.00	0.12	0.00
A28	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
A28	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.12	0.48	0.00	0.00	0.12	0.00
A28	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.36	4.41	0.00	0.00	0.36	0.00
A28	2022-06-18	0.00	0.00	0.00	0.00	0.00	0.72	4.30	0.00	0.00	0.12	0.00
A28	2022-06-19	0.00	0.00	0.12	0.00	0.00	1.20	11.00	0.00	0.12	1.55	0.00
A28	2022-06-20	0.00	0.00	0.00	0.00	0.12	0.96	4.90	0.00	0.12	0.96	0.00
A28	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A28	2022-06-22	0.00	0.00	0.24	0.12	0.12	0.36	5.38	0.00	0.24	0.96	0.00
A28	2022-06-23	0.24	0.00	0.00	0.00	0.00	1.55	6.33	0.00	0.00	0.36	0.00
A28	2022-06-24	0.00	0.00	0.00	0.00	0.00	1.79	5.49	0.00	0.00	1.07	0.00
A28	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.83	2.39	0.00	0.00	0.12	0.00
A28	2022-06-26	0.00	0.00	0.00	0.00	0.12	0.48	0.60	0.00	0.00	0.00	0.00
A28	2022-06-27	0.00	0.00	0.12	0.00	0.00	0.60	6.79	0.00	0.36	1.55	0.00
A28	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.71	2.73	0.00	0.00	0.95	0.00
A28	2022-06-29	0.00	0.00	0.00	0.00	0.00	1.07	2.37	0.00	0.12	0.83	0.00
A28	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00
C2	2022-07-08	0.00	0.00	0.35	0.00	0.12	6.72	52.01	0.00	0.69	4.63	0.00
C2	2022-07-09	0.00	0.00	0.81	0.00	0.23	2.08	13.29	0.00	0.12	2.89	0.00
C2	2022-07-10	0.00	0.00	0.00	0.00	0.23	3.22	47.79	0.00	0.81	7.02	0.00
C2	2022-07-11	0.00	0.00	0.00	0.00	0.57	4.70	9.98	0.00	0.11	3.21	0.00
C2	2022-07-12	0.00	0.00	0.69	0.00	3.66	1.94	5.94	0.00	0.11	1.49	0.00
C2	2022-07-13	0.23	0.00	0.68	0.00	2.50	5.46	49.18	0.00	0.00	5.46	0.00
C2	2022-07-14	0.57	0.00	2.95	0.00	2.04	7.60	73.04	0.00	0.68	8.51	0.00
C2	2022-07-15	0.11	0.00	0.91	0.00	1.02	3.85	35.43	0.00	0.45	3.40	0.00
C2	2022-07-16	0.00	0.00	0.56	0.00	1.35	7.32	51.67	0.00	0.45	5.85	0.00
C2	2022-07-17	0.00	0.00	0.00	0.00	1.01	2.35	17.69	0.00	0.67	3.47	0.00
C2	2022-07-18	0.45	0.00	1.56	0.00	1.23	9.14	20.07	0.00	0.22	3.90	0.00
C2	2022-07-19	0.22	0.00	1.56	0.00	1.33	8.67	28.00	0.00	0.44	5.22	0.00
C2	2022-07-20	0.33	0.00	1.10	0.00	0.77	10.28	63.42	0.00	1.22	7.18	0.00
C2	2022-07-21	0.00	0.00	0.00	0.00	0.11	4.84	50.64	0.00	0.55	5.28	0.00
C2	2022-07-22	0.33	0.00	1.42	0.00	0.99	1.64	7.01	0.00	0.00	1.31	0.00
C2	2022-07-23	0.00	0.00	0.00	0.00	0.54	1.20	9.15	0.00	0.44	2.83	0.00
C2	2022-07-24	0.22	0.00	2.39	0.00	0.98	5.97	21.48	0.00	0.43	3.69	0.00
C2	2022-07-25	0.00	0.00	0.43	0.00	1.51	4.95	57.52	0.00	1.83	9.16	0.00
C2	2022-07-26	0.75	0.00	10.20	0.00	8.69	6.44	23.83	0.00	0.54	4.51	0.00
C2	2022-07-27	1.28	0.00	5.87	0.00	2.78	2.35	39.39	0.00	0.64	2.56	0.00
C2	2022-07-28	0.21	0.00	2.44	0.11	1.38	5.84	69.34	0.00	1.06	7.96	0.00
C2	2022-07-29	0.11	0.00	1.48	0.00	1.16	4.55	41.69	0.00	0.42	4.87	0.00
C2	2022-07-30	0.00	0.00	0.00	0.00	0.21	6.51	17.02	0.00	0.84	4.10	0.00
C2	2022-07-31	0.00	0.00	0.00	0.00	0.42	2.72	33.87	0.00	1.88	3.66	0.00
C2	2022-08-01	0.00	0.00	0.42	0.10	0.31	6.34	29.84	0.00	0.73	3.43	0.00
C2	2022-08-02	0.00	0.00	0.10	0.00	0.21	0.83	10.55	0.00	4.14	1.66	0.00
C2	2022-08-03	0.41	0.00	1.75	0.82	0.82	4.52	23.22	0.00	1.54	6.68	0.00
C2	2022-08-04	0.20	0.00	1.64	0.20	1.02	12.70	37.58	0.00	1.64	7.37	0.00
C2	2022-08-05	2.64	0.00	2.03	0.10	1.22	10.68	64.47	0.00	2.54	13.83	0.00
C2	2022-08-06	0.10	0.00	1.31	0.81	0.30	1.82	9.90	0.00	0.61	1.82	0.00
C2	2022-08-07	0.20	0.00	1.71	1.71	1.71	3.92	35.48	0.00	1.00	4.22	0.00
C2	2022-08-08	1.20	0.00	1.70	0.10	0.90	6.10	42.00	0.00	0.80	5.40	0.00
C2	2022-08-09	0.50	0.00	1.99	0.20	0.70	3.48	48.26	0.00	1.49	6.27	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C2	2022-08-10	0.30	0.00	3.06	0.10	1.19	0.99	10.48	0.00	0.00	1.48	0.00
C2	2022-08-11	0.20	0.00	0.59	0.39	0.30	2.75	27.05	0.00	0.39	2.36	0.00
C2	2022-08-12	0.29	0.00	0.78	0.00	0.98	4.40	28.04	0.00	0.39	3.91	0.00
C2	2022-08-13	0.00	0.00	0.00	0.00	0.10	0.68	2.63	0.00	0.00	0.58	0.00
C2	2022-08-14	0.00	0.00	0.19	0.00	0.48	1.06	6.09	0.00	0.39	1.45	0.00
C2	2022-08-15	0.19	0.00	0.86	0.10	0.67	2.40	21.79	0.00	0.48	4.61	0.00
C2	2022-08-16	0.00	0.00	0.00	0.00	0.00	2.29	15.95	0.00	0.10	2.20	0.00
C2	2022-08-17	0.09	0.00	0.95	0.19	0.85	5.32	41.58	0.00	2.56	8.16	0.00
C2	2022-08-18	0.00	0.00	0.09	0.00	0.00	7.84	18.05	0.00	0.85	4.16	0.00
C2	2022-08-19	0.09	0.00	0.38	0.09	0.66	1.13	8.92	0.00	0.00	0.94	0.00
C4	2022-07-03	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
C4	2022-07-04	0.00	0.00	0.12	0.00	0.00	1.17	1.41	0.00	0.00	1.41	0.00
C4	2022-07-05	0.00	0.00	0.12	0.00	0.12	1.17	1.87	0.00	0.00	1.40	0.00
C4	2022-07-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
C4	2022-07-07	0.00	0.00	0.00	0.00	0.12	0.12	1.74	0.00	0.00	0.47	0.00
C4	2022-07-08	0.00	0.00	0.23	0.00	0.12	1.16	1.27	0.00	0.00	1.27	0.00
C4	2022-07-09	0.00	0.00	0.00	0.00	0.00	0.46	2.20	0.00	0.00	1.16	0.00
C4	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
C4	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4	2022-07-12	0.00	0.00	0.00	0.00	0.00	0.57	1.03	0.00	0.00	0.80	0.00
C4	2022-07-13	0.00	0.00	0.00	0.00	0.00	1.94	4.55	0.00	0.00	1.48	0.00
C4	2022-07-14	0.00	0.00	0.11	0.00	0.23	1.59	6.92	0.00	0.11	1.25	0.00
C4	2022-07-15	0.00	0.00	0.00	0.00	0.00	1.58	5.32	0.00	0.00	1.02	0.00
C4	2022-07-16	0.00	0.00	0.11	0.00	0.11	1.24	6.30	0.00	0.00	1.35	0.00
C4	2022-07-17	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.00
C4	2022-07-18	0.00	0.00	0.00	0.00	0.00	0.45	2.23	0.00	0.00	1.00	0.00
C4	2022-07-19	0.00	0.00	0.00	0.00	0.00	0.56	4.00	0.00	0.11	2.00	0.00
C4	2022-07-20	0.00	0.00	0.00	0.00	0.00	1.10	1.55	0.00	0.00	0.77	0.00
C4	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.11	0.22	0.00	0.00	0.00	0.00
C4	2022-07-22	0.00	0.00	0.00	0.00	0.11	0.77	3.50	0.00	0.00	0.44	0.00
C4	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.11	0.00
C4	2022-07-24	0.00	0.00	0.00	0.00	0.11	1.08	2.93	0.00	0.00	1.08	0.00
C4	2022-07-25	0.00	0.00	0.00	0.00	0.22	1.51	1.18	0.00	0.00	0.54	0.00
C4	2022-07-26	0.00	0.00	0.11	0.00	0.11	0.54	1.29	0.00	0.00	0.54	0.00
C4	2022-07-27	0.00	0.00	0.11	0.00	0.00	2.67	7.05	0.00	0.00	1.92	0.00
C4	2022-07-28	0.00	0.00	0.00	0.00	0.00	1.59	4.57	0.00	0.00	1.17	0.00
C4	2022-07-29	0.00	0.00	0.11	0.00	0.11	1.06	2.12	0.00	0.00	1.90	0.00
C4	2022-07-30	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
C4	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.10	0.00
C4	2022-08-01	0.10	0.00	0.00	0.00	0.10	1.66	1.04	0.00	0.00	1.04	0.00
C4	2022-08-02	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
C4	2022-08-03	0.00	0.00	0.00	0.00	0.10	0.41	1.13	0.00	0.00	0.62	0.00
C4	2022-08-04	0.00	0.00	0.10	0.00	0.10	2.25	6.04	0.00	0.10	1.74	0.00
C4	2022-08-05	0.00	0.00	0.10	0.00	0.41	3.56	6.92	0.00	0.00	2.54	0.00
C4	2022-08-06	0.00	0.00	0.00	0.00	0.10	1.01	1.11	0.00	0.00	0.81	0.00
C4	2022-08-07	0.00	0.00	0.30	0.10	0.40	0.50	1.61	0.00	0.00	0.90	0.00
C4	2022-08-08	0.00	0.00	0.00	0.00	0.00	4.20	15.80	0.00	0.00	3.60	0.00
C4	2022-08-09	0.00	0.00	0.10	0.00	0.10	1.39	7.76	0.00	0.00	2.39	0.00
C4	2022-08-10	0.00	0.00	0.20	0.00	0.20	0.49	1.68	0.00	0.00	1.19	0.00
C4	2022-08-11	0.00	0.00	0.00	0.00	0.10	0.69	4.52	0.00	0.00	0.59	0.00
C4	2022-08-12	0.00	0.00	0.00	0.00	0.10	0.59	3.81	0.00	0.00	0.78	0.00
C4	2022-08-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4	2022-08-14	0.00	0.00	0.10	0.00	0.00	0.58	2.90	0.00	0.00	0.97	0.00
C4	2022-08-15	0.00	0.00	0.10	0.00	0.48	1.63	11.42	0.00	0.00	3.07	0.00
C4	2022-08-16	0.00	0.00	0.00	0.00	0.10	1.43	2.48	0.00	0.00	0.96	0.00
C4	2022-08-17	0.00	0.00	0.09	0.00	0.09	0.28	4.46	0.00	0.00	1.33	0.00
C4	2022-08-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00
C4	2022-08-19	0.00	0.00	0.00	0.00	0.00	0.41	2.05	0.00	0.00	0.51	0.00
C4	2022-08-20	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
C4	2022-08-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-07	0.00	0.00	0.12	0.00	0.00	0.00	1.17	0.00	0.00	0.59	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C5	2022-06-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-07-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	2022-07-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C7	2022-07-08	0.00	0.00	0.46	0.00	0.81	2.08	14.45	0.00	0.23	2.77	0.00
C7	2022-07-09	0.00	0.00	0.35	0.00	0.35	1.04	3.23	0.00	0.00	1.73	0.00
C7	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.11	4.02	0.00	0.34	1.26	0.00
C7	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.00
C7	2022-07-12	0.00	0.00	0.34	0.00	0.34	0.91	0.91	0.00	0.00	1.03	0.00
C7	2022-07-13	0.00	0.00	0.23	0.00	0.34	0.91	12.18	0.00	0.00	2.05	0.00
C7	2022-07-14	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.00	0.00
C7	2022-07-15	0.00	0.00	0.56	0.00	1.36	1.36	10.51	0.00	0.00	1.81	0.00
C7	2022-07-16	0.00	0.00	0.90	0.00	2.36	1.57	19.89	0.00	0.00	2.81	0.00
C7	2022-07-17	0.00	0.00	0.00	0.00	0.00	0.11	1.23	0.00	0.11	0.45	0.00
C7	2022-07-18	0.00	0.00	0.56	0.00	0.33	1.89	3.01	0.00	0.00	2.23	0.00
C7	2022-07-19	0.00	0.00	2.44	0.00	3.55	1.89	7.43	0.00	0.44	2.00	0.00
C7	2022-07-20	0.00	0.00	0.44	0.00	1.21	1.76	20.73	0.00	0.55	4.30	0.00
C7	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.22	2.53	0.00	0.22	1.10	0.00
C7	2022-07-22	0.00	0.00	0.88	0.22	0.88	0.77	4.38	0.00	0.22	1.75	0.00
C7	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.43	0.00
C7	2022-07-24	0.00	0.00	0.00	0.00	0.00	0.76	0.65	0.00	0.00	0.97	0.00
C7	2022-07-25	0.00	0.00	0.22	0.00	0.32	0.86	5.06	0.00	0.00	1.72	0.00
C7	2022-07-26	0.00	0.00	0.32	0.11	0.32	0.54	5.46	0.00	0.00	1.18	0.00
C7	2022-07-27	0.00	0.00	0.21	0.43	0.64	0.00	12.38	0.00	1.17	2.88	0.00
C7	2022-07-28	0.00	0.00	0.21	0.00	0.11	1.59	18.76	0.00	0.32	2.23	0.00
C7	2022-07-29	0.00	0.00	0.32	0.11	0.21	1.80	11.41	0.00	0.21	3.38	0.00
C7	2022-07-30	0.00	0.00	0.00	0.00	0.00	0.73	6.92	0.00	0.10	1.68	0.00
C7	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.10	0.52	0.00	0.00	0.31	0.00
C7	2022-08-01	0.00	0.00	1.45	0.00	0.93	1.35	5.50	0.00	0.00	2.60	0.00
C7	2022-08-02	0.00	0.00	0.00	0.00	0.00	0.21	0.52	0.00	0.00	0.10	0.00
C7	2022-08-03	0.00	0.00	0.31	0.00	0.31	0.51	5.24	0.00	0.21	2.05	0.00
C7	2022-08-04	0.00	0.00	0.20	0.00	0.41	1.53	5.11	0.00	0.00	2.04	0.00
C7	2022-08-05	0.00	0.00	0.81	0.10	0.71	2.33	15.84	0.00	0.30	4.16	0.00
C7	2022-08-06	0.00	0.00	0.00	0.30	0.30	0.51	1.92	0.00	0.00	0.71	0.00
C7	2022-08-07	0.00	0.00	0.20	0.20	0.20	1.11	8.34	0.00	0.00	2.91	0.00
C7	2022-08-08	0.10	0.00	0.60	0.00	0.40	2.80	12.40	0.00	0.00	2.60	0.00
C7	2022-08-09	0.00	0.00	0.00	0.30	0.30	3.48	11.82	0.00	0.20	3.58	0.00
C7	2022-08-10	0.00	0.00	0.10	0.00	0.30	0.49	5.43	0.00	0.00	1.58	0.00
C7	2022-08-11	0.00	0.00	0.29	0.10	0.20	0.88	16.89	0.00	0.00	4.22	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C7	2022-08-12	0.00	0.00	0.68	0.10	0.29	1.37	15.80	0.00	0.20	3.02	0.00
C7	2022-08-13	0.00	0.00	0.00	0.00	0.00	0.68	0.19	0.00	0.00	0.39	0.00
C7	2022-08-14	0.00	0.00	0.00	0.00	0.00	0.77	1.26	0.00	0.00	0.97	0.00
C7	2022-08-15	0.00	0.00	0.19	0.00	0.19	1.73	11.54	0.00	0.00	1.83	0.00
C7	2022-08-16	0.00	0.00	0.00	0.00	0.00	1.82	5.73	0.00	0.10	3.06	0.00
C7	2022-08-17	0.00	0.00	0.09	0.09	1.42	1.42	17.28	0.00	0.00	4.37	0.00
C7	2022-08-18	0.00	0.00	0.00	0.00	0.00	0.47	3.59	0.00	0.00	1.04	0.00
C7	2022-08-19	0.00	0.00	0.28	0.00	0.47	0.94	2.91	0.00	0.00	1.13	0.00
C7	2022-08-20	0.00	0.00	0.37	0.00	0.37	1.77	15.77	0.00	0.19	3.55	0.00
C7	2022-08-21	0.00	0.00	0.65	0.09	0.93	1.58	12.61	0.00	0.37	3.99	0.00
C12	2022-06-08	0.24	0.00	3.30	0.00	0.59	1.41	51.28	0.00	0.12	1.53	0.00
C12	2022-06-09	0.24	0.00	5.31	0.00	1.42	0.24	75.35	0.00	0.00	0.83	0.00
C12	2022-06-10	0.12	0.00	0.59	0.00	0.47	0.24	8.27	0.00	0.00	0.35	0.00
C12	2022-06-11	0.12	0.00	1.90	0.00	1.19	0.12	9.25	0.00	0.00	0.12	0.00
C12	2022-06-12	0.12	0.00	0.36	0.00	0.59	0.00	5.47	0.00	0.00	0.48	0.00
C12	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.12	0.00
C12	2022-06-14	0.00	0.00	0.48	0.00	0.71	0.24	2.14	0.00	0.00	0.60	0.00
C12	2022-06-15	0.00	0.00	0.12	0.00	0.00	0.00	3.45	0.00	0.00	0.36	0.00
C12	2022-06-16	0.00	0.00	0.24	0.00	0.24	0.24	0.72	0.00	0.00	0.00	0.00
C12	2022-06-17	0.00	0.00	0.36	0.00	0.24	0.48	1.91	0.00	0.00	0.48	0.00
C12	2022-06-18	0.00	0.00	0.00	0.00	0.24	0.12	2.15	0.00	0.00	0.24	0.00
C12	2022-06-19	0.00	0.00	0.36	0.00	0.84	0.96	9.80	0.00	0.00	0.72	0.00
C12	2022-06-20	0.00	0.00	1.20	0.00	0.36	0.60	6.10	0.00	0.12	0.72	0.00
C12	2022-06-21	0.00	0.00	0.48	0.00	0.24	0.36	0.12	0.00	0.00	0.00	0.00
C12	2022-06-22	0.00	0.00	0.24	0.00	0.12	0.48	0.48	0.00	0.00	0.48	0.00
C12	2022-06-23	0.00	0.00	0.00	0.00	0.24	0.00	1.43	0.00	0.00	0.24	0.00
C12	2022-06-24	0.00	0.00	0.24	0.00	0.12	0.12	2.27	0.00	0.00	0.12	0.00
C12	2022-06-25	0.00	0.00	0.72	0.00	0.24	0.60	4.89	0.00	0.12	1.31	0.00
C12	2022-06-26	0.00	0.00	0.71	0.00	0.48	0.12	0.60	0.00	0.00	0.00	0.00
C12	2022-06-27	0.00	0.00	0.12	0.00	0.12	0.00	1.43	0.00	0.00	0.48	0.00
C12	2022-06-28	0.00	0.00	0.59	0.00	0.36	0.12	2.85	0.00	0.00	0.59	0.00
C12	2022-06-29	0.00	0.00	0.95	0.00	0.12	0.47	2.25	0.00	0.00	0.00	0.00
C12	2022-06-30	0.00	0.00	0.12	0.00	0.24	0.00	1.42	0.00	0.00	0.00	0.00
C12	2022-07-01	0.00	0.00	0.24	0.00	0.12	0.00	0.24	0.00	0.00	0.00	0.00
C12	2022-07-02	0.00	0.00	0.00	0.00	0.71	0.00	0.59	0.00	0.00	0.35	0.00
C12	2022-07-03	0.00	0.00	0.12	0.00	0.35	0.00	0.82	0.00	0.00	0.12	0.00
C12	2022-07-04	0.00	0.00	0.12	0.00	0.47	0.12	1.41	0.00	0.00	0.70	0.00
C12	2022-07-05	0.00	0.00	0.12	0.00	0.00	0.00	1.05	0.00	0.00	0.12	0.00
C12	2022-07-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C12	2022-07-07	0.00	0.00	0.23	0.00	0.93	0.00	0.35	0.00	0.00	0.23	0.00
C12	2022-07-08	0.12	0.00	0.93	0.00	0.58	0.35	8.46	0.00	0.00	1.04	0.00
C12	2022-07-09	0.00	0.00	0.46	0.00	0.58	0.35	1.85	0.00	0.00	0.69	0.00
C12	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C12	2022-07-11	0.11	0.00	1.03	0.00	0.34	0.46	2.75	0.00	0.00	0.23	0.00
C12	2022-07-12	0.00	0.00	0.46	0.00	0.46	0.23	0.91	0.00	0.00	0.11	0.00
C12	2022-07-13	0.00	0.00	0.11	0.00	0.57	0.23	2.28	0.00	0.00	0.11	0.00
C12	2022-07-14	0.00	0.00	0.34	0.00	0.23	0.34	1.93	0.00	0.11	0.11	0.00
C12	2022-07-15	0.00	0.00	0.91	0.11	0.68	0.57	2.60	0.00	0.11	0.34	0.00
C12	2022-07-16	0.11	0.00	0.79	0.00	1.01	1.13	7.43	0.00	0.00	0.56	0.00
C12	2022-07-17	0.00	0.00	0.00	0.00	0.00	1.12	0.11	0.00	0.00	0.34	0.00
C12	2022-07-18	0.00	0.00	1.34	0.00	0.33	2.23	14.50	0.00	2.45	3.90	0.00
C12	2022-07-19	0.11	0.00	2.00	0.00	0.67	1.67	15.89	0.00	0.33	3.33	0.00
C12	2022-07-20	0.00	0.00	3.98	0.00	1.66	0.77	8.73	0.00	0.33	0.99	0.00
C12	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.22	0.11	0.00	0.00	0.00	0.00
C12	2022-07-22	0.11	0.00	2.85	0.00	2.85	0.55	4.16	0.00	0.22	0.55	0.00
C12	2022-07-23	0.00	0.00	0.00	0.00	0.11	0.00	0.98	0.00	0.00	0.33	0.00
C12	2022-07-24	0.00	0.00	0.22	0.00	0.87	0.65	1.63	0.00	0.22	0.22	0.00
C12	2022-07-25	0.11	0.00	1.83	0.00	1.08	0.54	9.48	0.00	0.32	1.72	0.00
C12	2022-07-26	0.11	0.00	1.40	0.00	3.11	0.64	8.59	0.00	0.00	0.64	0.00
C12	2022-07-27	0.00	0.00	0.85	0.11	1.07	0.11	2.88	0.00	0.00	0.21	0.00
C12	2022-07-28	0.00	0.00	3.40	0.21	1.70	2.12	13.17	0.00	0.21	1.38	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C12	2022-07-29	0.00	0.00	1.69	0.21	2.33	1.38	4.44	0.00	0.11	0.63	0.00
C12	2022-07-30	0.00	0.00	0.84	0.00	0.63	0.21	3.68	0.00	0.00	0.74	0.00
C12	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
C13	2022-06-10	0.00	0.00	0.12	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
C13	2022-06-11	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-18	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
C13	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-22	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
C13	2022-06-23	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
C13	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
C13	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
C13	2022-07-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
C13	2022-07-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-08	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
C13	2022-07-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-15	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
C13	2022-07-16	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-19	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-29	0.00	0.00	0.00	0.00	0.11	0.00	0.21	0.00	0.00	0.21	0.00
C13	2022-07-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-08-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-08-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-08-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-08-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-08-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-08-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C13	2022-08-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2022-08-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C14	2022-07-04	0.00	0.00	0.23	0.00	0.23	1.17	2.11	0.00	0.00	1.29	0.00
C14	2022-07-05	0.00	0.00	0.58	0.00	0.12	0.70	1.40	0.00	0.00	1.05	0.00
C14	2022-07-06	0.00	0.00	0.12	0.00	0.00	0.70	3.74	0.00	0.00	1.05	0.00
C14	2022-07-07	0.00	0.00	0.47	0.00	0.12	0.12	1.05	0.00	0.12	0.12	0.00
C14	2022-07-08	0.00	0.00	1.04	0.00	0.23	0.81	3.24	0.00	0.00	1.04	0.00
C14	2022-07-09	0.00	0.00	0.23	0.00	0.12	1.27	5.78	0.00	0.00	1.39	0.00
C14	2022-07-10	0.12	0.00	0.58	0.00	0.00	1.15	2.88	0.00	0.12	0.81	0.00
C14	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.11	0.00
C14	2022-07-12	0.00	0.00	0.23	0.00	0.00	0.80	2.29	0.00	0.00	0.46	0.00
C14	2022-07-13	0.00	0.00	0.00	0.00	0.23	0.80	5.01	0.00	0.00	0.57	0.00
C14	2022-07-14	0.00	0.00	0.00	0.00	1.02	2.38	6.24	0.00	0.00	1.25	0.00
C14	2022-07-15	0.11	0.00	0.34	0.00	0.68	0.79	3.62	0.00	0.00	0.68	0.00
C14	2022-07-16	0.00	0.00	1.91	0.00	0.68	0.90	5.29	0.00	0.00	1.24	0.00
C14	2022-07-17	0.00	0.00	0.90	0.00	0.90	1.68	12.65	0.00	0.11	1.90	0.00
C14	2022-07-18	0.22	0.00	1.12	0.00	0.78	1.56	2.12	0.00	0.00	1.90	0.00
C14	2022-07-19	0.00	0.00	1.00	0.00	0.89	2.22	6.78	0.00	0.00	2.67	0.00
C14	2022-07-20	0.00	0.00	2.21	0.00	1.44	1.99	3.43	0.00	0.00	2.21	0.00
C14	2022-07-21	0.00	0.00	0.44	0.00	0.00	1.65	2.31	0.00	0.11	1.10	0.00
C14	2022-07-22	0.00	0.00	0.11	0.00	0.11	1.64	1.53	0.00	0.00	2.08	0.00
C14	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.22	0.11	0.00	0.00	0.11	0.00
C14	2022-07-24	0.00	0.00	0.11	0.00	0.00	1.30	2.60	0.00	0.33	2.28	0.00
C14	2022-07-25	0.00	0.00	0.11	0.00	0.00	2.91	7.00	0.00	0.22	2.69	0.00
C14	2022-07-26	0.00	0.00	0.32	0.00	0.11	1.50	3.43	0.00	0.00	1.82	0.00
C14	2022-07-27	0.00	0.00	0.00	0.00	0.00	1.39	2.56	0.00	0.00	1.28	0.00
C14	2022-07-28	0.00	0.00	0.11	0.00	0.21	0.85	5.10	0.00	0.00	1.70	0.00
C14	2022-07-29	0.00	0.00	0.63	0.00	0.11	2.54	7.20	0.00	0.21	2.65	0.00
C14	2022-07-30	0.00	0.00	0.11	0.00	0.00	0.21	0.32	0.00	0.00	0.42	0.00
C14	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.23	0.00
C15	2022-06-09	0.00	0.00	2.24	0.00	0.94	2.01	23.27	0.00	0.12	3.19	0.00
C15	2022-06-10	0.00	0.00	1.42	0.00	0.59	0.71	18.85	0.00	0.47	2.96	0.00
C15	2022-06-11	0.00	0.00	0.36	0.00	0.48	1.66	1.90	0.00	0.00	0.12	0.00
C15	2022-06-12	0.00	0.00	0.71	0.00	0.59	7.72	19.48	0.00	2.49	17.94	0.00
C15	2022-06-13	0.00	0.00	0.00	0.00	0.24	2.38	8.33	0.00	0.60	3.21	0.00
C15	2022-06-14	0.00	0.00	0.36	0.00	0.36	0.60	8.81	0.00	0.36	2.02	0.00
C15	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.12	0.60	0.00	0.00	0.24	0.00
C15	2022-06-16	0.00	0.00	0.12	0.00	0.12	0.95	3.34	0.00	0.12	1.31	0.00
C15	2022-06-17	0.00	0.00	0.24	0.00	0.72	2.15	2.15	0.00	0.00	1.43	0.00
C15	2022-06-18	0.00	0.00	0.72	0.00	1.43	1.91	2.51	0.00	0.12	0.96	0.00
C15	2022-06-19	0.00	0.00	0.36	0.00	1.79	0.96	3.71	0.00	0.00	0.84	0.00
C15	2022-06-20	0.00	0.00	0.33	0.00	0.98	1.31	3.28	0.00	0.00	0.33	0.00
C16	2022-06-09	0.00	0.00	0.12	0.00	0.12	4.25	3.54	0.00	0.00	2.60	0.00
C16	2022-06-10	0.00	0.00	0.12	0.00	0.47	6.38	5.20	0.00	0.12	2.48	0.00
C16	2022-06-11	0.00	0.00	0.00	0.00	0.12	2.61	0.95	0.00	0.00	0.36	0.00
C16	2022-06-12	0.00	0.00	0.00	0.00	0.12	1.90	0.48	0.00	0.00	0.24	0.00
C16	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.36	0.00
C16	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.83	0.48	0.00	0.00	0.95	0.00
C16	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.24	0.00
C16	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.24	0.48	0.00	0.00	0.36	0.00
C16	2022-06-17	0.00	0.00	0.00	0.00	0.12	0.83	1.91	0.00	0.00	1.19	0.00
C16	2022-06-18	0.00	0.00	0.00	0.00	0.00	0.24	1.08	0.00	0.00	0.60	0.00
C16	2022-06-19	0.00	0.00	0.00	0.00	0.00	0.84	3.71	0.00	0.12	0.72	0.00
C16	2022-06-20	0.00	0.00	0.00	0.00	0.00	0.84	1.79	0.00	0.00	0.24	0.00
C16	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.84	0.12	0.00	0.00	0.12	0.00
C16	2022-06-22	0.00	0.00	0.00	0.00	0.12	1.43	1.55	0.00	0.00	0.96	0.00
C16	2022-06-23	0.00	0.00	0.00	0.00	0.12	2.39	2.27	0.00	0.00	2.39	0.00
C16	2022-06-24	0.00	0.00	0.00	0.00	0.12	0.60	0.36	0.00	0.00	0.48	0.00
C16	2022-06-25	0.00	0.00	0.12	0.00	0.12	2.98	0.72	0.00	0.00	1.79	0.00
C16	2022-06-26	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.36	0.00
C16	2022-06-27	0.00	0.00	0.00	0.00	0.24	15.12	2.74	0.00	0.12	3.21	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C16	2022-06-28	0.00	0.00	0.00	0.00	0.12	3.68	0.71	0.00	0.00	1.66	0.00
C16	2022-06-29	0.00	0.00	0.00	0.00	0.00	5.22	1.30	0.00	0.00	2.73	0.00
C16	2022-06-30	0.00	0.00	0.12	0.00	0.00	2.72	0.59	0.00	0.00	1.07	0.00
C16	2022-07-01	0.00	0.00	0.35	0.00	0.71	4.13	3.43	0.00	0.00	2.36	0.00
C16	2022-07-02	0.00	0.00	0.00	0.00	0.24	3.78	2.83	0.00	0.24	1.65	0.00
C16	2022-07-03	0.00	0.00	0.00	0.00	0.35	2.12	2.00	0.00	0.00	0.82	0.00
C16	2022-07-04	0.00	0.00	0.00	0.00	0.12	1.29	1.17	0.00	0.00	0.82	0.00
C16	2022-07-05	0.00	0.00	0.00	0.00	0.12	3.04	2.69	0.00	0.00	2.11	0.00
C16	2022-07-06	0.00	0.00	0.00	0.00	0.00	4.32	1.98	0.00	0.00	1.28	0.00
C16	2022-07-07	0.00	0.00	0.00	0.00	0.12	0.58	0.00	0.00	0.00	0.47	0.00
C16	2022-07-08	0.00	0.00	0.00	0.00	0.00	1.04	2.32	0.00	0.00	1.85	0.00
C16	2022-07-09	0.00	0.00	0.23	0.00	0.23	0.69	0.35	0.00	0.00	0.12	0.00
C16	2022-07-10	0.00	0.00	0.00	0.00	0.12	2.19	2.76	0.00	0.00	1.96	0.00
C16	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.11	0.23	0.00	0.00	0.11	0.00
C16	2022-07-12	0.00	0.00	0.00	0.00	0.00	0.69	0.69	0.00	0.00	0.23	0.00
C16	2022-07-13	0.00	0.00	0.00	0.00	0.00	1.02	2.28	0.00	0.00	0.68	0.00
C16	2022-07-14	0.00	0.00	0.00	0.00	0.11	0.91	1.59	0.00	0.00	0.68	0.00
C16	2022-07-15	0.00	0.00	0.11	0.00	0.11	1.47	1.36	0.00	0.00	1.02	0.00
C16	2022-07-16	0.00	0.00	0.11	0.00	0.34	1.24	1.46	0.00	0.00	1.46	0.00
C16	2022-07-17	0.00	0.00	0.11	0.00	0.22	2.35	3.25	0.00	0.11	1.68	0.00
C16	2022-07-18	0.00	0.00	0.00	0.00	0.00	2.23	1.23	0.00	0.22	2.01	0.00
C16	2022-07-19	0.00	0.00	0.00	0.11	0.00	4.78	9.22	0.00	0.56	3.89	0.00
C16	2022-07-20	0.00	0.00	0.22	0.00	0.44	3.20	5.08	0.00	0.77	2.87	0.00
C16	2022-07-21	0.00	0.00	0.11	0.00	0.11	1.54	2.20	0.00	0.00	1.54	0.00
C16	2022-07-22	0.00	0.00	0.33	0.00	0.11	0.22	2.30	0.00	0.00	0.55	0.00
C16	2022-07-23	0.00	0.00	0.00	0.00	0.54	0.87	1.63	0.00	0.22	1.63	0.00
C16	2022-07-24	0.00	0.00	0.11	0.00	0.33	2.71	6.40	0.00	0.22	2.82	0.00
C16	2022-07-25	0.00	0.00	0.11	0.00	0.11	0.97	2.26	0.00	0.11	1.94	0.00
C16	2022-07-26	0.00	0.00	0.11	0.00	0.21	1.50	2.90	0.00	0.00	2.68	0.00
C16	2022-07-27	0.00	0.00	0.53	0.00	0.85	0.53	1.92	0.00	0.00	0.85	0.00
C16	2022-07-28	0.00	0.00	0.64	0.00	1.17	1.38	2.34	0.00	0.00	1.38	0.00
C16	2022-07-29	0.00	0.00	0.63	0.00	0.95	1.06	5.19	0.00	0.00	1.69	0.00
C16	2022-07-30	0.00	0.00	0.21	0.00	0.53	1.37	3.78	0.00	0.11	2.10	0.00
C16	2022-07-31	0.00	0.00	0.27	0.00	0.82	0.00	0.54	0.00	0.00	0.27	0.00
C17	2022-06-07	0.12	0.00	0.12	0.00	0.00	0.70	0.47	0.00	0.00	0.12	0.00
C17	2022-06-08	0.00	0.00	0.59	0.00	0.12	1.30	1.30	0.00	0.00	0.00	0.00
C17	2022-06-09	0.00	0.00	0.71	0.00	0.94	1.54	1.77	0.00	0.00	0.24	0.00
C17	2022-06-10	0.00	0.00	0.12	0.00	0.12	1.54	1.30	0.00	0.00	0.12	0.00
C17	2022-06-11	0.00	0.00	0.36	0.00	0.00	0.59	2.49	0.00	0.00	0.00	0.00
C17	2022-06-12	0.00	0.00	0.12	0.00	0.00	1.07	3.09	0.00	0.12	0.36	0.00
C17	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.48	6.06	0.00	0.00	0.00	0.00
C17	2022-06-14	0.00	0.00	0.12	0.00	0.00	0.95	7.62	0.00	0.48	1.55	0.00
C17	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.00	1.67	0.00	0.00	0.12	0.00
C17	2022-06-16	0.00	0.00	0.12	0.00	0.00	0.95	1.07	0.00	0.00	0.24	0.00
C17	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.48	5.96	0.00	0.00	0.00	0.00
C17	2022-06-18	0.00	0.00	0.24	0.00	0.00	1.20	13.86	0.00	0.72	1.43	0.00
C17	2022-06-19	0.00	0.00	0.00	0.00	0.00	1.91	71.83	0.00	0.36	2.75	0.00
C17	2022-06-20	0.00	0.00	0.36	0.00	0.00	3.82	29.52	0.00	0.12	4.54	0.00
C17	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.36	1.67	0.00	0.00	0.24	0.00
C17	2022-06-22	0.00	0.00	0.00	0.00	0.00	2.39	20.44	0.00	0.24	1.79	0.00
C17	2022-06-23	0.00	0.00	0.24	0.00	0.00	1.08	11.83	0.00	0.00	0.48	0.00
C17	2022-06-24	0.00	0.00	0.00	0.00	0.00	1.19	7.51	0.00	0.00	0.72	0.00
C17	2022-06-25	0.00	0.00	0.12	0.00	0.12	3.70	17.42	0.00	0.12	1.91	0.00
C17	2022-06-26	0.00	0.00	0.00	0.00	0.00	1.07	6.19	0.00	0.00	0.83	0.00
C17	2022-06-27	0.00	0.00	0.12	0.00	0.00	2.98	7.02	0.00	0.12	0.95	0.00
C17	2022-06-28	0.00	0.00	0.12	0.00	0.24	1.66	1.66	0.00	0.00	0.24	0.00
C17	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.36	6.40	0.00	0.00	1.07	0.00
C17	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.24	1.78	0.00	0.00	0.36	0.00
C17	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.24	3.43	0.00	0.12	0.35	0.00
C17	2022-07-02	0.00	0.00	0.24	0.00	0.24	3.78	6.61	0.00	0.12	2.83	0.00
C17	2022-07-03	0.00	0.00	0.24	0.00	0.00	0.59	1.53	0.00	0.00	0.12	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C17	2022-07-04	0.00	0.00	0.35	0.00	0.23	1.88	9.63	0.00	0.12	2.23	0.00
C17	2022-07-05	0.00	0.00	0.23	0.00	0.00	1.05	9.71	0.00	0.00	0.70	0.00
C17	2022-07-06	0.00	0.00	0.00	0.00	0.12	1.40	6.19	0.00	0.00	0.58	0.00
C17	2022-07-07	0.23	0.00	0.12	0.12	0.00	0.93	1.63	0.00	0.00	0.35	0.00
C17	2022-07-08	0.00	0.00	0.46	0.00	0.23	4.52	24.56	0.00	0.69	3.47	0.00
C17	2022-07-09	0.00	0.00	0.35	0.00	0.69	4.51	22.08	0.00	0.00	1.62	0.00
C17	2022-07-10	0.00	0.00	0.00	0.00	0.12	3.92	25.57	0.00	0.00	3.45	0.00
C17	2022-07-11	0.00	0.00	0.11	0.00	0.69	2.64	10.55	0.00	0.00	0.92	0.00
C17	2022-07-12	0.46	0.00	0.00	0.00	0.23	1.60	2.86	0.00	0.00	0.57	0.00
C17	2022-07-13	0.00	0.00	0.11	0.00	0.00	6.26	25.50	0.00	0.00	1.71	0.00
C17	2022-07-14	0.00	0.00	0.68	0.00	0.11	9.53	35.73	0.00	0.23	2.84	0.00
C17	2022-07-15	0.11	0.00	0.34	0.11	0.11	4.98	10.19	0.00	0.11	1.25	0.00
C17	2022-07-16	0.00	0.00	0.56	0.00	0.68	8.10	43.11	0.00	0.56	5.40	0.00
C17	2022-07-17	0.11	0.00	0.22	0.00	0.22	4.03	15.11	0.00	0.45	3.36	0.00
C17	2022-07-18	0.00	0.00	0.11	0.00	0.22	3.23	10.37	0.00	0.00	1.45	0.00
C17	2022-07-19	0.00	0.00	0.89	0.00	0.33	6.33	55.55	0.00	0.44	4.00	0.00
C17	2022-07-20	0.00	0.00	0.22	0.00	0.22	5.41	21.21	0.00	0.33	2.21	0.00
C17	2022-07-21	0.00	0.00	0.11	0.00	0.11	3.41	13.76	0.00	1.10	4.40	0.00
C17	2022-07-22	0.00	0.00	0.44	0.00	0.11	4.71	10.51	0.00	0.00	1.31	0.00
C17	2022-07-23	0.00	0.00	0.22	0.00	0.00	3.70	3.70	0.00	0.22	0.54	0.00
C17	2022-07-24	0.00	0.00	0.22	0.00	0.33	6.73	9.87	0.00	0.43	2.17	0.00
C17	2022-07-25	0.11	0.00	0.86	0.00	0.32	9.26	35.76	0.00	0.75	4.95	0.00
C17	2022-07-26	0.00	0.00	0.21	0.00	0.21	16.53	28.01	0.00	0.11	3.01	0.00
C17	2022-07-27	0.00	0.00	0.21	0.00	0.43	5.44	14.63	0.00	0.11	1.49	0.00
C17	2022-07-28	0.00	0.00	0.64	0.11	0.21	16.78	14.44	0.00	0.21	4.14	0.00
C17	2022-07-29	0.21	0.00	0.21	0.00	0.32	6.62	31.17	0.00	0.21	3.52	0.00
C17	2022-07-30	0.30	0.00	2.13	0.00	1.22	5.03	19.97	0.00	0.46	1.98	0.00
C10	2022-07-08	0.00	0.00	0.00	0.00	0.00	0.93	2.55	0.00	0.00	0.93	0.00
C10	2022-07-09	0.00	0.00	0.35	0.00	0.12	1.50	3.70	0.00	0.00	1.27	0.00
C10	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.00	0.00	0.23	0.00
C10	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.92	7.80	0.00	0.00	1.38	0.00
C10	2022-07-12	0.00	0.00	0.00	0.00	0.11	0.11	0.57	0.00	0.00	0.11	0.00
C10	2022-07-13	0.11	0.00	0.11	0.00	0.00	1.14	3.64	0.00	0.00	0.34	0.00
C10	2022-07-14	0.11	0.00	1.13	0.00	0.57	1.59	8.28	0.00	0.00	1.70	0.00
C10	2022-07-15	0.00	0.00	0.23	0.00	0.23	1.13	4.53	0.00	0.00	1.02	0.00
C10	2022-07-16	0.00	0.00	0.11	0.00	0.23	1.58	8.10	0.00	0.00	1.46	0.00
C10	2022-07-17	0.00	0.00	0.00	0.00	0.00	0.56	1.01	0.00	0.00	0.78	0.00
C10	2022-07-18	0.00	0.00	0.00	0.00	0.11	0.22	2.56	0.00	0.00	0.89	0.00
C10	2022-07-19	0.00	0.00	0.00	0.00	0.00	1.44	7.11	0.00	0.00	3.11	0.00
C10	2022-07-20	0.00	0.00	0.11	0.00	0.11	1.77	6.52	0.00	0.44	2.32	0.00
C10	2022-07-21	0.00	0.00	0.44	0.00	0.11	3.96	7.16	0.00	0.44	6.16	0.00
C10	2022-07-22	0.00	0.00	0.00	0.11	0.22	4.27	5.26	0.00	0.00	2.41	0.00
C10	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.65	0.54	0.00	0.00	0.65	0.00
C10	2022-07-24	0.00	0.00	0.00	0.00	0.00	0.33	3.80	0.00	0.00	1.19	0.00
C10	2022-07-25	0.00	0.00	1.51	0.00	0.43	4.31	10.13	0.00	0.65	3.77	0.00
C10	2022-07-26	0.00	0.00	0.00	0.00	0.00	2.68	9.34	0.00	0.64	2.47	0.00
C10	2022-07-27	0.00	0.00	0.00	0.00	0.21	1.81	14.09	0.00	0.43	5.23	0.00
C10	2022-07-28	0.00	0.00	0.32	0.00	0.11	4.46	37.91	0.00	1.17	11.47	0.00
C10	2022-07-29	0.00	0.00	0.32	0.00	0.32	6.98	44.13	0.00	2.22	16.61	0.00
C10	2022-07-30	0.00	0.00	0.00	0.00	0.00	3.15	17.34	0.00	0.11	6.41	0.00
C10	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.10	0.31	0.00
C10	2022-08-01	0.00	0.00	0.21	0.00	0.10	1.04	5.30	0.00	0.10	1.25	0.00
C10	2022-08-02	0.00	0.00	0.00	0.00	0.10	2.59	12.41	0.00	0.10	3.72	0.00
C10	2022-08-03	0.00	0.00	0.10	0.21	0.00	1.03	10.38	0.00	0.41	2.47	0.00
C10	2022-08-04	0.00	0.00	0.51	0.00	0.41	3.58	10.65	0.00	0.00	2.87	0.00
C10	2022-08-05	0.00	0.00	6.30	0.10	3.66	2.14	30.51	0.00	0.51	5.59	0.00
C10	2022-08-06	0.00	0.00	0.10	0.00	0.30	0.61	4.75	0.00	0.00	2.12	0.00
C10	2022-08-07	0.00	0.00	0.10	0.00	0.50	1.31	16.88	0.00	0.00	1.61	0.00
C10	2022-08-08	0.00	0.00	0.30	0.00	0.30	4.00	23.30	0.00	0.10	4.60	0.00
C10	2022-08-09	0.00	0.00	0.80	0.10	0.20	1.89	12.64	0.00	0.60	3.38	0.00
C10	2022-08-10	0.00	0.00	0.10	0.00	0.00	0.89	3.95	0.00	0.10	1.88	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C10	2022-08-11	0.00	0.00	0.89	0.20	0.49	0.89	19.87	0.00	0.20	3.34	0.00
C10	2022-08-12	0.00	0.00	0.29	0.00	0.39	1.76	7.23	0.00	0.10	0.98	0.00
C10	2022-08-13	0.00	0.00	0.00	0.00	0.00	0.19	0.29	0.00	0.00	0.10	0.00
C10	2022-08-14	0.00	0.00	0.10	0.00	0.29	1.64	5.99	0.00	0.19	2.51	0.00
C10	2022-08-15	0.10	0.00	0.48	0.00	0.86	1.82	18.05	0.00	0.10	2.59	0.00
C10	2022-08-16	0.00	0.00	0.10	0.00	0.10	3.15	12.71	0.00	0.00	2.87	0.00
C10	2022-08-17	0.00	0.00	0.85	0.00	0.47	1.61	5.41	0.00	0.00	1.99	0.00
C10	2022-08-18	0.00	0.00	0.00	0.00	0.00	0.94	2.83	0.00	0.00	0.66	0.00
C19	2022-06-10	0.00	0.00	0.24	0.00	0.12	0.35	0.71	0.00	0.00	0.24	0.00
C19	2022-06-11	0.00	0.00	0.00	0.00	0.00	0.12	0.36	0.00	0.00	0.00	0.00
C19	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00
C19	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C19	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.12	0.48	0.00	0.00	0.12	0.00
C19	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C19	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C19	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.24	0.00
C19	2022-06-18	0.00	0.00	0.00	0.00	0.00	0.36	7.89	0.00	0.00	0.96	0.00
C19	2022-06-19	0.00	0.00	0.00	0.00	0.00	1.79	16.02	0.00	0.00	1.31	0.00
C19	2022-06-20	0.00	0.00	0.00	0.00	0.00	0.72	5.26	0.00	0.00	0.36	0.00
C19	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.12	0.00
C19	2022-06-22	0.00	0.00	0.00	0.00	0.12	0.60	5.38	0.00	0.12	1.08	0.00
C19	2022-06-23	0.00	0.00	0.00	0.00	0.00	1.91	1.91	0.00	0.00	0.12	0.00
C19	2022-06-24	0.00	0.00	0.00	0.00	0.00	0.60	3.70	0.00	0.00	1.31	0.00
C19	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.95	4.41	0.00	0.00	1.19	0.00
C19	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C19	2022-06-27	0.00	0.00	0.24	0.00	0.24	3.33	9.52	0.00	0.00	3.21	0.00
C19	2022-06-28	0.00	0.00	0.00	0.00	0.12	0.12	0.83	0.00	0.00	0.12	0.00
C19	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.24	0.36	0.00	0.12	0.00	0.00
C19	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
C19	2022-07-01	0.00	0.00	0.00	0.00	0.12	1.06	1.18	0.00	0.00	0.94	0.00
C19	2022-07-02	0.00	0.00	0.12	0.00	0.00	0.24	0.83	0.00	0.00	0.24	0.00
C19	2022-07-03	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
C19	2022-07-04	0.00	0.00	0.00	0.00	0.00	0.23	0.59	0.00	0.00	1.29	0.00
C19	2022-07-05	0.12	0.00	0.23	0.00	0.12	0.82	3.27	0.00	0.00	0.70	0.00
C21	2022-07-05	0.00	0.00	0.35	0.00	0.47	0.93	5.25	0.00	0.00	1.98	0.00
C21	2022-07-06	0.00	0.00	0.00	0.00	0.00	0.23	0.12	0.00	0.00	0.47	0.00
C21	2022-07-07	0.00	0.00	0.00	0.00	0.00	0.81	1.74	0.00	0.00	0.00	0.00
C21	2022-07-08	0.00	0.00	0.00	0.00	0.12	1.50	5.20	0.00	0.00	0.12	0.00
C21	2022-07-09	0.00	0.00	0.35	0.00	0.12	0.92	2.31	0.00	0.00	1.04	0.00
C21	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.00	2.41	0.00	0.00	0.92	0.00
C21	2022-07-11	0.00	0.00	0.00	0.00	0.57	2.52	3.32	0.00	0.00	1.15	0.00
C21	2022-07-12	0.00	0.00	0.34	0.00	0.00	1.14	3.88	0.00	0.00	0.68	0.00
C21	2022-07-13	0.00	0.00	0.11	0.00	0.00	1.37	3.53	0.00	0.00	1.14	0.00
C21	2022-07-14	0.00	0.00	0.79	0.00	1.13	1.36	7.37	0.00	0.00	0.79	0.00
C21	2022-07-15	0.00	0.00	0.45	0.45	0.45	1.47	4.63	0.00	0.00	2.03	0.00
C21	2022-07-16	0.00	0.00	0.00	0.00	0.11	1.57	12.47	0.00	0.00	3.71	0.00
C21	2022-07-17	0.00	0.00	0.00	0.11	0.22	0.34	1.79	0.00	0.00	0.78	0.00
C21	2022-07-18	0.11	0.00	0.22	0.00	0.89	1.00	4.01	0.00	0.00	0.45	0.00
C21	2022-07-19	0.11	0.00	0.33	0.00	1.33	2.55	12.09	0.00	0.33	4.44	0.00
C21	2022-07-20	0.00	0.00	0.22	0.66	1.32	4.74	40.37	0.00	0.77	24.15	0.00
C21	2022-07-21	0.00	0.00	0.00	0.55	0.66	1.76	5.71	0.00	0.00	1.65	0.00
C21	2022-07-22	0.00	0.00	0.22	0.77	2.30	2.96	4.71	0.00	0.00	1.75	0.00
C21	2022-07-23	0.00	0.00	0.76	0.22	0.54	0.87	2.72	0.00	0.00	0.76	0.00
C21	2022-07-24	0.00	0.00	0.11	0.32	1.95	1.95	9.10	0.00	0.11	2.71	0.00
C21	2022-07-25	0.00	0.00	0.11	0.11	0.75	1.72	18.85	0.00	0.00	3.02	0.00
C21	2022-07-26	0.00	0.00	0.00	1.61	2.36	1.29	15.54	0.00	0.64	4.61	0.00
C21	2022-07-27	0.00	0.00	0.00	0.00	0.11	2.03	1.92	0.00	0.00	0.43	0.00
C21	2022-07-28	0.00	0.00	2.23	1.06	1.70	2.97	11.45	0.00	0.11	3.07	0.00
C21	2022-07-29	0.00	0.00	0.00	0.11	0.11	1.06	16.58	0.00	0.21	3.17	0.00
C21	2022-07-30	0.00	0.00	0.00	0.00	0.10	2.94	4.41	0.00	0.00	1.57	0.00
C21	2022-07-31	0.00	0.00	0.21	0.00	0.10	0.31	0.63	0.00	0.00	0.31	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C21	2022-08-01	0.00	0.00	0.21	1.14	1.04	3.53	11.94	0.00	0.10	2.80	0.00
C21	2022-08-02	0.00	0.00	0.10	0.00	0.31	1.14	5.16	0.00	0.00	1.96	0.00
C21	2022-08-03	0.00	0.00	0.00	0.41	0.62	2.36	4.11	0.00	0.10	2.05	0.00
C21	2022-08-04	0.00	0.00	3.99	0.10	4.09	2.15	9.71	0.00	0.20	2.25	0.00
C21	2022-08-05	0.00	0.00	1.62	0.10	0.30	1.02	6.19	0.00	0.10	1.62	0.00
C21	2022-08-06	0.00	0.00	0.81	1.11	1.41	1.41	9.90	0.00	0.00	2.53	0.00
C21	2022-08-07	0.00	0.00	0.10	0.80	1.11	2.01	12.36	0.00	0.10	3.01	0.00
C21	2022-08-08	0.00	0.00	0.90	0.10	1.70	1.30	5.10	0.00	0.10	2.00	0.00
C21	2022-08-09	0.10	0.00	0.10	0.20	0.10	2.48	8.74	0.00	0.00	2.98	0.00
C21	2022-08-10	0.00	0.00	0.20	0.00	0.69	2.17	7.89	0.00	0.20	1.58	0.00
C21	2022-08-11	0.00	0.00	0.20	0.39	0.59	2.26	8.84	0.00	0.00	1.87	0.00
C21	2022-08-12	0.00	0.00	0.10	0.39	0.39	5.07	22.15	0.00	0.78	4.49	0.00
C21	2022-08-13	0.00	0.00	0.00	0.00	0.00	3.11	3.31	0.00	0.29	3.21	0.00
C21	2022-08-14	0.00	0.00	1.16	0.00	0.87	4.15	10.82	0.00	0.10	3.77	0.00
C21	2022-08-15	0.00	0.00	0.19	0.10	0.19	2.31	17.21	0.00	0.00	3.08	0.00
C21	2022-08-16	0.00	0.00	4.68	0.48	4.87	1.34	6.31	0.00	0.19	1.53	0.00
C21	2022-08-17	0.00	0.00	0.47	0.09	0.66	4.27	15.09	0.00	0.00	6.46	0.00
C21	2022-08-18	0.00	0.00	1.61	0.57	0.85	2.93	8.79	0.00	0.00	2.74	0.00
C21	2022-08-19	0.00	0.00	0.19	0.47	0.47	0.19	3.00	0.00	0.00	1.60	0.00
C21	2022-08-20	0.00	0.00	0.09	0.19	0.65	3.08	25.38	0.00	0.28	5.23	0.00
C21	2022-08-21	0.09	0.00	0.19	0.09	0.37	2.87	24.00	0.00	0.37	5.84	0.00
C20	2022-06-05	0.00	0.00	0.35	0.00	8.29	0.47	2.68	0.00	0.23	1.17	0.00
C20	2022-06-06	0.00	0.00	7.50	0.00	1.41	4.80	7.85	0.00	0.94	4.80	0.00
C20	2022-06-07	0.00	0.00	6.46	0.00	2.11	0.70	6.46	0.00	0.23	0.70	0.00
C20	2022-06-08	0.00	0.00	22.04	0.00	6.72	1.30	11.79	0.00	0.12	2.24	0.00
C20	2022-06-09	0.00	0.00	8.27	0.00	1.89	0.12	2.72	0.00	0.00	0.35	0.00
C20	2022-06-10	0.00	0.00	4.61	0.00	1.77	0.35	2.83	0.00	0.12	0.71	0.00
C20	2022-06-11	0.00	0.00	3.91	0.00	1.42	0.83	3.08	0.00	0.12	0.83	0.00
C20	2022-06-12	0.24	0.00	0.83	0.00	0.59	0.24	0.48	0.00	0.12	0.59	0.00
C20	2022-06-13	0.12	0.00	3.33	0.00	4.87	1.90	5.58	0.00	0.00	0.71	0.00
C20	2022-06-14	0.00	0.00	3.57	0.00	3.93	1.31	6.07	0.00	1.19	1.43	0.00
C20	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
C20	2022-06-16	0.00	0.00	0.48	0.00	0.12	0.24	0.12	0.00	0.00	0.12	0.00
C20	2022-06-17	0.00	0.00	0.72	0.00	0.36	0.60	1.91	0.00	0.00	0.00	0.00
C20	2022-06-18	0.00	0.00	1.08	0.00	1.79	4.54	4.66	0.00	0.00	1.67	0.00
C20	2022-06-19	0.00	0.12	0.84	0.00	0.48	2.39	5.26	0.00	0.00	1.55	0.00
C20	2022-06-20	0.00	0.00	0.72	0.00	0.96	0.36	3.35	0.00	0.00	0.60	0.00
C20	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C20	2022-06-22	0.00	0.00	0.12	0.00	0.00	1.20	5.86	0.00	0.00	1.31	0.00
C20	2022-06-23	0.00	0.00	0.60	0.00	1.08	0.36	0.96	0.00	0.00	0.24	0.00
C20	2022-06-24	0.00	0.00	0.72	0.00	0.83	2.15	3.22	0.00	0.00	1.31	0.00
C20	2022-06-25	0.00	0.12	1.79	0.00	0.95	5.25	4.65	0.00	0.00	2.62	0.00
C20	2022-06-26	0.00	0.00	0.48	0.00	0.00	0.83	0.00	0.00	0.00	0.24	0.00
C20	2022-06-27	0.00	0.00	4.17	0.00	2.38	1.19	3.45	0.00	0.00	1.55	0.00
C20	2022-06-28	0.00	0.00	1.19	0.00	1.31	1.31	2.14	0.00	0.00	0.95	0.00
C20	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
C20	2022-06-30	0.00	0.00	1.66	0.00	0.36	0.83	3.08	0.00	0.00	0.71	0.00
C20	2022-07-01	0.00	0.00	0.94	0.00	0.59	0.35	1.30	0.00	0.00	0.94	0.00
C20	2022-07-02	0.00	0.00	0.47	0.00	0.59	0.94	1.18	0.00	0.00	1.42	0.00
C20	2022-07-03	0.00	0.00	0.59	0.00	0.59	1.76	0.94	0.00	0.00	0.71	0.00
C20	2022-07-04	0.00	0.00	1.64	0.00	1.29	0.70	1.53	0.00	0.00	0.94	0.00
C23	2022-06-04	0.23	0.00	11.79	0.00	7.24	1.17	9.92	0.00	0.00	0.35	0.00
C23	2022-06-05	0.00	0.00	6.20	0.00	2.57	0.94	21.29	0.00	0.12	2.69	0.00
C23	2022-06-06	0.12	0.00	3.52	0.00	2.94	4.11	35.58	0.00	0.00	2.82	0.00
C23	2022-06-07	0.59	0.00	8.59	0.00	3.41	7.76	108.82	0.00	1.06	15.65	0.00
C23	2022-06-08	0.35	0.00	4.13	0.00	1.89	3.43	121.30	0.00	1.30	11.93	0.00
C23	2022-06-09	0.83	0.00	3.19	0.00	1.77	1.54	189.80	0.00	1.77	11.81	0.00
C23	2022-06-10	0.71	0.00	4.14	0.00	1.89	3.08	110.06	0.00	1.07	9.35	0.00
C23	2022-06-11	0.12	0.00	4.63	0.00	3.21	0.36	8.79	0.00	0.00	0.95	0.00
C23	2022-06-12	0.00	0.00	1.90	0.00	0.71	3.09	60.00	0.00	1.54	5.94	0.00
C23	2022-06-13	0.24	0.00	0.71	0.00	0.48	2.02	18.93	0.00	0.12	1.67	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C23	2022-06-14	0.00	0.00	1.07	0.00	0.60	2.62	6.32	0.00	0.24	2.15	0.00
C23	2022-06-15	0.00	0.00	0.00	0.00	0.24	2.27	2.03	0.00	0.12	0.83	0.00
C23	2022-06-16	0.00	0.00	5.38	0.00	2.63	1.43	1.08	0.00	0.00	0.96	0.00
C23	2022-06-17	0.12	0.00	4.54	0.00	2.63	0.24	2.99	0.00	0.00	0.84	0.00
C23	2022-06-18	0.00	0.00	3.82	0.00	0.72	0.00	4.30	0.00	0.00	0.96	0.00
C23	2022-06-19	0.24	0.00	0.72	0.00	0.12	1.56	5.99	0.00	0.00	1.32	0.00
C23	2022-06-20	0.00	0.00	0.48	0.00	0.60	0.84	3.35	0.00	0.12	1.56	0.00
C23	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00
C23	2022-06-22	0.00	0.00	0.12	0.00	0.12	5.62	4.54	0.00	0.36	2.87	0.00
C23	2022-06-23	0.00	0.00	0.60	0.00	0.60	1.91	3.94	0.00	0.12	0.84	0.00
C23	2022-06-24	0.00	0.12	1.44	0.00	0.36	1.20	7.66	0.00	0.00	2.75	0.00
C23	2022-06-25	0.00	0.00	0.00	0.00	0.00	6.93	9.80	0.00	0.00	2.99	0.00
C23	2022-06-26	0.00	0.00	1.55	0.00	1.07	0.12	1.07	0.00	0.00	0.12	0.00
C23	2022-06-27	0.48	0.00	1.79	0.00	1.55	2.74	12.38	0.00	0.12	4.29	0.00
C23	2022-06-28	0.00	0.00	2.38	0.00	0.71	0.95	14.64	0.00	0.00	1.31	0.00
C23	2022-06-29	0.00	0.00	0.00	0.00	0.00	1.19	0.71	0.00	0.00	0.71	0.00
C23	2022-06-30	0.00	0.00	1.42	0.00	0.36	0.24	2.13	0.00	0.00	0.00	0.00
C23	2022-07-01	0.00	0.00	0.71	0.00	0.12	0.36	9.72	0.00	0.12	2.61	0.00
C23	2022-07-02	0.00	0.00	0.94	0.00	1.06	1.65	22.20	0.00	0.12	2.60	0.00
C23	2022-07-03	0.00	0.00	0.94	0.00	1.30	0.83	1.89	0.00	0.00	1.30	0.00
C23	2022-07-04	0.00	0.00	0.00	0.00	0.12	4.34	6.34	0.00	0.00	3.05	0.00
C26	2022-06-10	0.00	0.00	8.27	0.00	5.67	0.00	1.65	0.00	0.00	0.47	0.00
C26	2022-06-11	0.00	0.00	2.49	0.00	1.19	0.00	0.59	0.00	0.00	0.00	0.00
C26	2022-06-12	0.00	0.00	0.83	0.00	0.36	0.00	0.48	0.00	0.00	0.00	0.00
C26	2022-06-13	0.00	0.00	1.31	0.00	1.07	0.00	0.12	0.00	0.00	0.12	0.00
C26	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-07-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	2022-07-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C29	2022-06-02	0.00	0.00	2.08	0.00	2.54	0.00	0.00	0.00	0.00	0.00	0.00
C29	2022-06-03	0.12	0.00	3.94	0.00	8.22	0.00	3.47	0.00	0.00	0.58	0.00
C29	2022-06-04	1.51	0.00	16.28	0.00	11.51	0.00	0.12	0.00	0.00	0.35	0.00
C29	2022-06-05	0.70	0.00	6.06	0.00	4.19	0.23	0.93	0.00	0.12	0.35	0.00
C29	2022-06-06	1.40	0.00	13.22	0.00	10.29	0.00	0.35	0.00	0.00	0.35	0.00
C29	2022-06-07	1.99	0.00	15.59	0.00	10.43	0.35	4.22	0.00	0.00	0.59	0.00
C29	2022-06-08	0.35	0.00	7.88	0.00	5.76	1.18	5.76	0.00	0.00	1.29	0.00
C29	2022-06-09	0.59	0.00	16.38	0.00	16.03	0.59	6.84	0.00	0.00	0.83	0.00
C29	2022-06-10	1.89	0.00	24.52	0.00	24.16	0.59	2.71	0.00	0.00	0.35	0.00
C29	2022-06-11	0.71	0.00	12.19	0.00	8.05	0.24	1.18	0.00	0.00	0.47	0.00
C29	2022-06-12	1.42	0.00	4.03	0.00	2.13	0.24	1.66	0.00	0.00	0.36	0.00
C29	2022-06-13	0.24	0.00	3.32	0.00	1.42	0.36	6.52	0.00	0.00	1.42	0.00
C29	2022-06-14	0.00	0.00	0.59	0.00	0.71	0.71	2.26	0.00	0.00	1.19	0.00
C29	2022-06-15	0.24	0.00	1.07	0.00	1.19	0.00	2.14	0.00	0.00	0.24	0.00
C29	2022-06-16	0.48	0.00	3.45	0.00	0.95	1.43	3.69	0.00	0.00	2.86	0.00
C29	2022-06-17	0.00	0.00	2.02	0.00	2.50	0.48	1.79	0.00	0.00	0.83	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C29	2022-06-18	0.24	0.00	1.55	0.00	1.07	0.00	1.55	0.00	0.00	0.36	0.00
C29	2022-06-19	0.12	0.00	1.43	0.00	2.62	0.72	5.73	0.00	0.00	0.72	0.00
C29	2022-06-20	0.00	0.00	2.03	0.00	2.15	0.95	7.51	0.00	0.00	1.43	0.00
C29	2022-06-21	0.00	0.00	1.31	0.00	0.48	0.12	0.00	0.00	0.00	0.24	0.00
C29	2022-06-22	0.00	0.00	0.83	0.00	0.72	1.19	1.55	0.00	0.00	0.24	0.00
C29	2022-06-23	0.12	0.00	1.19	0.00	0.36	0.12	1.55	0.00	0.12	0.72	0.00
C29	2022-06-24	0.00	0.00	1.55	0.00	1.31	0.24	1.19	0.00	0.00	0.36	0.00
C29	2022-06-25	0.00	0.00	0.36	0.00	0.71	1.07	1.43	0.00	0.00	0.36	0.00
C29	2022-06-26	0.00	0.00	0.36	0.00	1.07	0.71	0.12	0.00	0.00	0.36	0.00
C29	2022-06-27	0.00	0.00	6.65	0.00	3.56	3.21	7.72	0.00	0.24	2.49	0.00
C29	2022-06-28	0.00	0.00	1.07	0.00	0.71	0.47	0.24	0.00	0.00	0.36	0.00
C29	2022-06-29	0.00	0.00	5.21	0.00	6.86	0.12	1.66	0.00	0.00	0.71	0.00
C29	2022-06-30	0.00	0.00	0.83	0.00	2.01	0.83	0.71	0.00	0.12	0.35	0.00
C29	2022-07-01	0.00	0.00	2.12	0.00	0.94	0.35	2.24	0.00	0.00	0.83	0.00
C29	2022-07-02	0.00	0.00	1.30	0.00	1.77	1.30	1.30	0.00	0.00	0.71	0.00
C29	2022-07-03	0.00	0.00	0.94	0.00	1.06	1.06	0.47	0.00	0.00	0.12	0.00
C29	2022-07-04	0.00	0.00	2.70	0.00	3.28	0.94	0.47	0.00	0.00	1.41	0.00
C29	2022-07-05	0.12	0.00	1.63	0.00	2.45	2.45	1.17	0.00	0.00	1.87	0.00
C29	2022-07-06	0.00	0.00	0.00	0.00	0.93	0.12	1.40	0.00	0.00	0.00	0.00
C29	2022-07-07	0.12	0.00	0.58	0.00	1.39	0.23	1.51	0.00	0.00	0.70	0.00
C29	2022-07-08	0.35	0.00	1.16	0.00	0.92	9.48	3.12	0.00	0.00	3.70	0.00
C29	2022-07-09	0.23	0.00	2.77	0.00	1.96	0.69	1.27	0.00	0.00	0.23	0.00
C29	2022-07-10	0.00	0.00	2.07	0.00	1.49	1.49	4.71	0.00	0.00	1.26	0.00
C29	2022-07-11	0.23	0.00	1.49	0.00	2.98	1.72	6.07	0.00	0.00	1.49	0.00
C29	2022-07-12	3.88	0.00	2.40	0.00	1.60	0.11	0.23	0.00	0.00	0.23	0.00
C29	2022-07-13	0.57	0.00	1.14	0.00	0.46	3.76	9.34	0.00	0.34	3.42	0.00
C29	2022-07-14	0.68	0.00	2.15	0.00	1.59	3.18	7.15	0.00	0.00	2.27	0.00
C29	2022-07-15	0.34	0.00	1.47	0.00	0.56	1.13	2.15	0.00	0.00	1.81	0.00
C29	2022-07-16	0.22	0.00	3.15	0.00	0.45	3.26	9.10	0.00	0.34	2.13	0.00
C29	2022-07-17	0.11	0.00	5.82	0.11	3.36	0.90	20.60	0.00	0.56	3.36	0.00
C29	2022-07-18	0.56	0.00	3.34	0.00	2.23	1.00	1.56	0.00	0.00	0.56	0.00
C29	2022-07-19	0.22	0.00	3.44	0.00	2.66	1.66	5.32	0.00	0.00	1.77	0.00
C29	2022-07-20	0.88	0.00	4.63	0.00	4.41	4.19	15.00	0.00	0.55	4.19	0.00
C29	2022-07-21	0.33	0.00	7.25	0.00	7.25	2.97	23.19	0.00	0.77	6.70	0.00
C29	2022-07-22	0.55	0.00	3.83	0.00	1.75	2.30	4.49	0.00	0.11	0.88	0.00
C29	2022-07-23	0.22	0.00	1.85	0.00	0.54	2.07	1.09	0.00	0.11	0.65	0.00
C29	2022-07-24	0.00	0.00	1.19	0.00	0.76	2.17	5.09	0.00	0.22	1.62	0.00
C29	2022-07-25	1.29	0.00	18.45	0.00	9.06	2.91	14.03	0.00	0.65	4.96	0.00
C29	2022-07-26	1.39	0.00	34.39	0.11	16.29	6.21	71.78	0.00	1.50	10.61	0.00
C29	2022-07-27	0.21	0.00	2.77	0.00	3.52	2.35	5.97	0.00	0.11	2.13	0.00
C29	2022-07-28	0.53	0.00	8.90	1.48	9.32	2.12	5.40	0.00	0.00	1.80	0.00
C29	2022-07-29	0.63	0.00	8.55	0.00	6.23	5.91	11.72	0.00	0.32	4.96	0.00
C29	2022-07-30	0.00	0.00	1.79	0.00	4.48	1.20	1.49	0.00	0.00	1.05	0.00
C31	2022-07-08	0.00	0.00	0.23	0.00	0.69	2.20	11.81	0.00	0.12	1.27	0.00
C31	2022-07-09	0.00	0.00	0.12	0.00	0.00	1.85	5.32	0.00	0.00	1.97	0.00
C31	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.58	0.58	0.00	0.00	0.23	0.00
C31	2022-07-11	0.00	0.00	0.23	0.00	0.46	0.46	2.87	0.00	0.00	0.69	0.00
C31	2022-07-12	0.00	0.00	0.11	0.00	0.00	0.91	0.69	0.00	0.00	0.23	0.00
C31	2022-07-13	0.00	0.00	0.00	0.00	0.34	1.02	2.73	0.00	0.00	0.91	0.00
C31	2022-07-14	0.00	0.00	0.23	0.00	0.68	1.93	7.83	0.00	0.00	1.36	0.00
C31	2022-07-15	0.00	0.00	0.11	0.00	0.00	0.68	4.08	0.00	0.00	0.91	0.00
C31	2022-07-16	0.00	0.00	0.00	0.00	0.11	1.91	6.42	0.00	0.00	1.24	0.00
C31	2022-07-17	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.22	0.00
C31	2022-07-18	0.00	0.00	1.00	0.00	1.00	0.78	1.45	0.00	0.00	0.33	0.00
C31	2022-07-19	0.00	0.00	0.22	0.00	0.00	0.33	4.00	0.00	0.00	1.11	0.00
C31	2022-07-20	0.00	0.00	0.00	0.00	0.00	1.33	2.87	0.00	0.00	1.66	0.00
C31	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.33	0.11	0.00	0.00	0.00	0.00
C31	2022-07-22	0.00	0.00	0.00	0.00	0.22	0.55	2.63	0.00	0.00	0.66	0.00
C31	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.65	0.33	0.00	0.00	0.22	0.00
C31	2022-07-24	0.00	0.00	0.00	0.00	0.00	1.08	1.52	0.00	0.00	0.65	0.00
C31	2022-07-25	0.00	0.00	0.00	0.00	0.11	1.62	1.40	0.00	0.00	0.43	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C31	2022-07-26	0.00	0.00	0.11	0.00	0.43	0.64	1.61	0.00	0.00	0.43	0.00
C31	2022-07-27	0.00	0.00	0.11	0.00	0.00	0.53	3.63	0.00	0.00	0.53	0.00
C31	2022-07-28	0.00	0.00	0.11	0.00	0.00	0.42	2.97	0.00	0.00	0.74	0.00
C31	2022-07-29	0.00	0.00	0.11	0.00	0.00	1.48	4.87	0.00	0.00	1.48	0.00
C31	2022-07-30	0.00	0.00	0.21	0.00	0.11	0.32	1.26	0.00	0.11	0.11	0.00
C31	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C31	2022-08-01	0.00	0.00	0.10	0.00	0.00	0.62	1.46	0.00	0.00	0.62	0.00
C31	2022-08-02	0.00	0.00	0.00	0.00	0.00	0.41	0.62	0.00	0.00	0.10	0.00
C31	2022-08-03	0.00	0.00	0.00	0.00	0.10	0.31	1.64	0.00	0.00	0.31	0.00
C31	2022-08-04	0.00	0.00	0.20	0.00	0.20	1.54	7.68	0.00	0.00	2.76	0.00
C31	2022-08-05	0.00	0.00	0.00	0.00	0.20	0.71	4.58	0.00	0.10	19.42	0.00
C31	2022-08-06	0.00	0.00	0.10	0.00	0.00	0.30	1.21	0.00	0.00	0.10	0.00
C31	2022-08-07	0.00	0.00	0.10	0.10	0.10	0.50	2.21	0.00	0.00	0.50	0.00
C31	2022-08-08	0.00	0.00	0.10	0.00	0.10	1.00	8.30	0.00	0.00	0.60	0.00
C31	2022-08-09	0.00	0.00	0.00	0.00	0.00	1.49	6.27	0.00	0.00	6.87	0.00
C31	2022-08-10	0.00	0.00	0.00	0.00	0.00	1.09	4.74	0.00	0.00	1.68	0.00
C31	2022-08-11	0.00	0.00	0.00	0.10	0.20	0.49	9.44	0.00	0.00	1.48	0.00
C31	2022-08-12	0.00	0.00	0.00	0.00	0.10	0.88	6.25	0.00	0.00	1.07	0.00
C31	2022-08-13	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.10	0.00
C31	2022-08-14	0.00	0.00	0.10	0.00	0.29	0.39	4.83	0.00	0.00	0.68	0.00
C31	2022-08-15	0.10	0.00	0.19	0.00	0.00	1.15	16.13	0.00	0.10	2.88	0.00
C31	2022-08-16	0.00	0.00	0.00	0.00	0.19	0.57	4.78	0.00	0.00	1.53	0.00
C31	2022-08-17	0.00	0.00	0.00	0.00	0.00	0.85	3.13	0.00	0.00	0.85	0.00
C31	2022-08-18	0.00	0.00	0.00	0.00	0.00	0.66	0.38	0.00	0.00	0.28	0.00
C31	2022-08-19	0.00	0.00	0.09	0.00	0.00	0.38	2.72	0.00	0.00	1.13	0.00
C31	2022-08-20	0.19	0.00	0.09	0.00	0.00	0.37	2.98	0.00	0.00	0.84	0.00
C31	2022-08-21	0.00	0.00	0.19	0.28	0.09	1.30	8.08	0.00	0.00	1.30	0.00
C31	2022-08-22	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
C32	2022-06-08	0.00	0.00	0.35	0.00	0.12	0.00	0.47	0.00	0.00	0.00	0.00
C32	2022-06-09	0.00	0.00	0.24	0.00	0.24	0.59	1.06	0.00	0.00	1.30	0.00
C32	2022-06-10	0.00	0.00	0.47	0.00	0.12	0.47	0.83	0.00	0.00	0.24	0.00
C32	2022-06-11	0.00	0.00	0.24	0.00	0.24	0.36	0.12	0.00	0.00	0.24	0.00
C32	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.71	0.00
C32	2022-06-13	0.00	0.00	0.00	0.00	0.00	0.12	0.36	0.00	0.00	0.00	0.00
C32	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.12	0.48	0.00	0.00	0.00	0.00
C32	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C32	2022-06-16	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C32	2022-06-17	0.00	0.00	0.12	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
C32	2022-06-18	0.00	0.00	0.12	0.00	0.12	0.12	4.66	0.00	0.00	0.60	0.00
C32	2022-06-19	0.00	0.00	0.12	0.00	0.24	0.60	4.18	0.00	0.00	1.20	0.00
C32	2022-06-20	0.00	0.00	0.12	0.00	0.00	1.43	2.75	0.00	0.00	1.08	0.00
C32	2022-06-21	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
C32	2022-06-22	0.00	0.00	0.00	0.00	0.24	0.36	4.18	0.00	0.00	0.48	0.00
C32	2022-06-23	0.00	0.00	0.48	0.00	0.12	0.60	1.31	0.00	0.00	0.48	0.00
C32	2022-06-24	0.00	0.00	0.00	0.00	0.12	0.48	1.55	0.00	0.00	1.31	0.00
C32	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.48	1.67	0.00	0.00	0.48	0.00
C32	2022-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C32	2022-06-27	0.00	0.00	0.24	0.00	0.24	0.48	0.60	0.00	0.00	0.00	0.00
C32	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.12	0.00
C32	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
C32	2022-06-30	0.00	0.00	0.12	0.00	0.24	0.12	0.00	0.00	0.00	0.12	0.00
C32	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C32	2022-07-02	0.00	0.00	0.00	0.00	0.00	0.35	0.59	0.00	0.00	0.00	0.00
C32	2022-07-03	0.00	0.00	0.12	0.00	0.00	0.00	0.82	0.00	0.00	0.12	0.00
C32	2022-07-04	0.00	0.00	0.12	0.00	0.00	0.94	0.94	0.00	0.00	0.35	0.00
C32	2022-07-05	0.00	0.00	0.70	0.00	0.35	0.47	2.22	0.00	0.12	0.47	0.00
C32	2022-07-06	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
C32	2022-07-07	0.00	0.00	0.00	0.00	0.00	0.35	1.74	0.00	0.00	0.23	0.00
C32	2022-07-08	0.00	0.00	0.00	0.00	0.12	0.69	2.66	0.00	0.00	0.81	0.00
C32	2022-07-09	0.00	0.00	0.00	0.00	0.00	0.81	3.12	0.00	0.00	0.81	0.00
C32	2022-07-10	0.00	0.00	0.00	0.00	0.12	0.46	0.23	0.00	0.00	0.12	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C32	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
C32	2022-07-12	0.00	0.00	0.11	0.00	0.00	0.11	1.03	0.00	0.00	0.34	0.00
C32	2022-07-13	0.00	0.00	0.34	0.00	0.00	0.68	1.25	0.00	0.00	0.57	0.00
C32	2022-07-14	0.00	0.00	0.34	0.00	0.00	1.36	3.18	0.00	0.11	0.91	0.00
C32	2022-07-15	0.00	0.00	0.57	0.00	0.11	1.92	2.15	0.00	0.00	1.13	0.00
C32	2022-07-16	0.00	0.00	0.00	0.00	0.00	0.68	2.14	0.00	0.11	0.23	0.00
C32	2022-07-17	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.11	0.00
C32	2022-07-18	0.00	0.00	0.45	0.00	0.11	1.34	1.23	0.00	0.00	0.33	0.00
C32	2022-07-19	0.00	0.00	0.00	0.00	0.00	0.11	3.33	0.00	0.22	1.11	0.00
C32	2022-07-20	0.00	0.00	0.66	0.00	0.22	0.66	2.43	0.00	0.11	1.22	0.00
C32	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C32	2022-07-22	0.00	0.00	5.04	0.00	4.93	1.09	1.09	0.00	0.00	0.55	0.00
C32	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.11	0.00
C32	2022-07-24	0.00	0.00	0.65	0.00	0.65	0.54	0.65	0.00	0.00	0.22	0.00
C32	2022-07-25	0.00	0.00	2.15	0.00	2.26	0.32	1.62	0.00	0.00	0.32	0.00
C32	2022-07-26	0.00	0.00	7.73	0.00	0.97	0.54	1.18	0.00	0.00	1.29	0.00
C32	2022-07-27	0.00	0.00	0.11	0.00	0.00	0.96	1.81	0.00	0.00	0.85	0.00
C32	2022-07-28	0.00	0.00	0.00	0.00	0.32	1.38	2.12	0.00	0.00	1.38	0.00
C32	2022-07-29	0.00	0.00	0.32	0.11	0.11	0.85	2.43	0.00	0.00	0.74	0.00
C32	2022-07-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C32	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.10	0.21	0.00	0.00	0.00	0.00
C32	2022-08-01	0.00	0.00	0.42	0.00	0.31	0.94	5.82	0.00	0.00	0.83	0.00
C32	2022-08-02	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.00	0.00	0.00	0.00
C32	2022-08-03	0.00	0.00	0.16	0.16	0.16	0.79	1.27	0.00	0.00	0.16	0.00
C32	2022-08-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C35	2022-07-08	0.00	0.00	0.00	0.00	0.00	0.23	2.33	0.00	0.00	0.23	0.00
C35	2022-07-09	0.00	0.00	0.12	0.00	0.12	0.69	5.10	0.00	0.00	0.69	0.00
C35	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
C35	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.23	0.57	0.00	0.00	0.00	0.00
C35	2022-07-12	0.00	0.00	0.11	0.00	0.11	0.00	0.34	0.00	0.00	0.00	0.00
C35	2022-07-13	0.00	0.00	0.00	0.00	0.00	0.46	4.45	0.00	0.00	0.57	0.00
C35	2022-07-14	0.00	0.00	0.11	0.00	0.00	0.11	4.89	0.00	0.00	0.68	0.00
C35	2022-07-15	0.00	0.00	0.00	0.00	0.23	0.79	3.85	0.00	0.00	0.23	0.00
C35	2022-07-16	0.00	0.00	0.00	0.00	0.11	0.90	7.56	0.00	0.00	0.45	0.00
C35	2022-07-17	0.00	0.00	0.00	0.00	0.00	0.11	0.90	0.00	0.00	0.11	0.00
C35	2022-07-18	0.00	0.00	0.11	0.00	0.22	0.22	1.90	0.00	0.00	0.45	0.00
C35	2022-07-19	0.00	0.00	0.00	0.00	0.00	2.34	11.35	0.00	0.11	1.67	0.00
C35	2022-07-20	0.00	0.00	0.00	0.00	0.00	0.66	3.99	0.00	0.00	0.66	0.00
C35	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.44	0.55	0.00	0.00	0.44	0.00
C35	2022-07-22	0.00	0.00	0.11	0.00	0.00	0.11	0.99	0.00	0.00	0.33	0.00
C35	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.22	0.33	0.00	0.00	0.00	0.00
C35	2022-07-24	0.00	0.00	0.00	0.00	0.00	0.54	1.52	0.00	0.11	0.43	0.00
C35	2022-07-25	0.11	0.00	0.00	0.00	0.00	0.76	2.27	0.00	0.00	0.22	0.00
C35	2022-07-26	0.00	0.00	0.00	0.00	0.00	0.75	2.26	0.00	0.00	0.97	0.00
C35	2022-07-27	0.00	0.00	0.21	0.00	0.21	0.21	3.85	0.00	0.11	0.32	0.00
C35	2022-07-28	0.00	0.00	0.11	0.00	0.11	0.00	2.66	0.00	0.00	0.43	0.00
C35	2022-07-29	0.00	0.00	0.42	0.11	0.00	0.85	1.27	0.00	0.11	0.63	0.00
C35	2022-07-30	0.00	0.00	0.11	0.00	0.00	0.11	6.51	0.00	0.00	0.32	0.00
C35	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C35	2022-08-01	0.00	0.00	0.10	0.21	0.31	0.94	2.60	0.00	0.00	0.42	0.00
C35	2022-08-02	0.00	0.00	0.00	0.00	0.00	0.10	1.45	0.00	0.00	0.31	0.00
C35	2022-08-03	0.00	0.00	0.21	0.00	0.10	0.31	0.82	0.00	0.00	0.31	0.00
C35	2022-08-04	0.00	0.00	0.20	0.00	0.10	1.74	6.14	0.00	0.00	1.43	0.00
C35	2022-08-05	0.00	0.00	0.10	0.00	0.51	0.31	1.83	0.00	0.10	0.31	0.00
C35	2022-08-06	0.10	0.00	0.20	0.10	0.20	0.30	2.84	0.00	0.00	0.71	0.00
C35	2022-08-07	0.00	0.00	0.20	0.10	0.00	0.50	1.31	0.00	0.00	0.81	0.00
C35	2022-08-08	0.00	0.00	0.20	0.00	0.20	0.50	1.10	0.00	0.00	0.30	0.00
C35	2022-08-09	0.00	0.00	0.00	0.00	0.30	1.19	10.65	0.00	0.00	2.19	0.00
C35	2022-08-10	0.00	0.00	0.00	0.00	0.20	0.30	1.78	0.00	0.00	0.40	0.00
C35	2022-08-11	0.00	0.00	0.20	0.10	0.39	0.20	2.36	0.00	0.00	0.59	0.00
C35	2022-08-12	0.00	0.00	0.39	0.00	0.00	0.49	3.92	0.00	0.00	1.37	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C35	2022-08-13	0.00	0.00	0.00	0.00	0.10	0.10	0.29	0.00	0.00	0.00	0.00
C35	2022-08-14	0.00	0.00	0.00	0.00	0.00	0.29	0.58	0.00	0.00	0.00	0.00
C35	2022-08-15	0.10	0.00	0.38	0.00	0.00	1.63	20.19	0.00	0.00	2.79	0.00
C35	2022-08-16	0.00	0.00	0.10	0.00	0.48	2.01	8.13	0.00	0.10	2.49	0.00
C35	2022-08-17	0.00	0.00	0.00	0.10	0.38	0.76	6.56	0.00	0.10	0.76	0.00
C35	2022-08-18	0.00	0.00	0.00	0.00	0.09	0.47	11.55	0.00	0.09	2.74	0.00
C35	2022-08-19	0.00	0.00	0.09	0.09	0.00	0.09	2.26	0.00	0.00	0.28	0.00
C36	2022-06-08	0.12	0.00	0.12	0.00	0.35	0.12	1.18	0.00	0.00	0.12	0.00
C36	2022-06-09	0.00	0.00	0.47	0.00	0.59	0.35	2.83	0.00	0.00	0.71	0.00
C36	2022-06-10	0.00	0.00	0.35	0.00	0.00	4.25	2.01	0.00	0.00	1.06	0.00
C36	2022-06-11	0.24	0.00	0.71	0.00	0.24	1.07	2.73	0.00	0.00	1.30	0.00
C36	2022-06-12	0.12	0.00	0.12	0.00	0.59	4.40	4.87	0.00	0.24	2.85	0.00
C36	2022-06-13	0.24	0.00	0.12	0.00	0.12	0.59	2.38	0.00	0.12	0.83	0.00
C36	2022-06-14	0.12	0.00	0.48	0.00	0.36	0.48	3.81	0.00	0.00	0.95	0.00
C36	2022-06-15	0.00	0.00	0.00	0.00	0.24	0.83	1.90	0.00	0.00	0.48	0.00
C36	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.24	0.48	0.00	0.00	0.12	0.00
C36	2022-06-17	0.12	0.00	0.12	0.00	0.00	0.95	2.03	0.00	0.00	0.00	0.00
C36	2022-06-18	0.12	0.00	0.12	0.00	0.24	3.71	6.21	0.00	0.12	3.47	0.00
C36	2022-06-19	0.12	0.00	0.12	0.00	0.24	3.59	23.07	0.00	0.00	2.51	0.00
C36	2022-06-20	0.12	0.00	0.72	0.00	0.36	1.20	9.80	0.00	0.24	0.36	0.00
C36	2022-06-21	0.00	0.00	0.12	0.00	0.00	0.12	0.12	0.00	0.00	0.24	0.00
C36	2022-06-22	0.00	0.00	0.00	0.00	0.00	0.60	5.14	0.00	0.00	0.60	0.00
C36	2022-06-23	0.36	0.00	0.00	0.00	0.00	2.27	4.42	0.00	0.00	1.31	0.00
C36	2022-06-24	0.00	0.00	0.00	0.00	0.00	0.95	1.43	0.00	0.12	0.36	0.00
C36	2022-06-25	0.12	0.00	0.24	0.00	0.36	0.95	3.70	0.00	0.00	0.83	0.00
C36	2022-06-26	0.00	0.00	0.24	0.00	0.12	0.24	0.48	0.00	0.00	0.36	0.00
C36	2022-06-27	0.00	0.00	0.12	0.00	0.00	5.95	3.57	0.00	0.00	1.55	0.00
C36	2022-06-28	0.12	0.00	0.36	0.00	0.24	0.48	1.19	0.00	0.00	0.36	0.00
C36	2022-06-29	0.00	0.00	0.00	0.00	0.12	0.24	0.83	0.00	0.00	0.36	0.00
C36	2022-06-30	0.00	0.00	0.47	0.00	0.12	0.59	2.37	0.00	0.24	0.59	0.00
C36	2022-07-01	0.00	0.00	0.24	0.00	0.00	0.94	1.54	0.00	0.00	0.59	0.00
C36	2022-07-02	0.00	0.00	0.24	0.00	0.35	2.36	7.68	0.00	0.12	1.30	0.00
C36	2022-07-03	0.00	0.00	0.24	0.00	0.35	1.76	1.06	0.00	0.00	1.18	0.00
C36	2022-07-04	0.00	0.00	0.35	0.00	0.35	1.88	3.29	0.00	0.35	1.41	0.00
C36	2022-07-05	0.12	0.00	0.23	0.12	0.47	2.11	7.49	0.00	0.12	1.40	0.00
C36	2022-07-06	0.00	0.00	0.00	0.00	0.00	1.05	3.39	0.00	0.00	0.58	0.00
C36	2022-07-07	0.12	0.00	0.12	0.00	0.00	0.93	1.40	0.00	0.00	0.35	0.00
C36	2022-07-08	0.93	0.00	1.04	0.00	1.04	2.90	7.07	0.00	0.12	1.85	0.00
C36	2022-07-09	0.46	0.00	0.81	0.00	0.69	2.08	7.98	0.00	0.12	1.04	0.00
C36	2022-07-10	0.00	0.00	0.00	0.00	0.35	0.69	1.27	0.00	0.00	0.46	0.00
C36	2022-07-11	0.00	0.00	0.11	0.00	0.23	0.46	0.69	0.00	0.00	0.34	0.00
C36	2022-07-12	0.11	0.00	0.46	0.00	1.26	0.69	1.26	0.00	0.00	0.23	0.00
C36	2022-07-13	0.34	0.00	0.00	0.00	0.80	2.50	4.55	0.00	0.11	1.25	0.00
C36	2022-07-14	0.11	0.00	0.23	0.00	0.91	3.74	13.38	0.00	0.11	2.15	0.00
C36	2022-07-15	0.34	0.00	0.23	0.00	0.11	3.17	8.38	0.00	0.00	0.23	0.00
C36	2022-07-16	0.00	0.00	0.23	0.00	0.45	2.48	10.47	0.00	0.34	1.24	0.00
C36	2022-07-17	0.00	0.00	0.00	0.00	0.00	1.68	1.57	0.00	0.22	0.11	0.00
C36	2022-07-18	0.00	0.00	0.11	0.00	0.67	4.68	8.03	0.00	0.78	2.01	0.00
C36	2022-07-19	0.44	0.00	0.22	0.00	1.44	2.22	21.00	0.00	0.22	3.78	0.00
C36	2022-07-20	0.11	0.00	0.99	0.00	0.99	2.98	14.25	0.00	0.22	2.32	0.00
C36	2022-07-21	0.00	0.00	0.00	0.00	0.11	0.44	1.76	0.00	0.00	1.21	0.00
C36	2022-07-22	0.00	0.00	0.11	0.00	0.66	1.53	7.01	0.00	0.22	1.53	0.00
C36	2022-07-23	0.00	0.00	0.00	0.00	0.00	0.76	1.09	0.00	0.11	0.22	0.00
C36	2022-07-24	0.11	0.00	0.22	0.00	0.43	1.19	3.04	0.00	0.33	1.08	0.00
C36	2022-07-25	0.00	0.00	0.97	0.00	1.40	2.59	17.23	0.00	0.54	1.72	0.00
C36	2022-07-26	0.00	0.00	0.32	0.00	0.11	2.68	11.27	0.00	0.54	2.79	0.00
C36	2022-07-27	0.00	0.00	0.75	0.11	0.53	1.81	12.06	0.00	0.21	3.10	0.00
C36	2022-07-28	0.11	0.00	0.53	0.21	0.53	1.49	11.04	0.00	0.11	1.06	0.00
C36	2022-07-29	0.11	0.00	0.63	0.11	0.53	2.75	12.49	0.00	0.85	2.75	0.00
C36	2022-07-30	0.00	0.00	0.00	0.00	0.63	1.89	5.67	0.00	0.11	1.37	0.00
C36	2022-07-31	0.00	0.00	0.00	0.00	0.10	0.42	1.25	0.00	0.00	0.10	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C36	2022-08-01	0.00	0.00	0.17	0.00	0.84	1.17	4.86	0.00	0.00	0.34	0.00
C36	2022-08-02	0.00	0.00	0.00	0.00	0.24	0.73	10.93	0.00	0.00	1.70	0.00
C38	2022-06-08	0.00	0.00	0.00	0.00	0.12	0.47	0.94	0.00	0.00	0.24	0.00
C38	2022-06-09	0.00	0.00	0.24	0.00	0.59	0.35	1.42	0.00	0.00	0.94	0.00
C38	2022-06-10	0.00	0.00	0.00	0.00	0.00	0.47	1.18	0.00	0.00	0.71	0.00
C38	2022-06-11	0.00	0.00	0.12	0.00	0.00	0.00	1.54	0.00	0.00	0.12	0.00
C38	2022-06-12	0.00	0.00	0.00	0.00	0.00	0.12	2.26	0.00	0.00	0.48	0.00
C38	2022-06-13	0.00	0.00	0.00	0.00	0.12	0.71	1.90	0.00	0.00	0.48	0.00
C38	2022-06-14	0.00	0.00	0.00	0.00	0.00	0.24	1.07	0.00	0.00	0.36	0.00
C38	2022-06-15	0.00	0.00	0.00	0.00	0.00	0.36	2.74	0.00	0.00	0.71	0.00
C38	2022-06-16	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.12	0.00
C38	2022-06-17	0.00	0.00	0.12	0.00	0.00	0.24	1.79	0.00	0.12	0.95	0.00
C38	2022-06-18	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.36	0.00
C38	2022-06-19	0.00	0.00	0.00	0.00	0.00	0.72	5.02	0.00	0.00	2.39	0.00
C38	2022-06-20	0.00	0.00	0.12	0.00	0.12	0.72	0.84	0.00	0.00	1.20	0.00
C38	2022-06-21	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
C38	2022-06-22	0.00	0.00	0.00	0.00	0.00	0.36	1.91	0.00	0.00	0.00	0.00
C38	2022-06-23	0.00	0.00	0.00	0.00	0.00	0.96	1.67	0.00	0.00	0.96	0.00
C38	2022-06-24	0.00	0.00	0.00	0.00	0.00	0.12	2.27	0.00	0.00	0.72	0.00
C38	2022-06-25	0.00	0.00	0.00	0.00	0.00	0.24	1.67	0.00	0.00	0.83	0.00
C38	2022-06-26	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00	0.00
C38	2022-06-27	0.00	0.00	0.00	0.00	0.00	0.36	0.60	0.00	0.00	0.60	0.00
C38	2022-06-28	0.00	0.00	0.00	0.00	0.00	0.24	0.12	0.00	0.00	0.59	0.00
C38	2022-06-29	0.00	0.00	0.00	0.00	0.00	0.12	0.36	0.00	0.00	0.12	0.00
C38	2022-06-30	0.00	0.00	0.00	0.00	0.00	0.36	0.12	0.00	0.00	0.47	0.00
C38	2022-07-01	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.00	0.00
C38	2022-07-02	0.00	0.00	0.12	0.00	0.24	0.12	0.00	0.00	0.00	0.12	0.00
C38	2022-07-03	0.00	0.00	0.00	0.00	0.00	0.35	0.47	0.00	0.00	0.59	0.00
C38	2022-07-04	0.00	0.00	0.00	0.00	0.23	0.47	1.17	0.00	0.00	0.70	0.00
C38	2022-07-05	0.00	0.00	0.00	0.00	0.23	0.23	1.87	0.00	0.00	1.29	0.00
C38	2022-07-06	0.00	0.00	0.00	0.00	0.00	1.05	0.93	0.00	0.00	0.93	0.00
C38	2022-07-07	0.00	0.00	0.00	0.00	0.00	0.12	0.93	0.00	0.00	0.47	0.00
C38	2022-07-08	0.00	0.00	0.00	0.00	0.23	0.81	2.32	0.00	0.00	1.04	0.00
C38	2022-07-09	0.00	0.00	0.00	0.00	0.00	1.27	1.97	0.00	0.00	0.81	0.00
C38	2022-07-10	0.00	0.00	0.00	0.00	0.00	0.69	1.73	0.00	0.00	0.35	0.00
C38	2022-07-11	0.00	0.00	0.00	0.00	0.00	0.80	1.03	0.00	0.00	0.69	0.00
C38	2022-07-12	0.11	0.00	0.00	0.00	0.11	0.00	0.80	0.00	0.00	0.57	0.00
C38	2022-07-13	0.00	0.00	0.11	0.00	0.23	0.23	2.62	0.00	0.00	0.57	0.00
C38	2022-07-14	0.00	0.00	0.00	0.00	0.00	0.68	3.40	0.00	0.00	2.04	0.00
C38	2022-07-15	0.00	0.00	0.11	0.00	0.11	1.47	3.96	0.00	0.00	1.13	0.00
C38	2022-07-16	0.00	0.00	0.00	0.00	0.00	2.03	7.77	0.00	0.00	2.81	0.00
C38	2022-07-17	0.00	0.00	0.11	0.00	0.00	0.90	1.57	0.00	0.00	1.23	0.00
C38	2022-07-18	0.00	0.00	0.00	0.00	0.11	0.89	2.01	0.00	0.00	1.12	0.00
C38	2022-07-19	0.00	0.00	0.00	0.00	0.33	0.67	5.89	0.00	0.00	1.11	0.00
C38	2022-07-20	0.00	0.00	0.00	0.00	0.33	0.77	2.32	0.00	0.00	1.44	0.00
C38	2022-07-21	0.00	0.00	0.00	0.00	0.00	0.22	1.21	0.00	0.00	0.77	0.00
C38	2022-07-22	0.00	0.00	0.00	0.00	0.33	1.42	1.86	0.00	0.00	1.20	0.00
C38	2022-07-23	0.00	0.00	0.00	0.00	0.11	0.22	0.54	0.00	0.00	0.65	0.00
C38	2022-07-24	0.00	0.00	0.00	0.00	0.22	0.22	0.65	0.00	0.22	0.76	0.00
C38	2022-07-25	0.00	0.00	0.00	0.00	0.22	0.75	1.94	0.00	0.00	1.62	0.00
C38	2022-07-26	0.00	0.00	0.43	0.00	0.54	0.97	1.40	0.00	0.00	0.86	0.00
C38	2022-07-27	0.00	0.00	0.00	0.00	0.00	0.53	2.67	0.00	0.00	0.85	0.00
C38	2022-07-28	0.00	0.00	0.11	0.00	0.00	0.42	3.08	0.00	0.00	1.27	0.00
C38	2022-07-29	0.00	0.00	0.21	0.00	0.95	0.95	3.17	0.00	0.00	1.16	0.00
C38	2022-07-30	0.00	0.00	0.00	0.00	0.11	0.84	2.52	0.00	0.00	0.95	0.00
C38	2022-07-31	0.00	0.00	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.54	0.00
C38	2022-08-01	0.00	0.00	0.00	0.00	0.44	0.00	0.44	0.00	0.00	0.44	0.00
Camp bat 1	2022-07-06	0.12	0.00	0.93	0.00	0.93	98.56	21.09	0.00	0.47	24.23	0.00
Camp bat 1	2022-07-07	0.12	0.00	0.81	0.00	0.12	44.91	2.79	0.00	0.00	9.28	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Camp bat 2	2022-07-06	0.00	0.00	0.12	0.00	0.12	31.98	7.82	0.00	0.35	54.86	0.00
Camp bat 2	2022-07-07	0.00	0.00	0.00	0.00	0.00	21.63	0.47	0.00	0.00	27.09	0.00
Camp bat 3	2022-07-06	0.00	0.00	0.12	0.00	0.12	131.32	26.96	0.00	0.12	15.29	0.00
Camp bat 3	2022-07-07	0.00	0.00	0.00	0.00	0.12	67.34	1.28	0.00	0.00	8.50	0.00
Camp bat 4	2022-07-06	0.00	0.00	0.00	0.00	0.12	135.87	22.41	0.00	0.23	18.56	0.00
Camp bat 4	2022-07-07	0.00	0.00	0.00	0.00	0.00	73.02	1.40	0.00	0.00	7.79	0.00
Camp bat 5	2022-07-06	0.00	0.00	0.00	0.00	0.00	85.09	12.49	0.00	0.00	3.74	0.00
Camp bat 5	2022-07-07	0.00	0.00	0.12	0.00	0.12	75.49	2.33	0.00	0.00	1.05	0.00
A6	2023-05-28	0.00	0.00	0.00	0.00	0.00	0.23	1.36	0.00	0.00	0.00	0.00
A6	2023-05-29	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.11	0.00
A6	2023-05-30	0.00	0.00	0.11	0.00	0.00	0.23	0.69	0.00	0.00	0.00	0.00
A6	2023-05-31	0.00	0.00	0.00	0.00	0.00	1.26	0.80	0.00	0.00	0.11	0.00
A6	2023-06-01	0.00	0.00	0.00	0.00	0.00	0.12	1.15	0.00	0.00	0.23	0.00
A6	2023-06-02	0.00	0.00	0.00	0.00	0.00	0.23	0.81	0.00	0.00	0.00	0.00
A6	2023-06-03	0.00	0.00	0.00	0.12	0.00	0.35	0.70	0.00	0.00	0.58	0.00
A6	2023-06-04	0.00	0.00	0.00	0.00	0.00	0.70	0.35	0.00	0.12	0.12	0.00
A6	2023-06-05	0.00	0.00	0.00	0.00	0.00	0.12	0.35	0.00	0.00	0.00	0.00
A6	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	2023-06-07	0.00	0.00	0.12	0.00	0.00	0.12	0.23	0.00	0.00	0.00	0.00
A6	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.12	0.71	0.00	0.12	0.12	0.00
A6	2023-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
A6	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
A6	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.83	0.12	0.00	0.00	0.24	0.00
A6	2023-06-12	0.12	0.00	0.00	0.00	0.00	0.71	0.48	0.00	0.00	0.00	0.00
A6	2023-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	2023-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
A6	2023-06-16	0.00	0.00	0.00	0.00	0.00	0.24	1.19	0.00	0.00	0.00	0.00
A6	2023-06-17	0.00	0.00	0.12	0.00	0.12	0.83	0.83	0.00	0.00	0.12	0.00
A6	2023-06-18	0.00	0.00	0.00	0.00	0.00	1.08	0.96	0.00	0.00	0.00	0.00
A6	2023-06-19	0.00	0.00	0.00	0.00	0.00	0.84	0.72	0.00	0.12	0.12	0.00
A6	2023-06-20	0.00	0.00	0.00	0.00	0.00	3.59	0.00	0.00	0.00	0.24	0.00
A6	2023-06-21	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.24	0.12	0.00
A6	2023-06-22	0.00	0.00	0.00	0.00	0.00	0.12	0.84	0.00	0.00	0.00	0.00
A6	2023-06-23	0.12	0.00	0.00	0.00	0.00	0.24	1.20	0.00	0.00	0.60	0.00
A6	2023-06-24	0.00	0.00	0.00	0.00	0.00	0.24	0.72	0.00	0.00	0.12	0.00
A6	2023-06-25	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.12	0.00
A6	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
A6	2023-06-27	0.00	0.00	0.00	0.00	0.12	1.90	0.71	0.00	0.00	0.00	0.00
A6	2023-06-28	0.00	0.00	0.00	0.00	0.00	1.07	0.83	0.00	0.00	0.36	0.00
A6	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.24	1.30	0.00	0.00	0.00	0.00
A6	2023-06-30	0.00	0.00	0.00	0.00	0.12	1.07	0.24	0.00	0.00	0.24	0.00
A6	2023-07-01	0.00	0.00	0.00	0.00	0.00	0.95	0.83	0.00	0.00	0.00	0.00
A6	2023-07-02	0.00	0.00	0.24	0.00	0.00	0.35	1.06	0.00	0.00	0.12	0.00
A6	2023-07-03	0.00	0.00	0.12	0.00	0.00	0.35	0.59	0.00	0.00	0.00	0.00
A6	2023-07-04	0.00	0.00	0.00	0.00	0.00	1.64	2.35	0.00	0.00	1.53	0.00
A6	2023-07-05	0.00	0.00	0.12	0.00	0.12	0.12	0.00	0.00	0.00	0.00	0.00
A6	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.58	0.35	0.00	0.00	7.94	0.00
A6	2023-07-07	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
A6	2023-07-08	0.00	0.00	0.23	0.00	0.00	0.47	0.70	0.00	0.23	4.77	0.00
A6	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
A6	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A6	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A18	2023-05-26	0.00	0.00	0.23	0.00	0.00	0.56	1.80	0.00	0.00	0.45	0.00
A18	2023-05-27	0.00	0.00	0.00	0.00	0.00	0.23	1.47	0.00	0.00	0.45	0.00
A18	2023-05-28	0.00	0.00	0.00	0.00	0.11	0.34	1.47	0.00	0.11	0.57	0.00
A18	2023-05-29	0.00	0.00	0.00	0.00	0.00	0.57	2.97	0.00	0.00	0.46	0.00
A18	2023-05-30	0.00	0.00	0.00	0.00	0.11	0.57	1.95	0.00	0.00	0.57	0.00
A18	2023-05-31	0.00	0.00	0.00	0.00	0.00	0.57	0.80	0.00	0.00	0.23	0.00
A18	2023-06-01	0.00	0.00	0.00	0.00	0.00	0.58	1.27	0.00	0.23	0.35	0.00
A18	2023-06-02	0.00	0.00	0.00	0.00	0.00	0.69	3.12	0.00	0.12	1.16	0.00
A18	2023-06-03	0.00	0.00	0.00	0.00	0.00	0.35	1.97	0.00	0.00	0.46	0.00
A18	2023-06-04	0.00	0.00	0.00	0.00	0.00	0.81	1.63	0.00	0.00	0.35	0.00
A18	2023-06-05	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.00	0.00	0.70	0.00
A18	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.12	0.35	0.00	0.00	0.23	0.00
A18	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.35	1.29	0.00	0.00	0.59	0.00
A18	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.35	1.65	0.00	0.00	0.71	0.00
A18	2023-06-09	0.00	0.00	0.12	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
A18	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.47	0.12	0.00	0.00	0.35	0.00
A18	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.47	3.55	0.00	0.00	0.47	0.00
A18	2023-06-12	0.00	0.00	0.00	0.00	0.00	0.83	2.26	0.00	0.00	1.54	0.00
A18	2023-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
A18	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A18	2023-06-15	0.00	0.00	0.00	0.00	0.00	0.83	1.79	0.00	0.00	0.60	0.00
A18	2023-06-16	0.00	0.00	0.00	0.00	0.00	2.15	4.65	0.00	0.00	2.27	0.00
A18	2023-06-17	0.00	0.00	0.12	0.00	0.00	2.50	4.06	0.00	0.00	1.67	0.00
A18	2023-06-18	0.00	0.00	0.12	0.00	0.00	1.67	4.06	0.00	0.00	1.43	0.00
A18	2023-06-19	0.00	0.00	0.00	0.00	0.00	2.27	4.90	0.00	0.00	2.87	0.00
A18	2023-06-20	0.00	0.00	0.12	0.00	0.12	0.96	4.42	0.00	0.12	2.15	0.00
A18	2023-06-21	0.00	0.00	0.00	0.00	0.00	2.39	4.78	0.00	0.00	0.96	0.00
A18	2023-06-22	0.00	0.00	0.12	0.00	0.00	0.48	3.11	0.00	0.24	0.72	0.00
A18	2023-06-23	0.00	0.00	0.00	0.00	0.00	1.20	1.43	0.00	0.00	0.84	0.00
A18	2023-06-24	0.00	0.00	0.00	0.00	0.00	0.84	1.08	0.00	0.00	1.43	0.00
A18	2023-06-25	0.00	0.00	0.00	0.00	0.12	0.36	1.31	0.00	0.00	0.48	0.00
A18	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.60	0.12	0.00	0.00	0.24	0.00
A18	2023-06-27	0.00	0.00	0.00	0.00	0.00	2.62	13.69	0.00	0.00	3.33	0.00
A18	2023-06-28	0.00	0.00	0.00	0.00	0.00	0.60	1.90	0.00	0.00	0.83	0.00
A18	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.71	0.95	0.00	0.00	0.47	0.00
A18	2023-06-30	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.36	0.00
A18	2023-07-01	0.00	0.00	0.00	0.00	0.00	1.42	19.41	0.00	0.00	4.26	0.00
A18	2023-07-02	0.00	0.00	0.00	0.00	0.00	0.59	9.21	0.00	0.00	1.30	0.00
A18	2023-07-03	0.00	0.00	0.00	0.00	0.00	2.35	7.18	0.00	0.12	2.47	0.00
A18	2023-07-04	0.00	0.00	0.12	0.00	0.00	0.82	2.35	0.00	0.00	0.47	0.00
A18	2023-07-05	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00
A18	2023-07-06	0.00	0.00	0.00	0.00	0.00	2.45	9.69	0.00	0.12	3.74	0.00
A18	2023-07-07	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.12	0.00
A18	2023-07-08	0.00	0.00	0.00	0.00	0.00	1.98	4.65	0.00	0.00	1.28	0.00
A18	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.12	0.93	0.00	0.00	0.12	0.00
A18	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A18	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A18	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A18	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2023-05-29	0.46	0.00	0.11	0.00	0.11	0.46	0.80	0.00	0.00	0.11	0.00
B2	2023-05-30	0.00	0.00	0.23	0.00	0.34	0.11	1.26	0.00	0.11	0.11	0.00
B2	2023-05-31	0.00	0.00	0.00	0.00	0.46	0.00	0.80	0.00	0.00	0.00	0.00
B2	2023-06-01	0.12	0.00	0.00	0.00	0.12	0.12	1.38	0.00	0.23	0.12	0.00
B2	2023-06-02	0.00	0.00	0.35	0.00	0.12	0.00	0.58	0.00	0.00	0.00	0.00
B2	2023-06-03	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
B2	2023-06-04	0.12	0.00	0.23	0.00	0.23	0.00	1.28	0.00	0.12	0.00	0.00
B2	2023-06-05	0.00	0.00	0.00	0.00	0.12	0.23	0.12	0.00	0.12	0.00	0.00
B2	2023-06-06	0.23	0.00	0.47	0.00	0.00	1.52	1.05	0.00	0.00	0.00	0.00
B2	2023-06-07	0.12	0.00	0.12	0.00	0.12	0.12	0.35	0.00	0.12	0.23	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
B2	2023-06-08	0.12	0.00	0.35	0.00	0.12	1.65	1.41	0.00	0.00	0.47	0.00
B2	2023-06-09	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.12	0.35	0.00	0.00	0.00	0.00
B2	2023-06-11	0.00	0.00	0.24	0.00	0.12	0.12	0.24	0.00	0.00	0.00	0.00
B2	2023-06-12	0.00	0.00	0.12	0.00	0.00	0.59	0.95	0.00	0.00	0.00	0.00
B2	2023-06-13	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2023-06-14	0.00	0.00	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
B2	2023-06-15	0.00	0.00	0.12	0.00	0.12	0.00	0.48	0.00	0.00	0.24	0.00
B2	2023-06-16	0.12	0.00	0.12	0.00	0.12	0.24	0.48	0.00	0.00	0.12	0.00
B2	2023-06-17	0.12	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.24	0.00
B2	2023-06-18	0.00	0.00	0.00	0.00	0.00	0.48	0.72	0.00	0.12	0.00	0.00
B2	2023-06-19	0.00	0.00	0.00	0.00	0.00	0.24	1.31	0.00	0.36	0.24	0.00
B2	2023-06-20	0.00	0.00	0.12	0.00	0.00	0.24	0.36	0.00	0.00	0.12	0.00
B2	2023-06-21	0.00	0.00	0.24	0.00	0.12	0.00	0.48	0.00	0.12	0.24	0.00
B2	2023-06-22	0.00	0.00	0.00	0.00	0.36	0.60	0.12	0.00	0.00	0.12	0.00
B2	2023-06-23	0.00	0.00	0.12	0.00	0.00	0.48	0.24	0.00	0.00	0.00	0.00
B2	2023-06-24	0.00	0.00	0.00	0.00	0.24	0.36	0.48	0.00	0.00	0.00	0.00
B2	2023-06-25	0.00	0.00	0.00	0.00	0.12	0.72	0.36	0.00	0.00	0.24	0.00
B2	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.12	0.00
B2	2023-06-27	0.00	0.00	0.00	0.00	0.12	2.38	0.83	0.00	0.00	0.36	0.00
B2	2023-06-28	0.00	0.00	0.36	0.00	0.00	0.00	0.83	0.00	0.00	0.12	0.00
B2	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2023-06-30	0.00	0.00	0.12	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
B2	2023-07-01	0.00	0.00	0.00	0.00	0.00	0.36	1.18	0.00	0.00	0.00	0.00
B2	2023-07-02	0.00	0.00	0.35	0.00	0.00	0.35	0.59	0.00	0.00	0.24	0.00
B2	2023-07-03	0.12	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.35	0.00
B2	2023-07-04	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
B2	2023-07-05	0.00	0.00	0.00	0.00	0.00	0.35	0.47	0.00	0.00	0.00	0.00
B2	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.93	1.52	0.00	0.47	0.12	0.00
B2	2023-07-07	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
B2	2023-07-08	0.00	0.00	0.12	0.00	0.00	0.00	2.44	0.00	0.47	1.74	0.00
B2	2023-07-09	0.00	0.00	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
B2	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2023-07-11	0.00	0.00	0.11	0.00	0.00	0.34	1.26	0.00	0.00	0.11	0.00
B2	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B19	2023-05-27	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.11	0.00
B19	2023-05-28	0.00	0.00	0.11	0.00	0.00	0.11	0.45	0.00	0.00	0.11	0.00
B19	2023-05-29	0.00	0.00	0.11	0.00	0.00	0.34	1.03	0.00	0.11	0.11	0.00
B19	2023-05-30	0.11	0.00	0.46	0.00	0.00	0.23	7.10	0.00	0.23	0.69	0.00
B19	2023-05-31	1.03	0.00	0.69	0.00	0.00	0.23	2.99	0.00	0.00	0.46	0.00
B19	2023-06-01	0.00	0.00	0.35	0.00	0.00	0.23	0.92	0.00	0.00	0.12	0.00
B19	2023-06-02	0.00	0.00	0.12	0.00	0.00	0.12	0.23	0.00	0.00	0.23	0.00
B19	2023-06-03	0.00	0.00	0.23	0.00	0.00	0.23	0.81	0.00	0.00	0.46	0.00
B19	2023-06-04	0.00	0.00	0.47	0.00	0.00	0.47	2.79	0.00	0.12	0.81	0.00
B19	2023-06-05	0.00	0.00	0.23	0.00	0.35	1.52	1.05	0.00	0.00	0.47	0.00
B19	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.12	0.23	0.00	0.35	0.35	0.00
B19	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.12	0.23	0.00	0.00	0.12	0.00
B19	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.12	0.94	0.00	0.00	0.00	0.00
B19	2023-06-09	0.00	0.00	0.12	0.00	0.00	0.00	1.06	0.00	0.00	0.24	0.00
B19	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
B19	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
B19	2023-06-12	0.00	0.00	0.00	0.00	0.00	1.31	0.59	0.00	0.00	0.36	0.00
B19	2023-06-13	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.00	0.00	0.48	0.00
B19	2023-06-14	0.00	0.00	0.48	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
B19	2023-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
B19	2023-06-16	0.00	0.00	0.12	0.00	0.00	0.24	0.36	0.00	0.00	0.24	0.00
B19	2023-06-17	0.00	0.00	0.00	0.00	0.12	0.12	0.48	0.00	0.00	0.00	0.00
B19	2023-06-18	0.00	0.00	0.24	0.00	0.00	0.48	1.55	0.00	0.00	0.60	0.00
B19	2023-06-19	0.00	0.00	0.12	0.00	0.00	0.12	2.75	0.00	0.00	0.36	0.00
B19	2023-06-20	0.00	0.00	0.24	0.00	0.00	0.96	0.72	0.00	0.12	0.36	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
B19	2023-06-21	0.00	0.00	0.12	0.00	0.12	0.36	0.24	0.00	0.00	0.00	0.00
B19	2023-06-22	0.00	0.00	0.00	0.00	0.00	0.12	1.08	0.00	0.00	0.00	0.00
B19	2023-06-23	0.00	0.00	0.00	0.00	0.00	0.12	0.96	0.00	0.00	0.24	0.00
B19	2023-06-24	0.00	0.00	0.24	0.00	0.00	0.12	1.55	0.00	0.00	0.00	0.00
B19	2023-06-25	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.12	0.00
B19	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.24	0.83	0.00	0.00	0.00	0.00
B19	2023-06-27	0.00	0.00	0.12	0.00	0.00	0.36	0.60	0.00	0.00	0.24	0.00
B19	2023-06-28	0.00	0.00	0.48	0.00	0.24	0.48	0.60	0.00	0.00	0.12	0.00
B19	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.24	0.00
B19	2023-06-30	0.00	0.00	0.12	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
B19	2023-07-01	0.00	0.00	0.24	0.00	0.00	0.59	1.07	0.00	0.00	0.36	0.00
B19	2023-07-02	0.00	0.00	0.00	0.00	0.00	0.35	1.42	0.00	0.00	0.47	0.00
B19	2023-07-03	0.00	0.00	0.12	0.00	0.00	0.82	0.47	0.00	0.00	0.24	0.00
B19	2023-07-04	0.00	0.00	0.12	0.00	0.00	0.00	0.35	0.00	0.00	0.35	0.00
B19	2023-07-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B19	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.35	1.05	0.00	0.00	0.00	0.00
B19	2023-07-07	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B19	2023-07-08	0.00	0.00	0.00	0.12	0.00	0.12	1.05	0.00	0.12	0.93	0.00
B19	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B19	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B19	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.34	0.11	0.00	0.00	0.23	0.00
B19	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B19	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C10	2023-05-29	0.00	0.00	0.23	0.00	0.00	0.91	1.37	0.00	0.00	0.46	0.00
C10	2023-05-30	0.00	0.00	0.34	0.00	0.11	0.80	1.83	0.00	0.00	0.34	0.00
C10	2023-05-31	0.00	0.00	0.11	0.00	0.11	0.23	1.26	0.00	0.00	0.23	0.00
C10	2023-06-01	0.00	0.00	0.92	0.00	0.23	1.15	2.99	0.00	0.00	0.69	0.00
C10	2023-06-02	0.00	0.00	0.12	0.00	0.00	0.23	1.85	0.00	0.00	0.35	0.00
C10	2023-06-03	0.00	0.00	0.12	0.00	0.00	0.70	0.70	0.00	0.00	0.23	0.00
C10	2023-06-04	0.00	0.00	0.47	0.00	0.12	0.81	1.28	0.00	0.00	0.47	0.00
C10	2023-06-05	0.00	0.00	0.12	0.00	0.00	0.47	3.62	0.00	0.00	0.82	0.00
C10	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.00	0.00	0.12	0.00
C10	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.59	0.59	0.00	0.00	0.59	0.00
C10	2023-06-08	0.00	0.00	1.06	0.00	0.00	0.35	2.24	0.00	0.00	0.47	0.00
C10	2023-06-09	0.00	0.00	0.00	0.00	0.00	0.24	0.47	0.00	0.00	0.47	0.00
C10	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.24	0.00
C10	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.00	0.00
C10	2023-06-12	0.00	0.00	0.24	0.00	0.00	0.83	1.54	0.00	0.00	0.48	0.00
C10	2023-06-13	0.00	0.00	0.00	0.00	0.12	0.00	0.36	0.00	0.00	0.12	0.00
C10	2023-06-14	0.00	0.00	0.12	0.00	0.12	0.12	0.24	0.00	0.00	0.36	0.00
C10	2023-06-15	0.00	0.00	0.12	0.00	0.12	0.24	0.60	0.00	0.00	0.36	0.00
C10	2023-06-16	0.00	0.00	0.48	0.00	0.00	0.00	0.95	0.00	0.00	0.24	0.00
C10	2023-06-17	0.00	0.00	0.12	0.00	0.00	0.24	0.60	0.00	0.00	0.36	0.00
C10	2023-06-18	0.00	0.00	0.36	0.00	0.12	0.24	0.60	0.00	0.00	0.24	0.00
C10	2023-06-19	0.00	0.00	0.24	0.00	0.00	0.48	1.20	0.00	0.00	0.60	0.00
C10	2023-06-20	0.00	0.00	0.00	0.00	0.12	0.24	1.43	0.00	0.00	0.24	0.00
C10	2023-06-21	0.00	0.00	0.00	0.00	0.00	0.60	1.43	0.00	0.12	0.84	0.00
C10	2023-06-22	0.00	0.00	0.00	0.00	0.00	0.12	1.20	0.00	0.00	0.24	0.00
C10	2023-06-23	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.24	0.00
C10	2023-06-24	0.00	0.00	0.36	0.00	0.00	0.72	2.39	0.00	0.00	0.96	0.00
C10	2023-06-25	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.72	0.00
C10	2023-06-26	0.12	0.00	0.36	0.00	0.12	0.24	0.48	0.00	0.00	0.24	0.00
C10	2023-06-27	0.00	0.00	0.24	0.00	0.00	0.71	1.55	0.00	0.12	0.24	0.00
C10	2023-06-28	0.00	0.00	0.24	0.00	0.00	0.48	4.76	0.00	0.00	0.36	0.00
C10	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.24	0.71	0.00	0.00	0.12	0.00
C10	2023-06-30	0.00	0.00	0.00	0.00	0.00	0.36	0.83	0.00	0.00	0.71	0.00
C10	2023-07-01	0.24	0.00	1.42	0.00	0.12	0.12	2.49	0.00	0.00	0.83	0.00
C10	2023-07-02	0.00	0.00	0.00	0.00	0.00	0.35	3.66	0.00	0.00	1.30	0.00
C10	2023-07-03	0.00	0.00	0.12	0.00	0.00	0.71	1.06	0.00	0.12	0.35	0.00
C10	2023-07-04	0.00	0.00	0.00	0.00	0.00	0.59	1.17	0.00	0.00	0.23	0.00
C10	2023-07-05	0.00	0.00	0.00	0.00	0.00	0.12	0.82	0.00	0.00	0.23	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C10	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.23	2.10	0.00	0.12	0.70	0.00
C10	2023-07-07	0.00	0.00	0.00	0.00	0.00	0.23	0.35	0.00	0.00	0.23	0.00
C10	2023-07-08	0.00	0.00	0.12	0.00	0.12	0.23	0.93	0.00	0.00	0.35	0.00
C10	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
C10	2023-07-10	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C10	2023-07-11	0.00	0.00	0.34	0.00	0.00	0.23	0.69	0.00	0.46	0.11	0.00
C10	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C10	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C12	2023-05-28	0.00	0.00	0.68	0.00	0.34	0.11	1.93	0.00	0.11	0.34	0.00
C12	2023-05-29	0.00	0.00	0.46	0.00	0.00	0.00	0.91	0.00	0.00	0.57	0.00
C12	2023-05-30	0.11	0.00	0.46	0.00	0.23	0.57	1.95	0.00	0.11	0.92	0.00
C12	2023-05-31	0.23	0.00	0.11	0.00	0.23	0.69	4.25	0.00	0.11	0.57	0.00
C12	2023-06-01	0.12	0.00	0.58	0.00	0.23	0.58	4.38	0.00	0.23	1.15	0.00
C12	2023-06-02	0.00	0.00	0.35	0.00	0.00	1.04	2.77	0.00	0.00	0.58	0.00
C12	2023-06-03	0.12	0.00	0.81	0.00	0.35	0.58	3.48	0.00	0.00	1.39	0.00
C12	2023-06-04	0.00	0.00	1.05	0.00	0.12	0.58	5.46	0.00	0.23	0.81	0.00
C12	2023-06-05	0.00	0.00	0.82	0.00	0.70	0.47	1.98	0.00	0.00	0.82	0.00
C12	2023-06-06	0.00	0.00	1.17	0.00	1.05	0.47	3.40	0.00	0.12	1.41	0.00
C12	2023-06-07	0.00	0.00	1.41	0.00	0.70	0.23	2.23	0.00	0.00	1.29	0.00
C12	2023-06-08	0.00	0.00	0.71	0.00	0.12	0.35	1.18	0.00	0.00	0.71	0.00
C12	2023-06-09	0.00	0.00	0.35	0.00	0.00	0.00	0.35	0.00	0.00	0.12	0.00
C12	2023-06-10	0.00	0.00	2.36	0.00	0.47	0.35	1.06	0.00	0.00	0.59	0.00
C12	2023-06-11	0.00	0.00	0.59	0.00	0.12	0.47	1.89	0.00	0.00	0.71	0.00
C12	2023-06-12	0.00	0.00	0.71	0.00	0.36	0.36	1.66	0.00	0.00	0.95	0.00
C12	2023-06-13	0.00	0.00	0.59	0.00	0.12	0.12	0.59	0.00	0.00	0.00	0.00
C12	2023-06-14	0.00	0.00	1.31	0.00	0.83	0.00	0.12	0.00	0.00	0.36	0.00
C12	2023-06-15	0.00	0.00	1.19	0.00	0.12	0.12	0.71	0.00	0.12	0.12	0.00
C12	2023-06-16	0.24	0.00	1.19	0.00	0.60	0.12	1.55	0.00	0.12	0.36	0.00
C12	2023-06-17	0.12	0.00	1.67	0.00	1.07	0.48	1.79	0.00	0.00	0.36	0.00
C12	2023-06-18	0.00	0.00	1.20	0.00	0.48	0.72	2.15	0.00	0.00	0.24	0.00
C12	2023-06-19	0.00	0.00	1.43	0.00	0.60	0.24	1.08	0.00	0.00	0.12	0.00
C12	2023-06-20	0.36	0.00	1.31	0.00	0.96	0.96	0.48	0.00	0.00	0.36	0.00
C12	2023-06-21	0.00	0.00	1.20	0.00	0.60	0.48	1.31	0.00	0.00	0.12	0.00
C12	2023-06-22	0.12	0.00	2.51	0.00	1.67	0.36	0.72	0.00	0.00	0.00	0.00
C12	2023-06-23	0.00	0.00	0.96	0.00	0.36	0.24	0.84	0.00	0.00	0.12	0.00
C12	2023-06-24	0.00	0.00	1.31	0.00	0.36	0.72	1.20	0.00	0.00	0.36	0.00
C12	2023-06-25	0.12	0.00	0.95	0.00	0.24	0.60	0.95	0.00	0.00	0.00	0.00
C12	2023-06-26	0.00	0.00	0.83	0.00	0.60	0.00	1.79	0.00	0.00	0.48	0.00
C12	2023-06-27	0.00	0.00	1.55	0.00	0.48	0.60	2.02	0.00	0.00	0.60	0.00
C12	2023-06-28	0.00	0.00	1.31	0.00	0.48	0.36	1.43	0.00	0.00	0.60	0.00
C12	2023-06-29	0.00	0.00	0.12	0.00	0.36	0.12	0.00	0.00	0.00	0.36	0.00
C12	2023-06-30	0.00	0.00	0.71	0.00	0.47	0.36	1.18	0.00	0.00	0.24	0.00
C12	2023-07-01	0.00	0.00	2.01	0.00	0.59	0.24	1.07	0.00	0.00	0.36	0.00
C12	2023-07-02	0.00	0.00	0.59	0.00	0.00	0.24	1.77	0.00	0.00	0.71	0.00
C12	2023-07-03	0.12	0.00	0.47	0.00	0.12	0.47	1.88	0.00	0.00	0.71	0.00
C12	2023-07-04	0.00	0.00	1.06	0.00	0.23	0.12	0.70	0.00	0.00	0.35	0.00
C12	2023-07-05	0.12	0.00	0.47	0.00	0.23	0.70	0.58	0.00	0.00	0.58	0.00
C12	2023-07-06	0.00	0.00	0.47	0.00	0.12	0.47	0.70	0.00	0.00	0.12	0.00
C12	2023-07-07	0.00	0.00	0.23	0.00	0.23	0.35	0.58	0.00	0.00	0.23	0.00
C12	2023-07-08	0.12	0.00	0.81	0.00	0.23	0.23	0.81	0.00	0.12	0.47	0.00
C12	2023-07-09	0.00	0.00	0.35	0.00	0.12	0.12	0.00	0.00	0.00	0.00	0.00
C12	2023-07-10	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C12	2023-07-11	0.00	0.00	0.57	0.00	0.69	0.69	0.92	0.00	0.00	1.15	0.00
C12	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C12	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C13	2023-05-25	0.00	0.00	0.34	0.00	0.22	0.34	2.24	0.00	0.00	0.11	0.00
C13	2023-05-26	0.00	0.00	0.34	0.00	0.00	0.23	0.79	0.00	0.00	0.00	0.00
C13	2023-05-27	0.00	0.00	0.00	0.00	0.00	0.11	1.02	0.00	0.00	0.23	0.00
C13	2023-05-28	0.00	0.00	0.11	0.00	0.11	0.23	1.59	0.00	0.00	0.57	0.00
C13	2023-05-29	0.00	0.00	0.11	0.00	0.00	0.23	3.54	0.00	0.00	0.91	0.00
C13	2023-05-30	0.00	0.00	0.34	0.00	0.34	0.34	3.55	0.00	0.11	1.72	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C13	2023-05-31	0.00	0.00	0.11	0.00	0.11	0.23	1.15	0.00	0.00	0.69	0.00
C13	2023-06-01	0.00	0.00	0.00	0.00	0.35	0.00	3.11	0.00	0.00	1.38	0.00
C13	2023-06-02	0.00	0.00	0.00	0.00	0.00	0.23	3.01	0.00	0.00	0.69	0.00
C13	2023-06-03	0.00	0.00	0.35	0.00	0.00	0.46	0.70	0.00	0.00	0.46	0.00
C13	2023-06-04	0.00	0.00	0.00	0.00	0.23	0.23	2.09	0.00	0.00	0.58	0.00
C13	2023-06-05	0.00	0.00	0.23	0.00	0.12	0.47	1.75	0.00	0.12	0.23	0.00
C13	2023-06-06	0.00	0.00	0.47	0.00	0.35	0.12	0.59	0.00	0.00	0.12	0.00
C13	2023-06-07	0.12	0.00	1.06	0.00	0.00	0.23	0.70	0.00	0.00	0.35	0.00
C13	2023-06-08	0.00	0.00	0.47	0.00	0.12	0.24	0.94	0.00	0.00	0.24	0.00
C13	2023-06-09	0.00	0.00	0.12	0.00	0.12	0.12	0.59	0.00	0.00	0.12	0.00
C13	2023-06-10	0.00	0.00	0.47	0.00	0.12	0.00	0.71	0.00	0.00	0.12	0.00
C13	2023-06-11	0.00	0.00	0.47	0.00	0.36	0.12	1.07	0.00	0.00	0.24	0.00
C13	2023-06-12	0.00	0.00	0.36	0.00	0.36	0.36	1.54	0.00	0.24	0.24	0.00
C13	2023-06-13	0.00	0.00	0.00	0.00	0.12	0.36	0.48	0.00	0.00	0.48	0.00
C13	2023-06-14	0.00	0.00	0.36	0.00	0.00	0.00	0.24	0.00	0.00	0.12	0.00
C13	2023-06-15	0.00	0.00	0.24	0.00	0.12	0.24	0.24	0.00	0.00	0.36	0.00
C13	2023-06-16	0.00	0.00	0.24	0.00	0.60	0.36	1.31	0.00	0.00	0.00	0.00
C13	2023-06-17	0.00	0.00	0.12	0.00	0.12	0.24	1.67	0.00	0.12	0.24	0.00
C13	2023-06-18	0.00	0.00	0.12	0.00	0.36	0.36	1.55	0.00	0.00	0.96	0.00
C13	2023-06-19	0.00	0.00	0.24	0.00	1.67	0.48	1.91	0.00	0.00	1.20	0.00
C13	2023-06-20	0.00	0.00	0.12	0.00	0.60	0.84	2.63	0.00	0.00	1.08	0.00
C13	2023-06-21	0.00	0.00	0.12	0.00	0.00	0.48	1.20	0.00	0.00	0.48	0.00
C13	2023-06-22	0.00	0.00	0.00	0.00	0.12	0.12	0.48	0.00	0.00	0.60	0.00
C13	2023-06-23	0.36	0.00	0.24	0.00	0.00	0.24	1.08	0.00	0.00	0.12	0.00
C13	2023-06-24	0.00	0.00	0.24	0.00	0.12	0.24	1.08	0.00	0.00	0.72	0.00
C13	2023-06-25	0.00	0.00	0.00	0.00	0.00	0.48	1.31	0.00	0.00	0.24	0.00
C13	2023-06-26	0.00	0.00	0.24	0.00	0.12	0.95	1.07	0.00	0.00	1.07	0.00
C13	2023-06-27	0.00	0.00	0.00	0.00	0.00	0.48	1.31	0.00	0.00	0.95	0.00
C13	2023-06-28	0.00	0.00	1.07	0.00	0.24	0.48	2.86	0.00	0.00	0.48	0.00
C13	2023-06-29	0.12	0.00	0.12	0.00	0.24	0.47	1.90	0.00	0.00	0.83	0.00
C13	2023-06-30	0.00	0.00	0.00	0.00	0.24	0.71	2.60	0.00	0.00	0.83	0.00
C13	2023-07-01	0.00	0.00	0.12	0.00	0.47	0.47	3.55	0.00	0.00	0.36	0.00
C13	2023-07-02	0.00	0.00	0.35	0.00	0.00	1.30	2.83	0.00	0.00	1.06	0.00
C13	2023-07-03	0.00	0.00	0.35	0.00	0.47	0.59	2.12	0.00	0.00	0.71	0.00
C13	2023-07-04	0.00	0.00	0.12	0.00	0.12	0.12	0.82	0.00	0.00	0.35	0.00
C13	2023-07-05	0.00	0.00	0.23	0.00	0.12	0.00	0.00	0.00	0.00	0.23	0.00
C13	2023-07-06	0.00	0.00	3.27	0.00	2.92	0.58	0.82	0.00	0.47	1.17	0.00
C13	2023-07-07	0.00	0.00	0.12	0.00	0.47	0.00	0.35	0.00	0.12	0.23	0.00
C14	2023-05-29	0.00	0.00	0.00	0.00	0.00	0.11	0.34	0.00	0.00	0.00	0.00
C14	2023-05-30	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.11	0.00
C14	2023-05-31	0.00	0.00	0.00	0.00	0.34	0.00	0.46	0.00	0.00	0.00	0.00
C14	2023-06-01	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.46	0.00
C14	2023-06-02	0.00	0.00	0.12	0.00	0.35	0.00	1.62	0.00	0.00	0.23	0.00
C14	2023-06-03	0.00	0.00	0.00	0.00	0.23	0.12	0.58	0.00	0.00	0.58	0.23
C14	2023-06-04	0.00	0.00	0.00	0.00	0.23	0.12	0.58	0.00	0.12	0.93	0.00
C14	2023-06-05	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.12	0.00
C14	2023-06-06	0.00	0.00	0.12	0.00	0.23	0.35	0.23	0.00	0.00	0.00	0.00
C14	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.35	0.00
C14	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.35	0.00
C14	2023-06-09	0.00	0.00	0.12	0.00	0.00	0.00	0.47	0.00	0.00	0.12	0.00
C14	2023-06-10	0.00	0.00	0.12	0.00	0.00	0.12	0.12	0.00	0.00	0.12	0.00
C14	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.36	0.00
C14	2023-06-12	0.00	0.00	0.12	0.00	0.00	0.00	0.24	0.00	0.00	0.12	0.00
C14	2023-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
C14	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
C14	2023-06-15	0.00	0.00	0.00	0.00	0.00	0.12	0.71	0.00	0.00	0.12	0.00
C14	2023-06-16	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.24	0.00
C14	2023-06-17	0.00	0.00	0.00	0.00	0.12	0.00	0.12	0.00	0.00	0.12	0.12
C14	2023-06-18	0.00	0.00	0.00	0.00	0.12	0.12	0.72	0.00	0.00	0.12	0.00
C14	2023-06-19	0.00	0.00	0.00	0.00	0.00	0.24	0.84	0.00	0.00	0.24	0.00
C14	2023-06-20	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.24	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C14	2023-06-21	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.12	0.00
C14	2023-06-22	0.00	0.00	0.00	0.00	0.00	0.36	0.48	0.00	0.00	0.12	0.00
C14	2023-06-23	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.24	0.00
C14	2023-06-24	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.24	0.00
C14	2023-06-25	0.00	0.00	0.00	0.00	0.12	0.00	0.12	0.00	0.00	0.12	0.00
C14	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
C14	2023-06-27	0.00	0.00	0.00	0.00	0.00	0.12	0.60	0.00	0.00	0.36	0.00
C14	2023-06-28	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.12	0.00
C14	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.12	0.00
C14	2023-06-30	0.00	0.00	0.00	0.00	0.00	0.12	0.47	0.00	0.12	0.24	0.00
C14	2023-07-01	0.00	0.00	0.00	0.00	0.00	0.36	1.66	0.00	0.00	0.36	0.00
C14	2023-07-02	0.00	0.00	0.00	0.00	0.00	0.35	1.54	0.00	0.00	0.83	0.00
C14	2023-07-03	0.00	0.00	0.12	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
C14	2023-07-04	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.23	0.00
C14	2023-07-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
C14	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.12	0.23	0.00
C14	2023-07-07	0.00	0.00	0.00	0.00	0.12	0.23	0.23	0.00	0.00	0.00	0.00
C14	2023-07-08	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.47	0.00
C14	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.23	0.12	0.00	0.00	0.12	0.00
C14	2023-07-10	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C14	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	2.41	0.00
C14	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C14	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C16	2023-05-27	0.00	0.00	0.56	0.00	0.00	0.34	4.41	0.00	0.00	1.13	0.00
C16	2023-05-28	0.00	0.00	0.11	0.00	0.00	0.34	2.38	0.00	0.11	0.23	0.00
C16	2023-05-29	0.00	0.00	0.57	0.00	0.00	2.62	0.80	0.00	0.00	0.34	0.00
C16	2023-05-30	0.00	0.00	0.23	0.00	0.11	0.46	1.72	0.00	0.00	0.23	0.00
C16	2023-05-31	0.00	0.00	0.80	0.00	0.00	0.69	6.32	0.00	0.34	1.03	0.00
C16	2023-06-01	0.00	0.00	0.46	0.00	0.23	1.15	1.61	0.00	0.23	0.46	0.00
C16	2023-06-02	0.00	0.00	0.12	0.00	0.35	1.39	3.35	0.00	0.00	1.16	0.00
C16	2023-06-03	0.00	0.00	0.58	0.00	0.00	1.28	2.55	0.00	0.00	0.58	0.00
C16	2023-06-04	0.00	0.00	0.23	0.00	0.00	1.74	5.00	0.00	0.12	0.70	0.00
C16	2023-06-05	0.00	0.00	0.58	0.00	0.00	2.33	2.33	0.00	0.12	0.47	0.00
C16	2023-06-06	0.00	0.00	0.70	0.00	0.00	5.51	1.87	0.00	0.35	1.29	0.00
C16	2023-06-07	0.00	0.00	0.47	0.00	0.00	4.46	2.82	0.00	0.35	0.82	0.00
C16	2023-06-08	0.00	0.00	0.59	0.00	0.00	4.24	2.71	0.00	0.12	1.06	0.00
C16	2023-06-09	0.00	0.00	1.06	0.00	0.00	0.47	1.18	0.00	0.12	0.24	0.00
C16	2023-06-10	0.00	0.00	0.47	0.00	0.00	0.00	2.60	0.00	0.00	0.12	0.00
C16	2023-06-11	0.00	0.00	0.36	0.00	0.00	3.31	2.01	0.00	0.00	0.71	0.00
C16	2023-06-12	0.00	0.00	0.48	0.00	0.00	8.79	2.14	0.00	0.00	0.24	0.00
C16	2023-06-13	0.00	0.00	0.48	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
C16	2023-06-14	0.00	0.00	0.12	0.00	0.00	0.00	0.24	0.00	0.00	0.12	0.00
C16	2023-06-15	0.00	0.00	0.48	0.00	0.00	4.40	2.26	0.00	0.00	0.71	0.00
C16	2023-06-16	0.00	0.00	0.00	0.00	0.00	1.67	3.10	0.00	0.00	0.83	0.00
C16	2023-06-17	0.00	0.00	0.00	0.00	0.00	0.48	2.86	0.00	0.24	0.60	0.00
C16	2023-06-18	0.00	0.00	0.72	0.00	0.00	0.84	0.36	0.00	0.00	0.24	0.00
C16	2023-06-19	0.00	0.00	0.72	0.00	0.00	1.67	0.60	0.00	0.00	1.08	0.00
C16	2023-06-20	0.00	0.00	0.36	0.00	0.00	1.67	0.84	0.00	0.00	1.31	0.00
C16	2023-06-21	0.00	0.00	0.24	0.00	0.00	1.08	1.91	0.00	0.12	0.12	0.00
C16	2023-06-22	0.00	0.00	0.96	0.00	0.00	1.91	0.84	0.00	0.00	0.36	0.00
C16	2023-06-23	0.24	0.00	0.24	0.00	0.00	0.60	2.03	0.00	0.00	0.36	0.00
C16	2023-06-24	0.12	0.00	0.48	0.00	0.00	0.72	0.96	0.00	0.12	0.72	0.00
C16	2023-06-25	0.00	0.00	0.12	0.00	0.00	4.41	1.31	0.00	0.00	1.31	0.00
C16	2023-06-26	0.00	0.00	0.72	0.00	0.00	0.72	0.72	0.00	0.12	0.24	0.00
C16	2023-06-27	0.00	0.00	0.60	0.00	0.00	2.14	5.12	0.00	0.12	1.67	0.00
C16	2023-06-28	0.12	0.00	0.12	0.00	0.00	1.31	2.02	0.00	0.00	2.02	0.00
C16	2023-06-29	0.00	0.00	0.71	0.00	0.00	2.85	6.76	0.00	0.12	1.07	0.00
C16	2023-06-30	0.00	0.00	0.12	0.00	0.00	1.07	1.78	0.00	0.00	0.71	0.00
C16	2023-07-01	0.00	0.00	0.12	0.00	0.00	0.24	1.54	0.00	0.00	0.71	0.00
C16	2023-07-02	0.00	0.00	0.24	0.00	0.00	0.59	0.71	0.00	0.00	2.36	0.00
C16	2023-07-03	0.00	0.00	0.24	0.00	0.00	0.71	4.82	0.00	0.00	1.18	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C16	2023-07-04	0.00	0.00	0.12	0.23	0.00	0.00	4.11	0.00	0.59	0.47	0.00
C16	2023-07-05	0.00	0.00	0.23	0.00	0.00	0.23	1.40	0.00	0.23	0.12	0.00
C16	2023-07-06	0.00	0.00	0.12	0.00	0.00	0.93	4.09	0.00	0.12	21.36	0.00
C16	2023-07-07	0.00	0.00	0.23	0.00	0.00	0.93	1.51	0.00	0.00	0.23	0.00
C16	2023-07-08	0.00	0.00	0.00	0.00	0.00	0.23	1.86	0.00	0.47	5.46	0.00
C16	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.00	0.00
C16	2023-07-11	0.00	0.00	1.15	0.00	0.00	1.61	6.54	0.00	1.15	2.52	0.00
C16	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C16	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C17	2023-05-28	0.34	0.00	0.11	0.00	0.34	0.34	4.20	0.00	0.00	0.11	0.00
C17	2023-05-29	0.57	0.00	0.23	0.00	0.00	0.46	2.28	0.00	0.34	0.46	0.00
C17	2023-05-30	2.18	0.00	0.46	0.00	1.60	0.23	4.35	0.00	0.00	0.34	0.00
C17	2023-05-31	0.00	0.00	0.00	0.00	0.11	0.11	5.86	0.00	0.00	0.11	0.00
C17	2023-06-01	0.00	0.00	0.00	0.00	0.00	0.23	6.68	0.00	0.12	0.35	0.00
C17	2023-06-02	0.46	0.00	0.12	0.00	0.00	0.12	14.22	0.00	0.23	1.39	0.00
C17	2023-06-03	0.00	0.00	0.12	0.12	0.12	0.12	0.58	0.00	0.00	0.12	0.00
C17	2023-06-04	0.58	0.00	0.00	0.00	0.23	0.23	11.16	0.00	0.35	1.74	0.00
C17	2023-06-05	0.00	0.00	0.00	0.00	0.00	0.47	3.74	0.00	0.00	0.12	0.00
C17	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.23	1.87	0.00	0.12	0.00	0.00
C17	2023-06-07	0.00	0.00	0.00	0.00	0.00	3.05	3.87	0.00	0.00	0.82	0.00
C17	2023-06-08	0.00	0.00	0.12	0.00	0.00	6.00	5.88	0.00	0.12	0.59	0.00
C17	2023-06-09	0.00	0.00	0.12	0.00	0.12	0.24	2.71	0.00	0.00	0.24	0.00
C17	2023-06-10	0.00	0.00	0.12	0.00	0.00	0.12	4.49	0.00	0.00	0.12	0.00
C17	2023-06-11	0.12	0.00	0.00	0.00	0.00	27.57	2.84	0.00	0.00	0.59	0.00
C17	2023-06-12	0.00	0.00	0.24	0.00	0.12	14.97	5.35	0.00	0.00	0.59	0.00
C17	2023-06-13	0.00	0.00	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
C17	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C17	2023-06-15	0.00	0.00	0.12	0.00	0.00	2.86	3.69	0.00	0.00	0.60	0.00
C17	2023-06-16	0.12	0.00	0.12	0.00	0.12	1.67	4.41	0.00	0.00	0.48	0.00
C17	2023-06-17	0.00	0.00	0.00	0.00	0.00	2.03	11.81	0.00	0.12	0.95	0.00
C17	2023-06-18	0.00	0.00	0.24	0.00	0.00	1.20	14.58	0.00	0.00	1.43	0.00
C17	2023-06-19	0.00	0.00	0.00	0.00	0.00	2.03	35.62	0.00	0.84	3.71	0.00
C17	2023-06-20	0.00	0.00	0.12	0.00	0.12	2.51	25.58	0.00	0.24	2.63	0.00
C17	2023-06-21	0.00	0.00	0.00	0.00	0.00	3.71	5.38	0.00	0.36	1.08	0.00
C17	2023-06-22	0.00	0.00	0.00	0.00	0.00	36.21	4.42	0.00	0.00	1.79	0.00
C17	2023-06-23	0.00	0.00	0.00	0.00	0.00	6.81	4.90	0.00	0.12	0.72	0.00
C17	2023-06-24	0.00	0.00	0.12	0.00	0.00	2.27	7.29	0.00	0.00	1.31	0.00
C17	2023-06-25	0.00	0.00	0.00	0.00	0.00	3.34	13.96	0.00	0.00	1.43	0.00
C17	2023-06-26	0.00	0.00	0.00	0.00	0.00	1.55	5.73	0.00	0.24	0.72	0.00
C17	2023-06-27	0.00	0.00	0.12	0.00	0.00	4.40	13.57	0.00	0.00	1.79	0.00
C17	2023-06-28	0.12	0.00	0.00	0.00	0.24	4.88	17.74	0.00	0.12	2.86	0.00
C17	2023-06-29	0.00	0.00	0.00	0.00	0.00	7.35	8.66	0.00	0.12	1.90	0.00
C17	2023-06-30	0.00	0.00	0.12	0.00	0.00	0.95	3.67	0.00	0.00	0.59	0.00
C17	2023-07-01	0.00	0.00	0.24	0.00	0.00	10.77	15.15	0.00	0.12	1.78	0.00
C17	2023-07-02	0.00	0.00	0.12	0.00	0.12	12.87	48.31	0.00	0.59	4.37	0.00
C17	2023-07-03	0.00	0.00	0.12	0.00	0.35	3.41	12.59	0.00	0.00	1.29	0.00
C17	2023-07-04	0.00	0.00	0.00	0.00	0.00	12.45	5.17	0.00	0.00	1.17	0.00
C17	2023-07-05	0.00	0.00	0.00	0.00	0.00	1.52	5.38	0.00	0.12	0.12	0.00
C17	2023-07-06	0.12	0.00	0.00	0.00	0.00	7.00	26.38	0.00	1.28	3.39	0.00
C17	2023-07-07	0.00	0.00	0.00	0.00	0.00	1.63	0.23	0.00	0.00	0.12	0.00
C17	2023-07-08	0.12	0.00	0.35	0.00	0.00	13.49	16.63	0.00	0.81	2.67	0.00
C17	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.69	0.46	0.00	0.00	0.00	0.00
C17	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C17	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C17	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C17	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C19	2023-05-27	0.11	0.00	0.11	0.00	0.00	0.11	2.03	0.00	0.00	0.56	0.00
C19	2023-05-28	0.00	0.00	0.34	0.00	0.00	0.34	0.79	0.00	0.00	0.23	0.00
C19	2023-05-29	0.11	0.00	0.00	0.00	0.00	0.91	1.60	0.00	0.00	0.46	0.00
C19	2023-05-30	0.11	0.00	0.23	0.00	0.00	0.57	2.52	0.00	0.11	0.23	0.00
C19	2023-05-31	0.00	0.00	0.34	0.00	0.11	0.34	1.38	0.00	0.00	0.34	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C19	2023-06-01	0.00	0.00	0.12	0.00	0.00	0.35	2.88	0.00	0.12	1.27	0.00
C19	2023-06-02	0.00	0.00	0.00	0.00	0.00	0.12	2.43	0.00	0.12	0.23	0.00
C19	2023-06-03	0.00	0.00	0.12	0.00	0.23	0.12	0.81	0.00	0.00	0.00	0.00
C19	2023-06-04	0.00	0.00	0.00	0.00	0.23	1.40	3.49	0.00	0.23	0.12	0.00
C19	2023-06-05	0.00	0.00	0.00	0.00	0.12	1.28	2.68	0.00	0.00	0.58	0.00
C19	2023-06-06	0.00	0.00	0.00	0.00	0.12	0.94	0.94	0.00	0.00	0.23	0.00
C19	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.82	0.23	0.00	0.00	0.12	0.00
C19	2023-06-08	0.12	0.00	0.00	0.00	0.00	1.88	3.18	0.00	0.00	0.82	0.00
C19	2023-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
C19	2023-06-10	0.00	0.00	0.12	0.00	0.00	0.24	1.42	0.00	0.00	0.71	0.00
C19	2023-06-11	0.00	0.00	0.00	0.00	0.00	1.89	1.42	0.00	0.00	0.24	0.00
C19	2023-06-12	0.00	0.00	0.00	0.00	0.00	0.12	0.71	0.00	0.00	0.00	0.00
C19	2023-06-13	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
C19	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C19	2023-06-15	0.00	0.00	0.12	0.00	0.00	2.14	0.83	0.00	0.00	0.24	0.00
C19	2023-06-16	0.00	0.00	0.00	0.00	0.00	1.31	1.79	0.00	0.12	0.24	0.00
C19	2023-06-17	0.00	0.00	0.12	0.00	0.12	0.36	2.27	0.00	0.12	0.60	0.00
C19	2023-06-18	0.12	0.00	0.12	0.00	0.12	0.96	2.87	0.00	0.00	0.36	0.00
C19	2023-06-19	0.00	0.00	0.24	0.00	0.00	0.84	1.08	0.00	0.00	0.12	0.00
C19	2023-06-20	0.00	0.00	0.00	0.00	0.12	1.31	3.11	0.00	0.00	0.72	0.00
C19	2023-06-21	0.00	0.00	0.24	0.00	0.00	1.79	3.47	0.00	0.00	0.48	0.00
C19	2023-06-22	0.00	0.00	0.00	0.00	0.12	0.84	1.55	0.00	0.00	0.24	0.00
C19	2023-06-23	0.00	0.00	0.00	0.00	0.00	4.42	1.31	0.00	0.00	0.36	0.00
C19	2023-06-24	0.00	0.00	0.12	0.00	0.00	2.03	2.51	0.00	0.00	0.36	0.00
C19	2023-06-25	0.00	0.00	0.00	0.00	0.00	2.27	1.07	0.00	0.00	0.72	0.00
C19	2023-06-26	0.00	0.00	0.12	0.00	0.12	0.24	1.19	0.00	0.00	0.48	0.00
C19	2023-06-27	0.00	0.00	0.12	0.00	0.00	0.60	2.14	0.00	0.00	0.24	0.00
C19	2023-06-28	0.00	0.00	0.12	0.00	0.00	0.71	0.95	0.00	0.00	0.12	0.00
C19	2023-06-29	0.00	0.00	0.00	0.00	0.00	2.73	2.25	0.00	0.00	0.83	0.00
C19	2023-06-30	0.00	0.00	0.00	0.00	0.00	0.36	1.07	0.00	0.00	0.12	0.00
C19	2023-07-01	0.00	0.00	0.12	0.00	0.00	0.36	2.72	0.00	0.00	15.27	0.00
C19	2023-07-02	0.24	0.00	0.00	0.00	0.00	1.06	1.54	0.00	0.00	13.94	0.00
C19	2023-07-03	0.00	0.00	0.12	0.00	0.00	1.18	3.65	0.00	0.00	7.06	0.00
C19	2023-07-04	0.00	0.00	0.35	0.00	0.00	0.47	3.52	0.00	0.00	1.41	0.00
C19	2023-07-05	0.12	0.00	0.23	0.00	0.12	0.00	0.58	0.00	0.00	0.00	0.00
C19	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.93	3.74	0.00	0.00	1.75	0.00
C19	2023-07-07	0.00	0.00	0.12	0.00	0.00	0.12	0.23	0.00	0.00	0.00	0.00
C19	2023-07-08	0.00	0.00	0.12	0.00	0.00	0.00	1.16	0.00	0.00	0.81	0.00
C19	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00
C19	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C19	2023-07-11	0.00	0.00	0.34	0.00	0.00	2.64	16.06	0.00	0.57	2.52	0.00
C19	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C19	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C24	2023-05-27	0.00	0.00	2.03	0.00	0.11	0.00	0.23	0.00	0.00	0.45	0.00
C24	2023-05-28	0.00	0.00	0.11	0.00	0.00	0.34	0.91	0.00	0.00	0.34	0.00
C24	2023-05-29	0.00	0.00	0.11	0.00	0.11	0.00	1.48	0.00	0.00	0.23	0.00
C24	2023-05-30	0.00	0.00	0.11	0.00	0.00	0.80	1.26	0.00	0.00	0.46	0.00
C24	2023-05-31	0.00	0.00	0.00	0.00	0.11	0.69	1.49	0.00	0.00	0.92	0.00
C24	2023-06-01	0.00	0.00	0.00	0.00	0.00	0.69	2.19	0.00	0.00	1.27	0.00
C24	2023-06-02	0.00	0.00	0.12	0.00	0.00	0.69	2.43	0.00	0.00	0.92	0.00
C24	2023-06-03	0.00	0.00	0.00	0.00	0.00	0.70	1.74	0.00	0.00	0.35	0.00
C24	2023-06-04	0.00	0.00	0.70	0.00	0.35	0.35	0.47	0.00	0.00	0.12	0.00
C24	2023-06-05	0.00	0.00	0.00	0.00	0.00	0.35	1.17	0.00	0.35	0.35	0.00
C24	2023-06-06	0.00	0.00	1.41	0.00	0.35	0.23	0.70	0.00	0.12	0.47	0.00
C24	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.35	1.88	0.00	0.00	0.23	0.00
C24	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.24	3.18	0.00	0.00	0.59	0.00
C24	2023-06-09	0.00	0.00	0.00	0.00	0.00	0.24	0.47	0.00	0.00	0.00	0.00
C24	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.24	0.59	0.00	0.00	0.35	0.00
C24	2023-06-11	0.00	0.00	0.12	0.00	0.00	0.24	1.78	0.00	0.00	0.59	0.00
C24	2023-06-12	0.00	0.00	0.00	0.00	0.00	0.24	2.97	0.00	0.00	0.59	0.00
C24	2023-06-13	0.00	0.00	0.00	0.00	0.00	0.48	0.12	0.00	0.00	0.12	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C24	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C24	2023-06-15	0.00	0.00	0.00	0.00	0.00	1.19	1.67	0.00	0.00	0.83	0.00
C24	2023-06-16	0.00	0.00	0.48	0.00	0.00	0.48	1.91	0.00	0.00	0.72	0.00
C24	2023-06-17	0.00	0.00	0.00	0.00	0.00	1.07	6.20	0.00	0.00	1.31	0.00
C24	2023-06-18	0.00	0.00	0.36	0.00	0.00	0.60	3.59	0.00	0.00	1.43	0.00
C24	2023-06-19	0.00	0.00	0.12	0.00	0.00	0.12	2.51	0.00	0.00	1.31	0.00
C24	2023-06-20	0.00	0.00	0.00	0.00	0.00	0.36	3.47	0.00	0.00	0.60	0.00
C24	2023-06-21	0.00	0.00	0.72	0.00	0.00	1.31	2.27	0.00	0.00	0.12	0.00
C24	2023-06-22	0.00	0.00	0.12	0.00	0.00	0.72	0.96	0.00	0.24	1.20	0.00
C24	2023-06-23	0.00	0.00	0.00	0.00	0.00	0.12	1.20	0.00	0.00	0.24	0.00
C24	2023-06-24	0.00	0.00	5.98	0.00	5.62	1.67	5.14	0.00	0.24	1.79	0.00
C24	2023-06-25	0.00	0.00	2.03	0.00	0.83	0.36	2.03	0.00	0.00	0.60	0.00
C24	2023-06-26	0.00	0.00	0.83	0.00	0.95	0.36	0.24	0.00	0.00	0.12	0.00
C24	2023-06-27	0.00	0.00	0.48	0.00	0.00	1.79	5.24	0.00	0.24	3.45	0.00
C24	2023-06-28	0.00	0.00	1.79	0.00	1.90	2.50	7.74	0.00	0.48	2.02	0.00
C24	2023-06-29	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.12	0.00
C24	2023-06-30	0.00	0.00	0.00	0.00	0.00	0.36	1.54	0.00	0.00	0.36	0.00
C24	2023-07-01	0.00	0.00	0.00	0.00	0.00	0.83	2.72	0.00	0.00	1.30	0.00
C24	2023-07-02	0.00	0.00	0.12	0.00	0.00	0.47	4.37	0.00	0.00	0.94	0.00
C24	2023-07-03	0.00	0.00	0.12	0.00	0.00	0.47	3.41	0.00	0.00	1.06	0.00
C24	2023-07-04	0.00	0.00	0.00	0.00	0.00	0.70	2.11	0.00	0.12	0.59	0.00
C24	2023-07-05	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00
C24	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.12	1.98	0.00	0.00	0.58	0.00
C24	2023-07-07	0.00	0.00	0.00	0.00	0.00	0.35	0.58	0.00	0.00	0.47	0.00
C24	2023-07-08	0.00	0.00	0.00	0.00	0.00	0.70	1.40	0.00	0.00	0.70	0.00
C24	2023-07-09	0.00	0.00	0.12	0.00	0.46	0.00	0.23	0.00	0.00	0.00	0.00
C24	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C24	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C24	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C24	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C36	2023-05-25	0.00	0.00	0.45	0.00	0.22	0.11	5.05	0.00	0.22	0.45	0.00
C36	2023-05-26	0.34	0.00	0.34	0.00	0.34	0.23	1.01	0.00	0.11	0.56	0.00
C36	2023-05-27	0.00	0.00	0.23	0.00	0.00	0.45	2.82	0.00	0.11	0.34	0.00
C36	2023-05-28	0.11	0.00	0.57	0.00	0.00	0.45	2.50	0.00	0.11	0.11	0.00
C36	2023-05-29	0.11	0.00	0.68	0.00	0.46	0.57	4.11	0.00	0.00	0.68	0.00
C36	2023-05-30	0.00	0.00	0.23	0.00	0.11	0.57	1.95	0.00	0.00	0.00	0.00
C36	2023-05-31	0.00	0.00	0.46	0.00	0.11	0.69	2.18	0.00	0.00	0.34	0.00
C36	2023-06-01	0.23	0.00	0.00	0.12	0.00	0.46	5.87	0.00	0.46	1.27	0.00
C36	2023-06-02	0.35	0.00	0.00	0.12	0.00	0.58	10.98	0.00	0.12	1.04	0.00
C36	2023-06-03	0.00	0.00	0.00	0.00	0.00	0.81	4.53	0.00	0.00	0.23	0.00
C36	2023-06-04	0.23	0.00	0.12	0.12	0.00	0.58	5.58	0.00	0.00	0.35	0.00
C36	2023-06-05	0.23	0.00	0.35	0.00	0.00	0.93	9.34	0.00	0.12	0.35	0.00
C36	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.47	1.41	0.00	0.00	0.12	0.00
C36	2023-06-07	0.12	0.00	0.70	0.00	0.23	0.35	1.29	0.00	0.00	0.35	0.00
C36	2023-06-08	0.00	0.00	0.00	0.00	0.12	0.71	0.59	0.00	0.00	0.00	0.00
C36	2023-06-09	0.00	0.00	0.12	0.00	0.00	0.83	0.12	0.00	0.00	0.24	0.00
C36	2023-06-10	0.00	0.00	0.00	0.00	0.12	0.00	0.59	0.00	0.00	0.00	0.00
C36	2023-06-11	0.12	0.00	0.12	0.12	0.12	0.36	1.18	0.00	0.00	0.00	0.00
C36	2023-06-12	0.00	0.00	0.12	0.12	0.00	0.59	0.95	0.00	0.00	0.00	0.00
C36	2023-06-13	0.00	0.00	0.12	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
C36	2023-06-14	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C36	2023-06-15	0.24	0.00	0.48	2.02	0.12	0.24	2.26	0.00	0.00	0.36	0.00
C36	2023-06-16	0.00	0.00	0.12	0.12	0.00	0.48	1.91	0.00	0.00	0.24	0.00
C36	2023-06-17	0.00	0.00	0.60	0.00	0.12	0.72	2.74	0.00	0.00	0.24	0.00
C36	2023-06-18	0.36	0.00	0.60	0.24	0.24	2.03	3.35	0.00	0.12	0.60	0.00
C36	2023-06-19	0.36	0.00	0.48	0.48	0.00	0.60	5.98	0.00	0.00	1.31	0.00
C36	2023-06-20	0.00	0.00	0.12	0.00	0.12	1.31	1.55	0.00	0.00	0.12	0.00
C36	2023-06-21	0.36	0.00	0.00	0.12	0.24	1.20	2.63	0.00	0.00	0.36	0.00
C36	2023-06-22	0.24	0.00	0.36	0.36	0.24	0.24	1.91	0.00	0.00	0.00	0.00
C36	2023-06-23	0.12	0.00	0.00	0.00	0.12	0.60	2.51	0.00	0.24	0.36	0.00
C36	2023-06-24	0.24	0.00	0.12	0.36	0.00	0.84	2.63	0.00	0.00	0.60	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C36	2023-06-25	0.12	0.00	0.24	0.00	0.36	0.60	1.55	0.00	0.24	0.12	0.00
C36	2023-06-26	0.24	0.00	0.00	0.24	0.24	1.07	3.46	0.00	0.00	0.83	0.00
C36	2023-06-27	0.00	0.00	0.12	0.00	0.12	0.71	15.24	0.00	0.36	0.36	0.00
C36	2023-06-28	0.12	0.00	0.24	0.00	0.24	1.90	2.98	0.00	0.24	0.36	0.00
C36	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.47	6.17	0.00	0.00	0.47	0.00
C36	2023-06-30	0.00	0.00	0.36	0.00	0.47	0.71	3.31	0.00	0.00	0.36	0.00
C36	2023-07-01	0.12	0.00	0.36	0.00	0.12	0.71	4.85	0.00	0.00	0.47	0.00
C36	2023-07-02	0.12	0.00	0.12	0.00	0.47	2.36	17.01	0.00	1.18	2.36	0.00
C36	2023-07-03	0.24	0.00	0.24	0.00	0.00	0.47	3.88	0.00	0.12	0.24	0.00
C36	2023-07-04	0.00	0.00	0.23	0.00	0.23	0.70	2.00	0.00	0.23	0.23	0.00
C36	2023-07-05	0.00	0.00	0.35	0.00	0.12	0.47	4.80	0.00	0.00	0.00	0.00
C36	2023-07-06	0.12	0.00	0.12	0.12	0.12	0.93	6.89	0.00	0.47	0.82	0.00
C36	2023-07-07	0.00	0.00	0.35	0.00	0.00	0.23	2.45	0.00	0.00	0.58	0.00
C36	2023-07-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00
C36	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C36	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C36	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C36	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C36	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C37	2023-05-25	2.02	0.00	3.14	0.00	0.45	1.23	90.05	0.00	8.07	19.18	0.00
C37	2023-05-26	3.49	0.00	5.40	0.00	4.16	0.34	173.69	0.00	18.91	17.90	0.00
C37	2023-05-27	0.68	0.00	2.03	0.00	0.45	1.58	11.75	0.00	0.34	1.81	0.00
C37	2023-05-28	1.36	0.00	1.02	0.00	0.45	1.13	15.54	0.00	1.25	3.63	0.00
C37	2023-05-29	1.71	0.00	0.80	0.00	0.00	2.40	16.20	0.00	0.23	5.59	0.00
C37	2023-05-30	1.49	0.00	0.80	0.00	0.46	1.72	63.66	0.00	0.80	3.66	0.00
C37	2023-05-31	1.15	0.00	1.26	0.00	0.69	1.84	1.72	0.00	0.00	2.99	0.00
C37	2023-06-01	0.46	0.00	0.12	0.00	0.00	0.46	10.25	0.00	0.12	1.04	0.00
C37	2023-06-02	0.58	0.00	1.04	0.00	0.35	0.81	10.40	0.00	0.35	0.46	0.00
C37	2023-06-03	0.46	0.00	0.35	0.00	0.35	0.58	9.52	0.00	0.00	0.46	0.00
C37	2023-06-04	0.12	0.00	0.00	0.00	0.23	1.05	8.60	0.00	0.23	1.51	0.00
C37	2023-06-05	0.12	0.00	0.00	0.00	0.35	1.05	10.62	0.00	0.12	2.33	0.00
C37	2023-06-06	0.00	0.00	0.59	0.00	0.23	0.23	5.62	0.00	0.23	0.82	0.00
C37	2023-06-07	0.59	0.00	0.59	0.12	0.23	1.17	8.10	0.00	0.23	0.70	0.00
C37	2023-06-08	0.12	0.00	0.47	0.00	0.35	0.94	9.65	0.00	0.12	2.82	0.00
C37	2023-06-09	0.00	0.00	0.12	0.00	0.00	0.71	1.30	0.00	0.00	0.24	0.00
C37	2023-06-10	0.35	0.00	0.35	0.00	0.00	0.47	5.31	0.00	0.00	0.83	0.00
C37	2023-06-11	0.47	0.00	0.36	0.00	0.00	2.25	7.81	0.00	0.00	3.20	0.00
C37	2023-06-12	0.00	0.00	0.48	0.00	0.12	2.85	9.03	0.00	0.00	7.01	0.00
C37	2023-06-13	0.00	0.00	0.00	0.00	0.00	0.59	0.36	0.00	0.00	2.02	0.00
C37	2023-06-14	0.00	0.00	1.31	0.00	0.48	0.00	2.02	0.00	0.00	0.12	0.00
C37	2023-06-15	0.12	0.00	0.36	0.12	0.24	1.55	6.19	0.00	0.00	1.79	0.00
C37	2023-06-16	0.24	0.00	0.72	0.24	0.60	5.01	6.56	0.00	0.00	7.51	0.00
C37	2023-06-17	0.12	0.00	0.72	0.00	0.12	2.74	4.77	0.00	0.00	2.62	0.00
C37	2023-06-18	0.24	0.00	0.36	0.00	0.12	1.55	3.11	0.00	0.00	0.36	0.00
C37	2023-06-19	0.00	0.00	0.00	0.00	0.12	7.53	6.57	0.00	0.12	9.56	0.00
C37	2023-06-20	0.00	0.00	0.36	0.00	0.12	4.42	2.27	0.00	0.00	8.84	0.00
C37	2023-06-21	0.00	0.00	0.24	0.00	0.24	7.53	2.51	0.00	0.00	12.91	0.00
C37	2023-06-22	0.24	0.00	0.72	0.00	0.12	2.39	6.10	0.00	0.36	2.75	0.00
C37	2023-06-23	0.00	0.00	0.12	0.00	0.12	1.55	5.74	0.00	0.00	2.15	0.00
C37	2023-06-24	0.00	0.00	0.36	0.00	0.36	1.43	8.01	0.00	0.12	2.63	0.00
C37	2023-06-25	0.00	0.00	0.24	0.00	0.12	1.43	5.49	0.00	0.12	1.91	0.00
C37	2023-06-26	0.24	0.00	0.48	0.00	0.00	1.91	5.49	0.00	0.12	0.95	0.00
C37	2023-06-27	0.00	0.00	0.12	0.00	0.12	2.38	7.02	0.00	0.24	0.71	0.00
C37	2023-06-28	0.12	0.00	0.00	0.00	0.12	3.57	7.02	0.00	0.00	1.31	0.00
C37	2023-06-29	0.00	0.00	0.12	0.00	0.00	0.24	0.71	0.00	0.00	0.12	0.00
C37	2023-06-30	0.24	0.00	0.47	0.00	0.24	0.36	6.39	0.00	0.24	0.71	0.00
C37	2023-07-01	0.00	0.00	0.36	0.00	0.24	3.43	12.90	0.00	0.00	2.13	0.00
C37	2023-07-02	0.00	0.00	0.00	0.00	0.12	3.07	9.21	0.00	0.00	3.54	0.00
C37	2023-07-03	0.12	0.00	0.12	0.00	0.12	1.65	2.82	0.00	0.12	0.47	0.00
C37	2023-07-04	0.12	0.00	0.00	0.00	0.12	0.94	2.70	0.00	0.00	0.35	0.00
C37	2023-07-05	0.23	0.00	0.70	0.00	0.35	0.58	12.63	0.00	0.58	2.22	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
C37	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.47	10.86	0.00	0.23	1.40	0.00
C37	2023-07-07	0.35	0.00	0.00	0.00	0.12	0.00	5.01	0.00	0.00	0.47	0.00
D1	2023-05-29	0.00	0.00	2.17	0.00	0.23	0.00	1.03	0.00	0.00	0.34	0.00
D1	2023-05-30	0.00	0.00	1.95	0.00	0.23	0.00	0.23	0.00	0.00	0.11	0.00
D1	2023-05-31	0.00	0.00	4.02	0.00	0.11	0.11	2.30	0.00	0.00	0.23	0.00
D1	2023-06-01	0.00	0.00	4.15	0.00	0.81	0.12	1.73	0.00	0.00	0.58	0.00
D1	2023-06-02	0.00	0.00	3.93	0.00	0.69	0.00	1.27	0.00	0.12	0.23	0.00
D1	2023-06-03	0.00	0.00	2.20	0.00	1.04	0.12	0.58	0.00	0.00	0.23	0.00
D1	2023-06-04	0.00	0.00	1.98	0.00	0.12	0.00	1.28	0.00	0.00	0.23	0.00
D1	2023-06-05	0.00	0.00	1.52	0.00	0.23	0.23	1.87	0.00	0.00	0.70	0.00
D1	2023-06-06	0.00	0.00	0.59	0.00	0.00	0.00	0.82	0.00	0.00	0.35	0.00
D1	2023-06-07	0.00	0.00	1.53	0.00	0.00	0.12	1.64	0.00	0.00	0.35	0.00
D1	2023-06-08	0.00	0.00	1.41	0.00	0.12	0.00	0.94	0.00	0.12	0.24	0.00
D1	2023-06-09	0.00	0.00	0.71	0.00	0.24	0.12	1.30	0.00	0.00	0.83	0.00
D1	2023-06-10	0.00	0.00	2.13	0.00	0.12	0.12	1.06	0.00	0.00	1.54	0.00
D1	2023-06-11	0.00	0.00	0.71	0.00	0.59	0.12	0.95	0.00	0.00	0.12	0.00
D1	2023-06-12	0.00	0.00	0.95	0.00	0.12	0.24	2.61	0.00	0.00	0.24	0.00
D1	2023-06-13	0.00	0.00	0.71	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00
D1	2023-06-14	0.00	0.00	1.07	0.00	0.24	0.00	0.95	0.00	0.00	0.36	0.00
D1	2023-06-15	0.00	0.00	2.38	0.00	0.83	0.12	0.95	0.00	0.00	0.12	0.00
D1	2023-06-16	0.00	0.00	0.83	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
D1	2023-06-17	0.00	0.00	0.36	0.00	0.00	0.00	2.15	0.00	0.00	0.24	0.00
D1	2023-06-18	0.00	0.00	0.72	0.00	0.24	0.24	1.20	0.00	0.00	0.24	0.00
D1	2023-06-19	0.00	0.00	0.60	0.00	0.36	0.12	2.03	0.00	0.00	0.00	0.00
D1	2023-06-20	0.00	0.00	0.48	0.00	0.24	0.24	2.15	0.00	0.00	0.84	0.00
D1	2023-06-21	0.00	0.00	0.84	0.00	0.36	0.12	0.72	0.00	0.00	0.24	0.00
D1	2023-06-22	0.00	0.00	0.72	0.00	0.12	0.24	0.96	0.00	0.00	0.12	0.00
D1	2023-06-23	0.00	0.00	1.08	0.00	0.48	0.00	1.43	0.00	0.00	0.36	0.00
D1	2023-06-24	0.00	0.00	1.43	0.00	0.12	0.00	2.15	0.00	0.00	0.36	0.00
D1	2023-06-25	0.00	0.00	0.36	0.00	0.12	0.48	1.91	0.00	0.12	0.60	0.00
D1	2023-06-26	0.00	0.00	0.72	0.00	0.24	0.60	2.03	0.00	0.00	0.24	0.00
D1	2023-06-27	0.00	0.00	0.24	0.00	0.24	0.24	1.79	0.00	0.00	0.71	0.00
D1	2023-06-28	0.00	0.00	0.48	0.00	0.00	0.36	1.55	0.00	0.12	0.71	0.00
D1	2023-06-29	0.00	0.00	0.59	0.00	0.00	0.47	2.02	0.00	0.00	1.07	0.00
D1	2023-06-30	0.00	0.00	0.24	0.00	0.12	0.47	1.07	0.00	0.00	0.71	0.00
D1	2023-07-01	0.00	0.00	0.24	0.00	0.12	0.36	1.42	0.00	0.00	0.36	0.00
D1	2023-07-02	0.00	0.00	0.24	0.00	0.00	0.24	2.36	0.00	0.00	0.47	0.00
D1	2023-07-03	0.00	0.00	1.18	0.00	0.12	0.35	2.24	0.00	0.00	0.35	0.00
D1	2023-07-04	0.00	0.00	0.47	0.00	0.35	0.35	2.47	0.00	0.00	0.23	0.00
D1	2023-07-05	0.00	0.00	0.35	0.00	0.00	0.12	1.17	0.00	0.00	0.23	0.00
D1	2023-07-06	0.00	0.00	0.35	0.00	0.58	0.12	2.45	0.00	0.12	0.82	0.00
D1	2023-07-07	0.00	0.00	0.23	0.00	0.23	0.00	0.70	0.00	0.00	0.23	0.00
D1	2023-07-08	0.00	0.00	1.05	0.00	0.70	0.47	2.21	0.00	0.12	0.58	0.00
D1	2023-07-09	0.00	0.00	0.69	0.00	0.23	0.12	0.12	0.00	0.00	0.00	0.00
D1	2023-07-10	0.00	0.00	1.96	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
D1	2023-07-11	0.00	0.00	0.34	0.00	0.34	0.23	1.95	0.00	0.11	0.23	0.00
D1	2023-07-12	0.00	0.00	0.57	0.00	0.11	0.34	2.52	0.00	0.11	0.80	0.00
D1	2023-07-13	0.00	0.00	1.94	0.00	1.25	0.00	0.11	0.00	0.00	0.11	0.00
D2	2023-05-28	0.00	0.00	0.23	0.00	0.00	0.11	0.45	0.00	0.00	0.45	0.00
D2	2023-05-29	0.00	0.00	0.00	0.00	0.00	0.23	1.60	0.00	0.00	0.23	0.00
D2	2023-05-30	0.00	0.00	0.00	0.00	0.11	0.23	1.72	0.00	0.00	0.57	0.00
D2	2023-05-31	0.00	0.00	0.11	0.00	0.00	0.23	3.56	0.00	0.00	1.61	0.00
D2	2023-06-01	0.00	0.00	0.00	0.00	0.00	0.23	3.92	0.00	0.00	1.50	0.00
D2	2023-06-02	0.00	0.00	0.35	0.00	0.69	0.23	2.43	0.00	0.00	0.46	0.00
D2	2023-06-03	0.00	0.00	0.00	0.00	0.23	0.46	1.39	0.00	0.00	0.23	0.00
D2	2023-06-04	0.00	0.00	0.00	0.00	0.12	0.47	2.33	0.00	0.00	0.23	0.00
D2	2023-06-05	0.00	0.00	0.23	0.00	0.35	0.23	1.63	0.00	0.00	0.70	0.00
D2	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.59	1.99	0.00	0.00	0.35	0.00
D2	2023-06-07	0.00	0.00	0.12	0.00	0.35	0.00	0.47	0.00	0.00	0.12	0.00
D2	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.35	0.82	0.00	0.00	0.47	0.00
D2	2023-06-09	0.00	0.00	0.71	0.00	0.35	0.00	0.35	0.00	0.00	0.24	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
D2	2023-06-10	0.00	0.00	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.24	0.00
D2	2023-06-11	0.00	0.00	0.24	0.00	0.00	0.12	1.07	0.00	0.00	0.47	0.00
D2	2023-06-12	0.00	0.00	0.12	0.00	0.12	0.00	0.59	0.00	0.00	0.00	0.00
D2	2023-06-13	0.00	0.00	0.24	0.00	0.59	0.00	0.24	0.00	0.00	0.00	0.00
D2	2023-06-14	0.00	0.00	0.12	0.00	0.24	0.00	0.12	0.00	0.00	0.12	0.00
D2	2023-06-15	0.00	0.00	0.36	0.00	0.60	0.24	0.12	0.00	0.00	0.12	0.00
D2	2023-06-16	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.12	0.00
D2	2023-06-17	0.00	0.00	0.00	0.00	0.24	0.00	0.72	0.00	0.00	0.00	0.00
D2	2023-06-18	0.00	0.00	0.00	0.00	0.24	0.24	0.72	0.00	0.00	0.24	0.00
D2	2023-06-19	0.00	0.00	0.00	0.00	0.12	0.24	0.96	0.00	0.00	0.72	0.00
D2	2023-06-20	0.00	0.00	0.12	0.00	0.12	0.24	0.24	0.00	0.00	0.12	0.00
D2	2023-06-21	0.00	0.00	0.00	0.00	0.12	0.00	0.84	0.00	0.00	0.00	0.00
D2	2023-06-22	0.00	0.00	0.00	0.00	0.12	0.12	0.48	0.00	0.00	0.12	0.00
D2	2023-06-23	0.00	0.00	0.36	0.00	0.12	0.24	0.00	0.00	0.00	0.00	0.00
D2	2023-06-24	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.12	0.00
D2	2023-06-25	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D2	2023-06-26	0.00	0.00	0.36	0.00	0.12	0.12	0.95	0.00	0.00	0.24	0.00
D2	2023-06-27	0.00	0.00	0.24	0.00	0.12	0.00	0.48	0.00	0.00	0.12	0.00
D2	2023-06-28	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
D2	2023-06-29	0.00	0.00	0.24	0.00	0.83	0.00	0.36	0.00	0.00	0.12	0.00
D2	2023-06-30	0.00	0.00	0.24	0.00	0.24	0.47	0.36	0.00	0.00	0.00	0.00
D2	2023-07-01	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.24	0.00
D2	2023-07-02	0.00	0.00	0.00	0.00	0.00	0.47	0.59	0.00	0.12	0.47	0.00
D2	2023-07-03	0.00	0.00	0.12	0.00	0.00	0.59	1.88	0.00	0.00	0.47	0.00
D2	2023-07-04	0.00	0.00	0.12	0.00	0.12	0.35	1.53	0.00	0.00	0.23	0.00
D2	2023-07-05	0.00	0.00	0.23	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
D2	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.12	0.00
D2	2023-07-07	0.00	0.00	0.00	0.00	0.12	0.00	0.35	0.00	0.00	0.12	0.00
D2	2023-07-08	0.00	0.00	0.00	0.00	0.12	0.00	0.70	0.00	0.23	0.23	0.00
D2	2023-07-09	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
D2	2023-07-10	0.00	0.00	0.23	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
D2	2023-07-11	0.11	0.00	0.11	0.00	0.23	0.34	0.92	0.00	0.11	0.11	0.00
D2	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D2	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D3	2023-05-28	0.23	0.00	0.23	0.00	0.00	0.11	2.50	0.00	0.00	0.45	0.00
D3	2023-05-29	0.00	0.00	0.11	0.00	0.00	0.80	1.25	0.00	0.00	0.11	0.00
D3	2023-05-30	0.00	0.00	0.11	0.00	0.00	0.11	1.49	0.00	0.00	0.00	0.00
D3	2023-05-31	0.00	0.00	0.11	0.00	0.00	0.46	1.95	0.00	0.00	0.34	0.00
D3	2023-06-01	0.00	0.00	0.35	0.00	0.00	0.46	2.42	0.00	0.00	0.69	0.00
D3	2023-06-02	0.00	0.00	0.35	0.00	0.00	0.69	1.97	0.00	0.00	0.69	0.00
D3	2023-06-03	0.00	0.00	0.23	0.00	0.00	0.58	2.67	0.00	0.00	0.81	0.00
D3	2023-06-04	0.12	0.00	0.47	0.00	0.00	0.58	3.49	0.00	0.23	1.05	0.00
D3	2023-06-05	0.00	0.00	0.35	0.00	0.00	0.35	1.75	0.00	0.00	0.23	0.00
D3	2023-06-06	0.00	0.00	0.35	0.00	0.00	0.23	0.59	0.00	0.00	0.12	0.00
D3	2023-06-07	0.00	0.00	0.23	0.00	0.12	0.23	1.41	0.00	0.00	0.00	0.00
D3	2023-06-08	0.00	0.00	0.12	0.00	0.00	0.24	0.94	0.00	0.00	0.71	0.00
D3	2023-06-09	0.00	0.00	0.47	0.00	0.12	0.00	1.30	0.00	0.00	0.24	0.00
D3	2023-06-10	0.00	0.00	0.47	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
D3	2023-06-11	0.00	0.00	0.47	0.00	0.12	0.24	1.54	0.00	0.00	0.24	0.00
D3	2023-06-12	0.00	0.00	0.24	0.00	0.12	0.12	1.19	0.00	0.00	0.12	0.00
D3	2023-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
D3	2023-06-14	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D3	2023-06-15	0.00	0.00	0.36	0.00	0.12	0.00	0.36	0.00	0.00	0.00	0.00
D3	2023-06-16	0.00	0.00	0.12	0.00	0.12	0.36	1.43	0.00	0.00	0.48	0.00
D3	2023-06-17	0.00	0.00	0.12	0.00	0.00	0.48	2.86	0.00	0.00	0.36	0.00
D3	2023-06-18	0.00	0.00	0.12	0.00	0.12	0.84	3.11	0.00	0.00	0.96	0.00
D3	2023-06-19	0.00	0.00	0.60	0.00	0.00	0.36	0.84	0.00	0.00	0.36	0.00
D3	2023-06-20	0.00	0.00	0.24	0.00	0.00	0.72	1.20	0.00	0.00	0.24	0.00
D3	2023-06-21	0.00	0.00	0.72	0.00	0.00	0.96	0.72	0.00	0.00	0.60	0.00
D3	2023-06-22	0.00	0.00	0.36	0.00	0.00	0.24	0.48	0.00	0.00	0.48	0.00
D3	2023-06-23	0.00	0.00	0.48	0.00	0.00	0.24	0.12	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
D3	2023-06-24	0.00	0.00	0.12	0.00	0.00	0.12	0.60	0.00	0.00	0.24	0.00
D3	2023-06-25	0.00	0.00	0.24	0.00	0.00	0.36	1.19	0.00	0.00	0.36	0.00
D3	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.48	0.60	0.00	0.00	0.24	0.00
D3	2023-06-27	0.00	0.00	0.00	0.00	0.00	0.48	1.31	0.00	0.00	0.48	0.00
D3	2023-06-28	0.00	0.00	0.24	0.00	0.00	0.12	1.90	0.00	0.00	0.60	0.00
D3	2023-06-29	0.00	0.00	0.36	0.00	0.00	0.95	0.95	0.00	0.00	0.47	0.00
D3	2023-06-30	0.00	0.00	0.95	0.00	0.12	0.24	0.83	0.00	0.00	0.12	0.00
D3	2023-07-01	0.00	0.00	0.95	0.00	0.00	0.12	1.42	0.00	0.00	0.36	0.00
D3	2023-07-02	0.00	0.00	0.83	0.00	0.00	0.94	3.78	0.00	0.00	0.94	0.00
D3	2023-07-03	0.00	0.00	0.71	0.00	0.00	0.35	1.41	0.00	0.00	0.35	0.00
D3	2023-07-04	0.12	0.00	1.06	0.00	0.00	0.23	0.00	0.00	0.00	0.23	0.00
D3	2023-07-05	0.00	0.00	0.12	0.00	0.23	0.12	0.00	0.00	0.00	0.12	0.00
D3	2023-07-06	0.00	0.00	0.47	0.00	0.00	0.23	1.17	0.00	0.00	0.12	0.00
D3	2023-07-07	0.00	0.00	0.00	0.00	0.00	0.12	0.47	0.00	0.00	0.00	0.00
D3	2023-07-08	0.00	0.00	0.12	0.00	0.00	0.12	0.70	0.00	0.00	0.23	0.00
D3	2023-07-09	0.00	0.00	0.23	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
D3	2023-07-10	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D3	2023-07-11	0.00	0.00	0.46	0.00	0.00	0.23	1.26	0.00	0.00	0.23	0.00
D3	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D3	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D4	2023-05-28	0.00	0.00	0.00	0.00	0.23	0.11	0.68	0.00	0.11	0.91	0.00
D4	2023-05-29	0.00	0.00	0.00	0.11	0.23	0.23	0.91	0.00	0.00	0.57	0.00
D4	2023-05-30	0.11	0.00	0.00	0.00	0.23	0.23	2.52	0.00	0.00	0.46	0.00
D4	2023-05-31	0.00	0.00	0.00	0.00	0.23	0.34	1.72	0.00	0.00	0.23	0.00
D4	2023-06-01	0.00	0.00	0.12	0.00	0.12	0.46	2.99	0.00	0.00	0.69	0.00
D4	2023-06-02	0.00	0.00	0.00	0.00	0.00	0.23	4.05	0.00	0.23	0.92	0.00
D4	2023-06-03	0.00	0.00	0.00	0.00	0.35	0.70	1.74	0.00	0.00	0.81	0.00
D4	2023-06-04	0.00	0.00	0.12	0.00	0.12	0.12	3.02	0.00	0.00	0.70	0.00
D4	2023-06-05	0.00	0.00	0.00	0.00	0.47	0.12	1.75	0.00	0.00	0.82	0.00
D4	2023-06-06	0.00	0.00	0.12	0.00	0.00	0.35	1.05	0.00	0.00	0.47	0.00
D4	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.23	0.59	0.00	0.23	0.35	0.00
D4	2023-06-08	0.00	0.00	0.12	0.00	0.00	0.12	2.00	0.00	0.00	0.35	0.00
D4	2023-06-09	0.00	0.00	0.00	0.00	0.12	0.47	0.00	0.00	0.00	0.12	0.00
D4	2023-06-10	0.00	0.00	0.24	0.00	0.00	0.00	0.35	0.00	0.00	0.12	0.00
D4	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.12	0.95	0.00	0.00	0.24	0.00
D4	2023-06-12	0.00	0.00	0.00	0.00	0.00	0.24	0.83	0.00	0.00	0.24	0.00
D4	2023-06-13	0.00	0.00	0.12	0.00	0.12	0.00	0.24	0.00	0.00	0.00	0.00
D4	2023-06-14	0.00	0.00	0.00	0.00	0.36	0.00	0.12	0.00	0.00	0.12	0.00
D4	2023-06-15	0.00	0.00	0.12	0.00	0.24	0.00	1.67	0.00	0.00	0.12	0.00
D4	2023-06-16	0.00	0.00	0.12	0.00	0.48	0.24	2.50	0.00	0.00	0.72	0.00
D4	2023-06-17	0.00	0.00	0.00	0.00	0.12	0.00	1.79	0.00	0.00	0.60	0.00
D4	2023-06-18	0.00	0.00	0.00	0.00	0.24	0.36	5.50	0.00	0.00	2.03	0.00
D4	2023-06-19	0.00	0.00	0.12	0.00	0.36	0.48	0.72	0.00	0.00	0.24	0.00
D4	2023-06-20	0.00	0.00	0.00	0.00	0.24	0.72	2.03	0.00	0.00	0.36	0.00
D4	2023-06-21	0.00	0.00	0.00	0.00	0.72	0.36	1.43	0.00	0.00	0.24	0.00
D4	2023-06-22	0.00	0.00	0.00	0.00	0.72	0.36	0.60	0.00	0.00	0.24	0.00
D4	2023-06-23	0.00	0.00	0.12	0.00	0.24	0.00	0.84	0.00	0.00	0.00	0.00
D4	2023-06-24	0.00	0.00	0.12	0.00	0.12	0.24	3.35	0.00	0.00	0.72	0.00
D4	2023-06-25	0.00	0.00	0.00	0.00	0.12	0.36	0.72	0.00	0.12	1.07	0.00
D4	2023-06-26	0.00	0.00	0.24	0.00	0.48	0.24	0.24	0.00	0.00	0.00	0.00
D4	2023-06-27	0.00	0.00	0.60	0.00	0.24	0.60	1.55	0.00	0.00	1.19	0.00
D4	2023-06-28	0.00	0.00	0.00	0.00	0.12	0.00	2.38	0.00	0.00	0.48	0.00
D4	2023-06-29	0.00	0.00	0.12	0.00	0.36	0.12	1.07	0.00	0.00	0.47	0.00
D4	2023-06-30	0.00	0.00	0.12	0.00	0.24	0.71	0.95	0.00	0.00	1.30	0.00
D4	2023-07-01	0.00	0.00	0.12	0.00	0.36	0.59	3.55	0.00	0.00	0.71	0.00
D4	2023-07-02	0.00	0.00	0.00	0.00	0.35	1.18	3.19	0.00	0.35	2.95	0.00
D4	2023-07-03	0.00	0.00	0.12	0.00	0.35	0.71	2.71	0.00	0.24	2.00	0.00
D4	2023-07-04	0.00	0.00	0.00	0.00	0.00	0.35	1.06	0.00	0.00	0.47	0.00
D4	2023-07-05	0.00	0.00	0.12	0.00	0.12	0.12	0.58	0.00	0.00	0.00	0.00
D4	2023-07-06	0.00	0.00	0.00	0.00	0.23	0.23	2.92	0.00	0.12	1.40	0.00
D4	2023-07-07	0.00	0.00	0.00	0.00	0.00	0.93	1.17	0.00	0.47	1.40	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
D4	2023-07-08	0.00	0.00	0.00	0.00	0.12	0.58	5.23	0.00	1.28	3.26	0.00
D4	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00
D4	2023-07-10	0.00	0.00	0.12	0.00	0.12	0.00	0.12	0.00	0.12	0.00	0.00
D4	2023-07-11	0.00	0.00	0.00	0.00	0.23	0.46	0.92	0.00	0.00	1.72	0.00
D4	2023-07-12	0.00	0.00	0.00	0.00	0.11	0.80	2.75	0.00	0.00	1.15	0.00
D4	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D5	2023-05-26	0.00	0.00	0.11	0.00	0.23	0.11	1.91	0.00	0.11	0.56	0.00
D5	2023-05-27	0.00	0.00	0.11	0.00	1.36	0.00	3.05	0.00	0.00	1.13	0.00
D5	2023-05-28	0.00	0.00	1.36	0.00	2.61	0.57	3.18	0.00	0.11	1.70	0.00
D5	2023-05-29	0.00	0.00	2.85	0.00	2.85	0.11	2.74	0.00	0.00	0.91	0.00
D5	2023-05-30	0.00	0.00	0.11	0.00	1.26	0.11	2.18	0.00	0.11	0.80	0.00
D5	2023-05-31	0.11	0.00	2.18	0.00	2.53	0.92	1.95	0.00	0.00	0.92	0.00
D5	2023-06-01	0.00	0.00	0.69	0.00	1.96	0.69	8.87	0.00	0.35	2.88	0.00
D5	2023-06-02	0.00	0.00	1.39	0.00	5.66	0.92	3.93	0.00	0.00	1.85	0.00
D5	2023-06-03	0.00	0.00	3.13	0.00	11.61	1.62	11.61	0.00	0.12	3.25	0.00
D5	2023-06-04	0.00	0.00	3.37	0.00	9.30	1.63	7.67	0.00	0.47	2.44	0.00
D5	2023-06-05	0.00	0.00	6.07	0.00	6.19	2.57	11.32	0.00	0.82	4.90	0.00
D5	2023-06-06	0.00	0.00	2.93	0.00	4.10	0.23	1.41	0.00	0.00	0.23	0.00
D5	2023-06-07	0.00	0.00	2.23	0.00	3.64	2.35	1.41	0.00	0.12	1.76	0.00
D5	2023-06-08	0.00	0.00	3.76	0.00	3.76	0.12	0.47	0.00	0.00	0.82	0.00
D5	2023-06-09	0.00	0.00	1.18	0.00	1.77	0.35	0.24	0.00	0.12	0.24	0.00
D5	2023-06-10	0.00	0.00	0.83	0.00	3.19	0.00	0.12	0.00	0.00	0.00	0.00
D5	2023-06-11	0.00	0.00	0.83	0.00	0.83	0.12	0.47	0.00	0.00	0.12	0.00
D5	2023-06-12	0.00	0.00	1.31	0.00	1.90	0.00	0.12	0.00	0.00	0.24	0.00
D5	2023-06-13	0.00	0.00	1.78	0.00	2.26	0.00	0.24	0.00	0.00	0.00	0.00
D5	2023-06-14	0.00	0.00	0.95	0.00	3.45	0.00	0.00	0.00	0.00	0.00	0.00
D5	2023-06-15	0.00	0.00	2.62	0.00	3.69	0.12	0.24	0.00	0.00	0.12	0.00
D5	2023-06-16	0.00	0.00	2.03	0.00	2.39	0.24	0.83	0.00	0.00	0.36	0.00
D5	2023-06-17	0.00	0.00	0.36	0.00	1.67	0.36	1.31	0.00	0.00	0.12	0.00
D5	2023-06-18	0.00	0.00	0.84	0.00	1.91	0.24	1.43	0.00	0.00	0.48	0.00
D5	2023-06-19	0.00	0.00	0.24	0.00	1.43	0.36	1.43	0.00	0.00	0.72	0.00
D5	2023-06-20	0.00	0.00	0.60	0.00	0.48	0.24	2.63	0.00	0.00	0.60	0.00
D5	2023-06-21	0.00	0.00	0.12	0.00	0.48	0.84	0.96	0.00	0.12	0.48	0.00
D5	2023-06-22	0.00	0.00	0.60	0.00	1.43	0.00	0.84	0.00	0.00	0.72	0.00
D5	2023-06-23	0.00	0.00	0.72	0.00	0.60	0.24	1.08	0.00	0.12	0.60	0.00
D5	2023-06-24	0.00	0.00	0.00	0.00	0.36	0.24	0.72	0.00	0.00	0.24	0.00
D5	2023-06-25	0.00	0.00	0.12	0.00	0.72	0.24	1.19	0.00	0.12	0.60	0.00
D5	2023-06-26	0.00	0.00	0.36	0.00	0.36	0.00	0.36	0.00	0.00	0.12	0.00
D5	2023-06-27	0.00	0.00	0.60	0.00	1.07	0.12	3.45	0.00	0.00	1.31	0.00
D5	2023-06-28	0.00	0.00	0.95	0.00	4.17	0.24	1.19	0.00	0.00	0.83	0.00
D5	2023-06-29	0.00	0.00	1.78	0.00	2.61	0.47	2.25	0.00	0.00	1.66	0.00
D5	2023-06-30	0.00	0.00	0.71	0.00	0.59	0.24	1.07	0.00	0.00	1.30	0.00
D5	2023-07-01	0.00	0.00	2.37	0.00	3.43	0.83	3.20	0.00	0.00	2.25	0.00
D5	2023-07-02	0.00	0.00	0.12	0.00	0.71	0.35	1.77	0.00	0.24	1.18	0.00
D5	2023-07-03	0.00	0.00	1.76	0.00	1.53	0.35	1.18	0.00	0.00	1.29	0.00
D5	2023-07-04	0.00	0.00	0.00	0.00	1.06	0.12	1.41	0.00	0.00	0.70	0.00
D5	2023-07-05	0.00	0.00	0.35	0.00	0.35	0.00	1.75	0.00	0.00	0.35	0.00
D5	2023-07-06	0.00	0.00	0.47	0.00	1.05	1.52	3.39	0.00	0.00	0.70	0.00
D5	2023-07-07	0.00	0.00	0.93	0.00	0.82	0.12	0.47	0.00	0.00	0.35	0.00
D5	2023-07-08	0.00	0.00	1.05	0.00	1.28	0.12	1.63	0.00	0.00	0.47	0.00
D5	2023-07-09	0.00	0.00	0.81	0.00	2.20	0.12	0.46	0.00	0.00	0.46	0.00
D5	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D5	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D5	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D5	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D6	2023-05-27	0.00	0.00	0.11	0.00	0.11	0.00	1.47	0.00	0.00	0.23	0.00
D6	2023-05-28	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.00	0.00	0.11	0.00
D6	2023-05-29	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.34	0.00
D6	2023-05-30	0.00	0.00	0.00	0.00	0.00	0.34	1.37	0.00	0.00	0.00	0.00
D6	2023-05-31	0.00	0.00	0.00	0.00	0.00	0.34	3.68	0.00	0.00	0.23	0.00
D6	2023-06-01	0.00	0.00	0.00	0.00	0.12	0.35	2.30	0.00	0.00	1.04	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
D6	2023-06-02	0.00	0.00	0.00	0.00	0.12	0.12	4.28	0.00	0.00	0.12	0.00
D6	2023-06-03	0.00	0.00	0.00	0.00	0.00	0.12	0.93	0.00	0.00	0.12	0.00
D6	2023-06-04	0.12	0.00	0.00	0.00	0.00	0.81	3.72	0.00	0.12	0.81	0.00
D6	2023-06-05	0.00	0.00	0.00	0.00	0.12	0.12	4.67	0.00	0.00	0.23	0.00
D6	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
D6	2023-06-07	0.00	0.00	0.12	0.00	0.12	0.00	1.76	0.00	0.00	0.23	0.00
D6	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.24	2.82	0.00	0.00	0.35	0.00
D6	2023-06-09	0.00	0.00	0.00	0.00	0.00	0.47	0.94	0.00	0.00	0.12	0.00
D6	2023-06-10	0.00	0.00	0.24	0.00	0.00	0.00	0.83	0.00	0.00	0.24	0.00
D6	2023-06-11	0.00	0.00	0.24	0.00	0.00	0.00	1.78	0.00	0.00	0.24	0.00
D6	2023-06-12	0.00	0.00	0.12	0.00	0.12	0.00	1.07	0.00	0.00	0.24	0.00
D6	2023-06-13	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
D6	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D6	2023-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.12	0.00
D6	2023-06-16	0.12	0.00	0.00	0.00	0.00	0.24	0.83	0.00	0.00	0.12	0.00
D6	2023-06-17	0.00	0.00	0.12	0.00	0.00	0.36	2.27	0.00	0.00	0.60	0.00
D6	2023-06-18	0.00	0.00	0.00	0.00	0.00	0.60	2.63	0.00	0.00	0.24	0.00
D6	2023-06-19	0.00	0.00	0.00	0.00	0.00	0.60	9.08	0.00	0.00	1.55	0.00
D6	2023-06-20	0.00	0.00	0.00	0.00	0.00	1.20	19.96	0.00	0.12	2.27	0.00
D6	2023-06-21	0.00	0.00	0.00	0.00	0.00	0.24	0.72	0.00	0.00	0.12	0.00
D6	2023-06-22	0.00	0.00	0.00	0.00	0.00	0.36	0.60	0.00	0.00	0.24	0.00
D6	2023-06-23	0.00	0.00	0.12	0.00	0.12	0.24	1.55	0.00	0.00	0.36	0.00
D6	2023-06-24	0.00	0.00	0.12	0.00	0.12	0.24	2.03	0.00	0.00	0.00	0.00
D6	2023-06-25	0.00	0.00	0.12	0.00	0.00	0.12	1.07	0.00	0.00	0.24	0.00
D6	2023-06-26	0.00	0.00	0.24	0.00	0.00	0.72	2.03	0.00	0.00	0.12	0.00
D6	2023-06-27	0.00	0.00	0.12	0.00	0.00	0.60	2.86	0.00	0.00	0.36	0.00
D6	2023-06-28	0.00	0.00	0.12	0.00	0.00	0.71	2.26	0.00	0.00	0.48	0.00
D6	2023-06-29	0.00	0.00	0.00	0.00	0.24	0.24	2.25	0.00	0.00	0.36	0.00
D6	2023-06-30	0.00	0.00	0.00	0.00	0.12	0.12	1.07	0.00	0.00	0.00	0.00
D6	2023-07-01	0.12	0.00	0.00	0.00	0.12	0.36	3.67	0.00	0.00	0.24	0.00
D6	2023-07-02	0.00	0.00	0.00	0.00	0.24	0.59	9.45	0.00	0.00	1.06	0.00
D6	2023-07-03	0.00	0.00	0.12	0.00	0.00	0.94	7.06	0.00	0.12	0.82	0.00
D6	2023-07-04	0.00	0.00	0.00	0.00	0.23	0.23	3.87	0.00	0.00	1.06	0.00
D6	2023-07-05	0.00	0.00	0.00	0.00	0.12	0.35	0.00	0.00	0.00	0.00	0.00
D6	2023-07-06	0.00	0.00	0.12	0.00	0.12	0.47	3.27	0.00	0.00	0.23	0.00
D6	2023-07-07	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D6	2023-07-08	0.00	0.00	0.00	0.00	0.00	0.47	3.14	0.00	0.00	0.35	0.00
D6	2023-07-09	0.00	0.00	0.12	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
D6	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D6	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D6	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D6	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D7	2023-05-28	0.00	0.00	0.11	0.00	0.00	0.11	0.79	0.00	0.00	0.00	0.00
D7	2023-05-29	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
D7	2023-05-30	0.00	0.00	0.00	0.00	0.00	0.11	1.49	0.00	0.00	0.23	0.00
D7	2023-05-31	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.00
D7	2023-06-01	0.00	0.00	0.12	0.00	0.00	0.12	0.46	0.00	0.00	0.00	0.00
D7	2023-06-02	0.00	0.00	0.00	0.00	0.00	0.12	0.81	0.00	0.00	0.00	0.00
D7	2023-06-03	0.00	0.00	0.00	0.00	0.00	0.12	1.04	0.00	0.00	0.00	0.00
D7	2023-06-04	0.00	0.00	0.00	0.00	0.00	0.23	1.28	0.00	0.12	0.00	0.00
D7	2023-06-05	0.00	0.00	0.12	0.00	0.00	0.35	0.47	0.00	0.00	0.00	0.00
D7	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
D7	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.12	0.23	0.00	0.00	0.12	0.00
D7	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.12	0.00
D7	2023-06-09	0.00	0.00	0.00	0.00	0.00	0.12	0.94	0.00	0.00	0.24	0.00
D7	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
D7	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
D7	2023-06-12	0.00	0.00	0.00	0.00	0.12	0.00	0.48	0.00	0.00	0.00	0.00
D7	2023-06-13	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D7	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D7	2023-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
D7	2023-06-16	0.00	0.00	0.00	0.00	0.00	0.12	1.55	0.00	0.00	0.24	0.00
D7	2023-06-17	0.00	0.00	0.00	0.00	0.00	0.12	0.48	0.00	0.00	0.12	0.00
D7	2023-06-18	0.00	0.00	0.00	0.00	0.00	0.24	0.48	0.00	0.00	0.12	0.00
D7	2023-06-19	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.12	0.00
D7	2023-06-20	0.00	0.00	0.00	0.00	0.00	0.48	0.12	0.00	0.00	0.00	0.00
D7	2023-06-21	0.00	0.00	0.00	0.00	0.00	0.24	1.79	0.00	0.00	0.00	0.00
D7	2023-06-22	0.00	0.00	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.36	0.00
D7	2023-06-23	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
D7	2023-06-24	0.00	0.00	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.00	0.00
D7	2023-06-25	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00
D7	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00
D7	2023-06-27	0.00	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.00	0.24	0.00
D7	2023-06-28	0.00	0.00	0.00	0.00	0.00	0.12	1.31	0.00	0.00	0.12	0.00
D7	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.12	0.00
D7	2023-06-30	0.00	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.00	0.12	0.00
D7	2023-07-01	0.00	0.00	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.00	0.00
D7	2023-07-02	0.00	0.00	0.24	0.00	0.00	0.12	1.18	0.00	0.00	0.12	0.00
D7	2023-07-03	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.12	0.35	0.00
D7	2023-07-04	0.00	0.00	0.00	0.00	0.00	0.12	0.70	0.00	0.00	0.23	0.00
D7	2023-07-05	0.00	0.00	0.00	0.00	0.00	1.64	0.23	0.00	0.00	0.94	0.00
D7	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.35	0.93	0.00	0.12	0.82	0.00
D7	2023-07-07	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
D7	2023-07-08	0.00	0.00	0.00	0.00	0.00	0.00	1.86	0.00	0.00	3.02	0.00
D7	2023-07-09	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D7	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
D7	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.23	0.57	0.00	0.00	0.00	0.00
D7	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D7	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D8	2023-05-27	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
D8	2023-05-28	0.00	0.00	0.11	0.00	0.11	0.00	1.25	0.00	0.00	0.00	0.00
D8	2023-05-29	0.00	0.00	0.00	0.00	0.23	0.00	0.34	0.00	0.00	0.00	0.00
D8	2023-05-30	0.00	0.00	0.11	0.00	0.69	0.11	0.23	0.00	0.00	0.46	0.00
D8	2023-05-31	0.00	0.00	0.11	0.00	0.11	0.00	0.46	0.00	0.00	0.00	0.00
D8	2023-06-01	0.00	0.00	0.12	0.00	0.12	0.23	0.58	0.00	0.00	0.23	0.00
D8	2023-06-02	0.00	0.00	0.00	0.00	0.12	0.23	0.58	0.00	0.00	0.00	0.00
D8	2023-06-03	0.00	0.00	0.00	0.00	0.12	0.00	1.51	0.00	0.00	0.23	0.00
D8	2023-06-04	0.00	0.00	0.00	0.00	0.23	0.23	0.58	0.00	0.00	0.58	0.00
D8	2023-06-05	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
D8	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
D8	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.23	0.00
D8	2023-06-08	0.00	0.00	0.12	0.00	0.00	0.12	0.12	0.00	0.00	0.24	0.00
D8	2023-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
D8	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.24	1.54	0.00	0.12	0.47	0.00
D8	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.12	0.47	0.00	0.00	0.00	0.00
D8	2023-06-12	0.00	0.00	0.12	0.00	0.00	0.24	0.59	0.00	0.00	0.12	0.00
D8	2023-06-13	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
D8	2023-06-14	0.00	0.00	0.36	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
D8	2023-06-15	0.00	0.00	0.24	0.00	0.24	0.00	0.12	0.00	0.00	0.00	0.00
D8	2023-06-16	0.00	0.00	0.00	0.00	0.12	0.00	0.36	0.00	0.00	0.36	0.00
D8	2023-06-17	0.00	0.00	0.00	0.00	0.00	0.12	0.36	0.00	0.00	0.48	0.00
D8	2023-06-18	0.00	0.00	0.00	0.00	0.12	0.48	0.84	0.00	0.00	0.36	0.00
D8	2023-06-19	0.00	0.00	0.00	0.00	0.00	0.84	1.31	0.00	0.00	0.60	0.00
D8	2023-06-20	0.00	0.00	0.00	0.00	0.00	0.48	4.54	0.00	0.00	0.84	0.00
D8	2023-06-21	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.12	0.00
D8	2023-06-22	0.00	0.00	0.00	0.00	0.00	0.12	1.08	0.00	0.00	0.00	0.00
D8	2023-06-23	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.12	0.00
D8	2023-06-24	0.00	0.00	0.00	0.00	0.00	0.24	0.12	0.00	0.00	0.24	0.00
D8	2023-06-25	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.48	0.00
D8	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.83	0.00
D8	2023-06-27	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.00	0.00	0.00	0.00
D8	2023-06-28	0.00	0.00	0.00	0.00	0.00	0.12	0.48	0.00	0.00	0.12	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
D8	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.12	0.47	0.00	0.00	0.47	0.00
D8	2023-06-30	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00
D8	2023-07-01	0.00	0.00	0.24	0.00	0.00	0.24	0.83	0.00	0.00	0.24	0.00
D8	2023-07-02	0.00	0.00	0.00	0.00	0.00	0.59	0.94	0.00	0.00	1.42	0.00
D8	2023-07-03	0.00	0.00	0.12	0.00	0.12	0.12	0.47	0.00	0.00	0.35	0.00
D8	2023-07-04	0.00	0.00	0.00	0.00	0.00	0.47	2.70	0.00	0.00	1.06	0.00
D8	2023-07-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
D8	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.82	0.35	0.00	0.00	1.40	0.00
D8	2023-07-07	0.00	0.00	0.00	0.00	0.12	0.00	0.23	0.00	0.00	0.35	0.00
D8	2023-07-08	0.00	0.00	0.00	0.00	0.00	0.12	0.23	0.00	0.00	0.00	0.00
D8	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.35	0.00
D8	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D8	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.11	0.23	0.00	0.00	0.23	0.00
D8	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D8	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D9	2023-05-26	0.00	0.00	0.00	0.00	0.00	0.34	0.56	0.00	0.00	0.56	0.00
D9	2023-05-27	0.00	0.00	0.00	0.00	0.00	0.68	1.24	0.00	0.00	0.34	0.00
D9	2023-05-28	0.11	0.00	0.11	0.00	0.00	0.45	0.34	0.00	0.00	0.68	0.00
D9	2023-05-29	0.00	0.00	0.00	0.00	0.11	0.00	0.91	0.00	0.00	0.57	0.00
D9	2023-05-30	0.00	0.00	0.00	0.00	0.00	0.23	0.34	0.00	0.00	0.57	0.00
D9	2023-05-31	0.00	0.00	0.00	0.00	0.00	0.23	0.34	0.00	0.00	0.23	0.00
D9	2023-06-01	0.00	0.00	0.00	0.00	0.00	0.35	0.81	0.00	0.00	0.58	0.00
D9	2023-06-02	0.00	0.00	0.00	0.00	0.00	0.12	0.35	0.00	0.00	0.35	0.00
D9	2023-06-03	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.58	0.00
D9	2023-06-04	0.00	0.00	0.00	0.00	0.00	0.58	1.16	0.00	0.00	1.28	0.00
D9	2023-06-05	0.00	0.00	0.00	0.00	0.00	0.35	0.70	0.00	0.00	0.58	0.00
D9	2023-06-06	0.00	0.00	0.00	0.00	0.12	0.35	0.12	0.00	0.00	0.59	0.00
D9	2023-06-07	0.12	0.00	0.00	0.00	0.00	0.23	0.23	0.00	0.12	0.47	0.00
D9	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.59	0.00
D9	2023-06-09	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.59	0.00
D9	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.83	0.12	0.00	0.00	0.71	0.00
D9	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.00	0.00	0.59	0.00
D9	2023-06-12	0.00	0.00	0.00	0.00	0.00	0.36	0.48	0.00	0.00	0.95	0.00
D9	2023-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
D9	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.24	0.00
D9	2023-06-15	0.00	0.00	0.00	0.00	0.00	0.24	0.12	0.00	0.00	0.48	0.00
D9	2023-06-16	0.00	0.00	0.00	0.00	0.12	0.00	1.31	0.00	0.00	0.83	0.00
D9	2023-06-17	0.00	0.00	0.00	0.00	0.12	0.12	1.31	0.00	0.00	0.60	0.00
D9	2023-06-18	0.00	0.00	0.00	0.00	0.12	0.36	1.08	0.00	0.00	0.72	0.00
D9	2023-06-19	0.00	0.00	0.12	0.00	0.36	0.00	1.08	0.00	0.00	0.36	0.00
D9	2023-06-20	0.00	0.00	0.00	0.00	0.00	0.84	1.91	0.00	0.00	0.96	0.00
D9	2023-06-21	0.00	0.00	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.72	0.00
D9	2023-06-22	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.24	0.00
D9	2023-06-23	0.00	0.00	0.24	0.00	0.00	0.12	0.00	0.00	0.00	0.48	0.00
D9	2023-06-24	0.00	0.00	0.00	0.00	0.00	0.24	0.60	0.00	0.00	0.96	0.00
D9	2023-06-25	0.00	0.00	0.00	0.00	0.12	0.24	0.12	0.00	0.00	0.36	0.00
D9	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
D9	2023-06-27	0.00	0.00	0.00	0.00	0.12	0.12	1.07	0.00	0.00	0.83	0.00
D9	2023-06-28	0.00	0.00	0.00	0.00	0.00	0.48	0.12	0.00	0.00	0.12	0.00
D9	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D9	2023-06-30	0.00	0.00	0.00	0.00	0.00	0.95	0.59	0.00	0.00	1.66	0.00
D9	2023-07-01	0.00	0.00	0.00	0.00	0.00	0.95	2.96	0.00	0.00	1.54	0.00
D9	2023-07-02	0.00	0.00	0.00	0.00	0.00	1.30	2.48	0.00	0.24	0.94	0.00
D9	2023-07-03	0.00	0.00	0.00	0.00	0.00	0.12	1.53	0.00	0.00	1.29	0.00
D9	2023-07-04	0.00	0.00	0.00	0.00	0.00	0.23	1.53	0.00	0.00	1.29	0.00
D9	2023-07-05	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	1.29	0.00
D9	2023-07-06	0.00	0.00	0.00	0.00	0.00	1.63	1.75	0.00	0.00	3.85	0.00
D9	2023-07-07	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.58	0.00
D9	2023-07-08	0.00	0.00	0.00	0.00	0.00	1.74	0.81	0.00	0.00	2.79	0.00
D9	2023-07-09	0.00	0.00	0.00	0.00	0.00	1.27	0.46	0.00	0.00	1.74	0.00
D9	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
D9	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D9	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D9	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D11	2023-05-26	0.00	0.00	0.00	0.00	0.00	0.23	0.45	0.00	0.00	0.23	0.00
D11	2023-05-27	0.00	0.00	0.00	0.00	0.11	0.23	0.79	0.00	0.00	0.23	0.00
D11	2023-05-28	0.00	0.00	0.00	0.00	0.11	0.23	0.34	0.00	0.00	0.34	0.00
D11	2023-05-29	0.00	0.00	0.00	0.00	0.11	0.00	0.23	0.00	0.00	0.34	0.00
D11	2023-05-30	0.00	0.00	0.00	0.00	0.00	0.46	0.46	0.00	0.00	0.69	0.00
D11	2023-05-31	0.00	0.00	0.00	0.00	0.00	0.34	1.38	0.00	0.00	0.80	0.00
D11	2023-06-01	0.00	0.00	0.00	0.00	0.00	0.35	1.96	0.00	0.00	0.46	0.00
D11	2023-06-02	0.00	0.00	0.00	0.00	0.00	0.92	0.69	0.00	0.00	0.81	0.00
D11	2023-06-03	0.00	0.00	0.00	0.00	0.00	0.12	0.70	0.00	0.00	0.58	0.00
D11	2023-06-04	0.00	0.00	0.00	0.00	0.00	0.23	2.33	0.00	0.00	1.51	0.00
D11	2023-06-05	0.00	0.00	0.00	0.00	0.00	0.12	0.93	0.00	0.00	0.12	0.00
D11	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00
D11	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.23	0.35	0.00	0.12	0.12	0.00
D11	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.47	0.35	0.00	0.00	0.82	0.00
D11	2023-06-09	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.12	0.00
D11	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
D11	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
D11	2023-06-12	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.12	0.00
D11	2023-06-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
D11	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
D11	2023-06-15	0.00	0.00	0.00	0.00	0.12	0.00	0.60	0.00	0.00	0.24	0.00
D11	2023-06-16	0.00	0.00	0.00	0.00	0.00	0.24	1.07	0.00	0.00	0.48	0.00
D11	2023-06-17	0.00	0.00	0.00	0.00	0.00	0.36	1.19	0.00	0.00	0.36	0.00
D11	2023-06-18	0.00	0.00	0.00	0.00	0.00	0.36	0.84	0.00	0.00	0.36	0.00
D11	2023-06-19	0.00	0.00	0.00	0.00	0.00	0.24	1.20	0.00	0.00	1.31	0.00
D11	2023-06-20	0.00	0.00	0.00	0.00	0.12	0.60	0.96	0.00	0.00	1.08	0.00
D11	2023-06-21	0.00	0.00	0.00	0.00	0.12	0.00	0.72	0.00	0.00	0.00	0.00
D11	2023-06-22	0.00	0.00	0.00	0.00	0.12	0.00	0.12	0.00	0.00	0.60	0.00
D11	2023-06-23	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.24	0.00
D11	2023-06-24	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.48	0.00
D11	2023-06-25	0.00	0.00	0.12	0.00	0.12	0.12	0.72	0.00	0.00	0.48	0.00
D11	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.12	0.00
D11	2023-06-27	0.00	0.00	0.00	0.00	0.00	0.12	0.60	0.00	0.00	0.12	0.00
D11	2023-06-28	0.00	0.00	0.00	0.00	0.00	0.00	1.79	0.00	0.12	0.36	0.00
D11	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.47	1.54	0.00	0.12	1.78	0.00
D11	2023-06-30	0.00	0.00	0.00	0.00	0.00	0.12	0.47	0.00	0.00	0.12	0.00
D11	2023-07-01	0.00	0.00	0.00	0.00	0.00	0.36	1.42	0.00	0.00	0.71	0.00
D11	2023-07-02	0.00	0.00	0.00	0.00	0.00	0.71	3.19	0.00	0.00	1.65	0.00
D11	2023-07-03	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.59	0.00
D11	2023-07-04	0.00	0.00	0.00	0.00	0.00	0.00	1.53	0.00	0.00	0.82	0.00
D11	2023-07-05	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.70	0.00
D11	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D11	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D11	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D12	2023-05-29	0.00	0.00	0.00	0.00	0.00	0.34	1.60	0.00	0.00	0.11	0.00
D12	2023-05-30	0.11	0.00	0.46	0.00	0.11	0.80	1.37	0.00	0.00	0.23	0.00
D12	2023-05-31	0.34	0.00	0.00	0.00	0.57	0.69	2.18	0.00	0.00	0.34	0.00
D12	2023-06-01	0.00	0.00	0.23	0.00	0.00	1.04	9.33	0.00	0.12	1.38	0.00
D12	2023-06-02	0.23	0.00	0.58	0.00	0.12	1.04	5.09	0.00	0.00	0.81	0.00
D12	2023-06-03	0.00	0.00	0.12	0.00	0.12	0.58	1.51	0.00	0.00	0.46	0.00
D12	2023-06-04	0.23	0.00	8.26	0.00	0.93	0.81	5.12	0.00	0.12	0.70	0.00
D12	2023-06-05	0.00	0.00	0.35	0.00	0.12	0.23	3.03	0.00	0.00	0.35	0.00
D12	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.47	0.70	0.00	0.00	0.23	0.00
D12	2023-06-07	0.12	0.00	0.23	0.00	0.12	0.47	0.70	0.00	0.00	0.12	0.00
D12	2023-06-08	0.00	0.00	0.35	0.00	0.24	0.12	0.82	0.00	0.00	0.24	0.00
D12	2023-06-09	0.12	0.00	0.47	0.00	0.12	0.24	1.18	0.00	0.00	0.35	0.00
D12	2023-06-10	0.12	0.00	0.35	0.00	0.24	0.00	1.89	0.00	0.00	0.12	0.00
D12	2023-06-11	0.00	0.00	0.36	0.00	0.24	0.47	1.54	0.00	0.24	0.47	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
D12	2023-06-12	0.00	0.00	0.24	0.00	0.12	0.95	1.90	0.00	0.00	0.48	0.00
D12	2023-06-13	0.00	0.00	0.12	0.00	0.12	0.12	0.36	0.00	0.00	0.12	0.00
D12	2023-06-14	0.00	0.00	0.00	0.00	0.12	0.00	0.95	0.00	0.00	0.00	0.00
D12	2023-06-15	0.00	0.00	0.24	0.00	0.00	0.24	2.62	0.00	0.00	0.36	0.00
D12	2023-06-16	0.00	0.00	0.36	0.00	0.12	0.12	0.24	0.00	0.00	0.24	0.00
D12	2023-06-17	0.00	0.00	0.95	0.00	0.48	0.60	1.07	0.00	0.00	0.12	0.00
D12	2023-06-18	0.00	0.00	0.00	0.00	0.00	0.12	2.99	0.00	0.00	0.24	0.00
D12	2023-06-19	0.00	0.00	0.12	0.00	0.00	0.84	2.75	0.00	0.12	0.48	0.00
D12	2023-06-20	0.00	0.00	0.12	0.00	0.00	1.31	0.96	0.00	0.00	0.36	0.00
D12	2023-06-21	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.00	0.00	1.08	0.00
D12	2023-06-22	0.00	0.00	0.12	0.00	0.12	0.36	0.84	0.00	0.00	0.12	0.00
D12	2023-06-23	0.00	0.00	0.36	0.00	0.12	0.72	0.60	0.00	0.00	5.98	0.00
D12	2023-06-24	0.00	0.00	0.12	0.00	0.12	0.36	1.67	0.00	0.00	0.00	0.00
D12	2023-06-25	0.00	0.00	0.72	0.00	0.24	0.24	3.34	0.00	0.00	0.24	0.00
D12	2023-06-26	0.00	0.00	0.12	0.00	0.12	0.36	2.15	0.00	0.24	0.24	0.00
D12	2023-06-27	0.12	0.00	0.36	0.00	0.12	0.71	1.31	0.00	0.00	0.71	0.00
D12	2023-06-28	0.36	0.00	1.19	0.00	0.24	0.95	1.55	0.00	0.00	0.24	0.00
D12	2023-06-29	0.00	0.00	0.00	0.00	0.00	1.30	1.30	0.00	0.00	0.71	0.00
D12	2023-06-30	0.12	0.00	0.24	0.00	0.12	1.30	1.18	0.00	0.24	0.83	0.00
D12	2023-07-01	0.00	0.00	0.00	0.00	0.36	1.30	2.96	0.00	0.00	0.71	0.00
D12	2023-07-02	0.00	0.00	0.47	0.00	0.00	1.42	8.50	0.00	0.35	2.01	0.00
D12	2023-07-03	0.00	0.00	0.47	0.00	0.00	1.88	3.06	0.00	0.00	1.29	0.00
D12	2023-07-04	0.00	0.00	0.70	0.00	0.35	1.06	3.76	0.00	0.23	0.70	0.00
D12	2023-07-05	0.12	0.00	0.23	0.00	0.12	0.23	0.82	0.00	0.00	0.35	0.00
D12	2023-07-06	0.00	0.00	0.12	0.00	0.12	0.58	1.75	0.00	0.00	0.93	0.00
D12	2023-07-07	0.00	0.00	0.12	0.00	0.12	0.23	0.47	0.00	0.12	0.23	0.00
D12	2023-07-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D12	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D12	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D12	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D12	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D12	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D13	2023-05-27	0.00	0.00	0.00	0.00	0.11	0.23	0.11	0.00	0.00	0.23	0.00
D13	2023-05-28	0.00	0.00	0.00	0.00	0.00	0.23	0.68	0.00	0.11	0.79	0.00
D13	2023-05-29	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
D13	2023-05-30	0.00	0.00	0.00	0.00	0.00	0.11	1.03	0.00	0.00	0.11	0.00
D13	2023-05-31	0.00	0.00	0.00	0.00	0.00	0.34	0.57	0.00	0.00	0.46	0.00
D13	2023-06-01	0.00	0.00	0.00	0.00	0.00	0.23	1.50	0.00	0.00	0.35	0.00
D13	2023-06-02	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.23	0.00
D13	2023-06-03	0.00	0.00	0.00	0.00	0.00	0.23	0.81	0.00	0.00	0.81	0.00
D13	2023-06-04	0.00	0.00	0.12	0.00	0.00	0.35	1.40	0.00	0.12	0.35	0.00
D13	2023-06-05	0.00	0.00	0.00	0.00	0.00	0.23	0.70	0.00	0.12	0.23	0.00
D13	2023-06-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00
D13	2023-06-07	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
D13	2023-06-08	0.00	0.00	0.00	0.00	0.00	0.24	0.82	0.00	0.00	0.35	0.00
D13	2023-06-09	0.00	0.00	0.00	0.00	0.12	0.00	0.47	0.00	0.00	0.12	0.00
D13	2023-06-10	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
D13	2023-06-11	0.00	0.00	0.00	0.00	0.00	0.24	0.47	0.00	0.00	0.47	0.00
D13	2023-06-12	0.00	0.00	0.00	0.00	0.12	0.12	0.48	0.00	0.00	0.12	0.00
D13	2023-06-13	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
D13	2023-06-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D13	2023-06-15	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.48	0.00
D13	2023-06-16	0.00	0.00	0.00	0.00	0.00	0.00	2.27	0.00	0.00	0.48	0.00
D13	2023-06-17	0.00	0.00	0.00	0.00	0.12	0.00	3.10	0.00	0.00	0.95	0.00
D13	2023-06-18	0.00	0.00	0.00	0.00	0.00	0.72	1.79	0.00	0.00	0.96	0.00
D13	2023-06-19	0.00	0.00	0.00	0.00	0.12	0.48	1.43	0.00	0.12	1.43	0.00
D13	2023-06-20	0.00	0.00	0.00	0.00	0.00	0.48	2.51	0.00	0.00	0.96	0.00
D13	2023-06-21	0.00	0.00	0.00	0.00	0.00	0.60	0.84	0.00	0.12	0.36	0.00
D13	2023-06-22	0.00	0.00	0.12	0.00	0.12	0.12	0.36	0.00	0.00	0.12	0.00
D13	2023-06-23	0.00	0.00	0.12	0.00	0.00	0.12	1.55	0.00	0.00	0.48	0.00
D13	2023-06-24	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.12	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
D13	2023-06-25	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.12	0.00
D13	2023-06-26	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.36	0.00
D13	2023-06-27	0.00	0.00	0.00	0.00	0.00	0.12	0.83	0.00	0.00	0.48	0.00
D13	2023-06-28	0.00	0.00	0.00	0.00	0.00	0.24	1.79	0.00	0.00	0.83	0.00
D13	2023-06-29	0.00	0.00	0.00	0.00	0.00	0.36	0.59	0.00	0.00	0.36	0.00
D13	2023-06-30	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	2.01	0.00
D13	2023-07-01	0.00	0.00	0.00	0.00	0.12	0.00	1.89	0.00	0.00	1.07	0.00
D13	2023-07-02	0.00	0.00	0.00	0.00	0.12	0.24	2.01	0.00	0.00	0.12	0.00
D13	2023-07-03	0.00	0.00	0.00	0.00	0.00	0.24	1.18	0.00	0.00	0.71	0.00
D13	2023-07-04	0.00	0.00	0.00	0.00	0.00	0.12	1.17	0.00	0.00	1.17	0.00
D13	2023-07-05	0.00	0.00	0.00	0.00	0.12	0.47	0.12	0.00	0.00	1.05	0.00
D13	2023-07-06	0.00	0.00	0.00	0.00	0.00	0.58	1.05	0.00	0.00	1.28	0.00
D13	2023-07-07	0.00	0.00	0.00	0.00	0.12	0.93	0.00	0.00	0.00	1.86	0.00
D13	2023-07-08	0.00	0.00	0.00	0.00	0.00	0.93	1.51	0.00	0.12	1.05	0.00
D13	2023-07-09	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.58	0.00
D13	2023-07-10	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.23	0.00
D13	2023-07-11	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.00	0.00	0.00	0.00
D13	2023-07-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D13	2023-07-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-07-16	0.42	0.00	0.21	0.00	0.84	0.42	4.01	1.48	0.00	2.96	0.00
Cliff 1-1	2023-07-17	0.63	0.00	0.00	0.00	0.00	0.42	3.76	0.00	0.00	0.00	0.00
Cliff 1-1	2023-07-18	0.21	0.00	0.00	0.00	0.21	0.42	12.46	1.66	0.00	4.36	0.00
Cliff 1-1	2023-07-19	1.23	0.00	0.00	0.00	0.62	1.44	4.32	0.21	0.00	0.41	0.00
Cliff 1-1	2023-07-20	0.20	0.00	0.00	0.00	0.00	1.02	7.55	0.00	0.00	1.22	0.00
Cliff 1-1	2023-07-21	0.00	0.00	0.00	0.40	0.61	2.02	4.04	0.20	0.00	2.42	0.00
Cliff 1-1	2023-07-22	1.00	0.00	0.00	0.00	0.80	0.60	7.02	0.00	0.00	1.40	0.00
Cliff 1-1	2023-07-23	0.80	0.00	0.20	0.00	1.00	0.60	5.60	0.20	0.00	0.40	0.00
Cliff 1-1	2023-07-24	0.20	0.00	0.00	0.20	1.00	2.20	11.40	0.20	0.00	1.20	0.00
Cliff 1-1	2023-07-25	1.00	0.00	0.00	0.40	1.00	0.80	6.40	0.40	0.00	0.60	0.00
Cliff 1-1	2023-07-26	1.00	0.00	0.00	0.00	1.20	0.00	20.20	0.40	0.00	1.20	0.00
Cliff 1-1	2023-07-27	0.00	0.00	0.00	0.00	0.60	1.00	4.60	0.40	0.00	2.60	0.00
Cliff 1-1	2023-07-28	0.40	0.00	0.00	0.00	0.60	1.60	6.60	0.00	0.00	1.60	0.00
Cliff 1-1	2023-07-29	0.20	0.00	0.00	0.60	1.80	2.40	6.20	0.40	0.00	1.00	0.00
Cliff 1-1	2023-07-30	0.20	0.00	0.00	0.40	0.40	2.00	7.80	0.20	0.00	1.60	0.00
Cliff 1-1	2023-07-31	1.00	0.00	0.00	0.00	0.60	2.20	8.40	0.20	0.00	2.40	0.00
Cliff 1-1	2023-08-01	0.00	0.00	0.00	0.40	0.40	1.80	7.00	0.40	0.00	1.40	0.00
Cliff 1-1	2023-08-02	0.40	0.00	0.00	0.60	0.40	0.80	5.00	0.40	0.00	0.60	0.00
Cliff 1-1	2023-08-03	0.60	0.00	0.00	0.00	0.40	1.40	4.80	0.00	0.00	0.60	0.00
Cliff 1-1	2023-08-04	2.00	0.00	0.00	0.00	1.80	0.40	21.40	0.00	0.00	1.80	0.00
Cliff 1-1	2023-08-05	0.40	0.00	0.00	0.40	0.60	1.00	10.20	0.00	0.00	1.20	0.00
Cliff 1-1	2023-08-06	0.00	0.00	0.00	0.80	0.80	0.60	6.60	0.00	0.00	1.80	0.00
Cliff 1-1	2023-08-07	0.00	0.00	0.00	0.20	0.60	1.00	7.80	0.00	0.00	1.60	0.00
Cliff 1-1	2023-08-08	0.60	0.00	0.40	0.20	0.80	0.60	2.40	0.00	0.00	1.80	0.00
Cliff 1-1	2023-08-09	0.60	0.00	0.00	0.60	1.60	0.20	1.60	0.00	0.00	0.60	0.00
Cliff 1-1	2023-08-10	1.60	0.00	0.20	0.00	0.40	0.80	36.60	1.20	0.00	5.00	0.00
Cliff 1-1	2023-08-11	0.40	0.00	0.20	0.00	0.00	0.20	24.00	0.40	0.00	5.40	0.00
Cliff 1-1	2023-08-12	1.59	0.00	0.00	0.79	0.79	0.79	3.18	0.00	0.00	0.20	0.00
Cliff 1-1	2023-08-13	0.20	0.00	0.00	0.39	0.20	0.59	15.69	0.20	0.00	1.37	0.00
Cliff 1-1	2023-08-14	0.77	0.00	0.00	0.19	0.77	1.94	34.26	0.58	0.00	5.23	0.00
Cliff 1-1	2023-08-15	1.15	0.00	0.00	0.38	0.96	0.96	10.16	0.19	0.00	2.11	0.00
Cliff 1-1	2023-08-16	1.14	0.00	0.00	0.19	0.38	0.00	1.32	0.00	0.00	0.00	0.00
Cliff 1-1	2023-08-17	0.00	0.00	0.00	0.56	0.19	0.37	4.87	0.00	0.00	1.12	0.00
Cliff 1-1	2023-08-18	0.19	0.00	0.00	0.00	0.19	1.30	17.04	0.00	0.00	0.74	0.00
Cliff 1-1	2023-08-19	0.55	0.00	0.00	0.37	1.10	1.10	6.22	0.00	0.00	2.38	0.00
Cliff 1-1	2023-08-20	0.18	0.00	0.00	0.00	0.00	0.36	2.90	0.00	0.00	0.18	0.00
Cliff 1-1	2023-08-21	0.90	0.00	0.00	0.00	0.72	0.54	2.15	0.00	0.00	0.36	0.00
Cliff 1-1	2023-08-22	0.36	0.00	0.00	0.18	0.18	1.42	14.73	0.36	0.00	4.97	0.00
Cliff 1-1	2023-08-23	0.52	0.00	0.00	0.00	0.17	0.17	1.92	0.00	0.00	0.00	0.00
Cliff 1-1	2023-08-24	0.87	0.00	0.00	0.17	0.35	0.17	2.25	0.00	0.00	0.35	0.00
Cliff 1-1	2023-08-25	0.34	0.00	0.00	0.00	0.69	0.00	1.54	0.17	0.00	0.34	0.00
Cliff 1-1	2023-08-26	0.17	0.00	0.00	0.00	0.00	0.34	1.02	0.00	0.00	0.34	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-1	2023-08-27	0.00	0.00	0.00	0.34	0.50	0.34	1.85	0.00	0.00	0.34	0.00
Cliff 1-1	2023-08-28	0.17	0.00	0.00	0.33	0.50	0.17	0.67	0.00	0.00	0.00	0.00
Cliff 1-1	2023-08-29	0.00	0.00	0.00	0.17	0.17	0.00	1.33	0.00	0.00	0.33	0.00
Cliff 1-1	2023-08-30	0.17	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.17	0.00
Cliff 1-1	2023-08-31	0.17	0.00	0.00	0.00	0.00	0.00	2.17	0.00	0.00	1.50	0.00
Cliff 1-1	2023-09-01	0.33	0.00	0.00	0.17	0.17	0.17	2.17	0.00	0.00	0.33	0.00
Cliff 1-1	2023-09-02	0.50	0.00	0.00	0.00	0.17	0.50	1.67	0.00	0.00	0.50	0.00
Cliff 1-1	2023-09-03	0.17	0.00	0.00	0.00	0.17	0.17	2.33	0.00	0.00	0.33	0.00
Cliff 1-1	2023-09-04	0.33	0.00	0.00	0.17	0.00	0.83	3.83	0.33	0.00	0.17	0.00
Cliff 1-1	2023-09-05	0.50	0.00	0.00	0.00	0.33	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-06	0.17	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-07	0.17	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-08	0.33	0.00	0.00	0.00	1.00	0.00	0.33	0.00	0.00	0.17	0.00
Cliff 1-1	2023-09-09	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.17	0.00	0.00	0.00
Cliff 1-1	2023-09-10	0.17	0.00	0.00	0.00	0.33	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-11	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-12	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-17	0.16	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-19	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-20	0.16	0.00	0.00	0.00	0.16	0.16	0.93	0.00	0.00	0.16	0.00
Cliff 1-1	2023-09-21	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-1	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
Cliff 1-1	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-07-16	6.76	0.00	0.00	0.00	6.34	0.21	11.83	1.69	0.00	1.69	0.00
Cliff 1-2	2023-07-17	4.81	0.00	0.00	0.00	6.27	0.21	11.08	0.21	0.00	1.25	0.00
Cliff 1-2	2023-07-18	3.74	0.00	0.00	0.00	6.64	0.83	23.25	1.45	0.00	2.28	0.00
Cliff 1-2	2023-07-19	6.57	0.00	0.41	0.00	7.40	1.23	6.78	0.21	0.00	0.82	0.00
Cliff 1-2	2023-07-20	1.84	0.00	0.00	0.00	0.41	1.02	13.06	0.00	0.00	0.82	0.00
Cliff 1-2	2023-07-21	1.01	0.00	0.00	0.20	1.82	3.03	10.91	0.00	0.00	0.20	0.00
Cliff 1-2	2023-07-22	2.61	0.00	0.00	0.60	3.81	0.60	4.41	0.00	0.00	0.40	0.00
Cliff 1-2	2023-07-23	4.80	0.00	0.40	0.20	6.20	0.20	5.20	0.40	0.00	0.60	0.00
Cliff 1-2	2023-07-24	2.40	0.00	0.00	0.00	3.40	3.40	19.80	1.40	0.00	1.60	0.00
Cliff 1-2	2023-07-25	1.40	0.00	0.00	0.60	0.40	2.60	9.00	0.40	0.00	0.60	0.00
Cliff 1-2	2023-07-26	1.40	0.00	0.80	0.20	2.00	0.20	27.39	0.80	0.00	3.20	0.00
Cliff 1-2	2023-07-27	5.60	0.00	0.00	0.00	9.20	1.40	9.40	2.00	0.00	1.40	0.00
Cliff 1-2	2023-07-28	1.40	0.00	0.00	0.20	2.00	2.40	17.40	0.20	0.00	3.20	0.00
Cliff 1-2	2023-07-29	4.00	0.00	0.20	0.80	3.60	2.00	9.00	0.80	0.00	1.60	0.00
Cliff 1-2	2023-07-30	3.60	0.00	0.00	1.20	4.80	1.40	39.00	1.00	0.00	1.00	0.00
Cliff 1-2	2023-07-31	1.20	0.00	0.20	1.20	2.20	1.80	12.40	0.40	0.00	2.00	0.00
Cliff 1-2	2023-08-01	0.20	0.00	0.00	0.20	0.20	2.20	8.60	0.00	0.00	0.20	0.00
Cliff 1-2	2023-08-02	0.20	0.00	0.00	1.20	0.40	1.20	6.20	0.20	0.00	0.60	0.00
Cliff 1-2	2023-08-03	1.60	0.00	0.40	0.00	0.20	0.20	12.40	0.20	0.00	0.40	0.00
Cliff 1-2	2023-08-04	3.20	0.00	0.00	0.20	2.40	0.40	13.60	0.20	0.00	1.60	0.00
Cliff 1-2	2023-08-05	0.20	0.00	0.00	2.80	0.80	1.80	16.20	0.00	0.00	0.80	0.00
Cliff 1-2	2023-08-06	0.80	0.00	0.00	1.00	2.40	0.40	11.60	0.20	0.00	0.60	0.00
Cliff 1-2	2023-08-07	4.40	0.00	1.20	0.80	8.80	1.00	10.40	0.00	0.00	0.40	0.00
Cliff 1-2	2023-08-08	5.40	0.00	0.00	2.20	10.60	0.60	6.00	0.60	0.00	0.60	0.00
Cliff 1-2	2023-08-09	17.40	0.00	0.20	0.20	26.20	0.00	4.80	0.20	0.00	0.40	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-2	2023-08-10	1.80	0.00	0.00	0.00	1.40	1.20	80.20	1.00	0.00	4.20	0.00
Cliff 1-2	2023-08-11	1.60	0.00	0.20	1.20	2.60	0.00	93.99	3.20	0.00	2.40	0.00
Cliff 1-2	2023-08-12	6.95	0.00	0.00	0.99	7.55	0.40	6.75	0.00	0.00	0.20	0.00
Cliff 1-2	2023-08-13	5.10	0.00	0.00	0.98	5.69	0.98	13.92	0.59	0.00	1.37	0.00
Cliff 1-2	2023-08-14	0.77	0.00	0.00	0.58	1.74	0.19	30.19	0.19	0.00	3.10	0.00
Cliff 1-2	2023-08-15	5.56	0.00	0.77	0.38	20.70	0.38	18.02	0.00	0.00	1.15	0.00
Cliff 1-2	2023-08-16	2.69	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-08-17	2.06	0.00	0.00	0.37	3.75	0.00	10.31	0.00	0.00	0.37	0.00
Cliff 1-2	2023-08-18	0.37	0.00	0.00	0.00	1.85	0.00	46.10	0.00	0.00	1.48	0.00
Cliff 1-2	2023-08-19	7.87	0.00	0.00	0.55	20.85	1.83	11.71	0.18	0.00	2.01	0.00
Cliff 1-2	2023-08-20	3.99	0.00	0.18	0.00	3.99	0.54	4.35	0.18	0.00	0.18	0.00
Cliff 1-2	2023-08-21	2.33	0.00	0.18	0.00	6.45	0.72	3.22	0.00	0.00	0.18	0.00
Cliff 1-2	2023-08-22	6.03	0.00	0.00	6.57	11.00	0.53	47.39	0.18	0.00	2.66	0.00
Cliff 1-2	2023-08-23	0.52	0.00	0.00	0.00	5.77	0.00	12.59	0.70	0.00	0.52	0.00
Cliff 1-2	2023-08-24	3.29	0.00	0.00	0.52	8.67	0.00	3.47	0.00	0.00	0.00	0.00
Cliff 1-2	2023-08-25	1.54	0.00	0.00	0.17	0.69	0.17	2.23	0.00	0.00	0.51	0.00
Cliff 1-2	2023-08-26	1.02	0.00	0.00	0.00	1.02	0.17	2.54	0.00	0.00	0.17	0.00
Cliff 1-2	2023-08-27	0.84	0.00	0.00	1.51	2.18	0.17	3.53	0.50	0.00	0.00	0.00
Cliff 1-2	2023-08-28	2.17	0.00	0.00	0.17	2.67	0.50	1.33	0.00	0.00	0.17	0.00
Cliff 1-2	2023-08-29	0.17	0.00	0.00	0.17	0.33	0.17	2.17	0.00	0.00	0.17	0.00
Cliff 1-2	2023-08-30	0.00	0.00	0.00	0.17	0.17	0.00	3.17	0.00	0.00	0.00	0.00
Cliff 1-2	2023-08-31	0.33	0.00	0.00	0.00	0.50	0.00	2.50	0.00	0.00	0.17	0.00
Cliff 1-2	2023-09-01	0.33	0.00	0.00	0.00	0.33	0.17	1.67	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-02	0.50	0.00	0.00	0.33	1.83	0.00	3.33	0.00	0.00	0.33	0.00
Cliff 1-2	2023-09-03	0.33	0.00	0.00	0.33	0.50	0.17	4.00	0.00	0.00	0.33	0.00
Cliff 1-2	2023-09-04	0.50	0.00	0.00	0.67	0.50	1.33	5.17	0.17	0.00	0.50	0.00
Cliff 1-2	2023-09-05	2.33	0.00	0.17	0.00	12.50	0.17	0.67	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-06	0.00	0.00	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-07	3.50	0.00	0.00	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-08	0.50	0.00	0.17	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-09	0.00	0.00	0.00	0.00	0.50	0.00	0.83	0.00	0.00	0.17	0.00
Cliff 1-2	2023-09-10	0.33	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.17	0.00
Cliff 1-2	2023-09-11	0.00	0.00	0.00	0.00	0.50	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-12	0.50	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-13	2.00	0.00	0.00	0.00	1.67	0.17	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-14	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-15	0.16	0.00	0.00	0.00	0.33	0.00	0.65	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-19	0.16	0.00	0.00	0.00	0.62	0.00	0.31	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-20	0.31	0.00	0.00	0.47	1.71	0.16	2.33	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-21	0.00	0.00	0.00	0.15	0.46	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.14	0.00
Cliff 1-2	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
Cliff 1-2	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-07-16	9.51	0.00	0.00	0.00	18.59	0.21	14.36	3.80	0.00	4.86	0.00
Cliff 1-3	2023-07-17	5.23	0.00	0.00	0.00	3.97	0.63	32.20	0.00	0.00	1.25	0.00
Cliff 1-3	2023-07-18	0.83	0.00	0.00	0.00	4.98	1.04	49.20	0.62	0.00	1.66	0.00
Cliff 1-3	2023-07-19	2.47	0.00	0.00	0.00	4.52	1.85	14.18	0.41	0.00	1.64	0.00
Cliff 1-3	2023-07-20	2.04	0.00	0.00	0.00	3.67	2.24	15.10	0.00	0.00	1.02	0.00
Cliff 1-3	2023-07-21	1.62	0.00	0.00	0.20	4.04	4.24	32.32	0.00	0.00	3.03	0.00
Cliff 1-3	2023-07-22	2.61	0.00	0.20	0.20	4.41	1.00	7.42	0.00	0.00	2.41	0.00
Cliff 1-3	2023-07-23	4.20	0.00	0.00	0.00	8.20	1.00	23.20	0.00	0.00	4.60	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-3	2023-07-24	3.80	0.00	0.20	0.20	8.60	7.00	24.20	0.40	0.00	4.00	0.00
Cliff 1-3	2023-07-25	1.60	0.00	0.20	1.00	1.00	4.40	4.80	0.00	0.00	0.60	0.00
Cliff 1-3	2023-07-26	1.60	0.00	0.00	0.20	3.00	0.40	45.79	0.00	0.00	3.20	0.00
Cliff 1-3	2023-07-27	5.80	0.00	0.00	0.20	9.00	2.40	19.60	2.40	0.00	5.00	0.00
Cliff 1-3	2023-07-28	2.20	0.00	0.00	0.80	2.80	3.00	9.20	0.20	0.00	1.40	0.00
Cliff 1-3	2023-07-29	3.20	0.00	0.00	0.80	3.60	4.40	24.00	0.40	0.00	1.80	0.00
Cliff 1-3	2023-07-30	3.80	0.00	0.00	1.00	9.00	4.00	72.40	1.20	0.00	3.60	0.00
Cliff 1-3	2023-07-31	4.00	0.00	0.00	0.20	7.40	4.60	22.00	0.00	0.00	2.80	0.00
Cliff 1-3	2023-08-01	5.60	0.00	0.60	0.40	1.00	5.80	10.60	0.20	0.00	1.40	0.00
Cliff 1-3	2023-08-02	1.20	0.00	0.00	0.40	0.60	1.60	4.60	0.00	0.00	0.60	0.00
Cliff 1-3	2023-08-03	3.80	0.00	0.20	0.00	3.80	1.20	15.80	0.00	0.00	1.60	0.00
Cliff 1-3	2023-08-04	1.20	0.00	0.20	0.00	1.80	1.20	16.80	0.00	0.00	2.00	0.00
Cliff 1-3	2023-08-05	0.20	0.00	0.00	1.00	1.40	3.00	17.00	0.00	0.00	1.40	0.00
Cliff 1-3	2023-08-06	0.80	0.00	0.00	1.00	2.00	2.00	12.20	0.40	0.00	1.60	0.00
Cliff 1-3	2023-08-07	4.80	0.00	0.00	0.40	7.00	2.00	8.60	0.00	0.00	1.20	0.00
Cliff 1-3	2023-08-08	4.60	0.00	0.00	1.60	8.60	1.40	5.40	0.20	0.00	1.60	0.00
Cliff 1-3	2023-08-09	23.00	0.00	0.60	0.20	28.40	0.20	21.00	4.60	0.00	3.20	0.00
Cliff 1-3	2023-08-10	1.80	0.00	0.20	0.20	1.20	0.60	63.79	1.00	0.00	4.20	0.00
Cliff 1-3	2023-08-11	2.00	0.00	0.00	0.20	4.60	0.40	29.60	1.40	0.00	5.00	0.00
Cliff 1-3	2023-08-12	5.96	0.00	0.20	0.60	4.77	0.20	4.57	0.00	0.00	1.19	0.00
Cliff 1-3	2023-08-13	3.92	0.00	0.00	0.59	8.63	2.35	13.92	0.00	0.00	0.39	0.00
Cliff 1-3	2023-08-14	1.74	0.00	0.00	0.19	0.58	0.58	19.35	0.00	0.00	1.16	0.00
Cliff 1-3	2023-08-15	1.92	0.00	0.19	0.58	5.75	0.96	12.27	0.19	0.00	1.15	0.00
Cliff 1-3	2023-08-16	9.27	0.00	0.00	0.00	12.87	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-08-17	18.19	0.00	0.00	0.00	24.56	0.37	7.87	0.00	0.00	2.25	0.00
Cliff 1-3	2023-08-18	0.74	0.00	0.00	0.19	0.74	0.56	45.55	0.00	0.00	0.93	0.00
Cliff 1-3	2023-08-19	7.32	0.00	0.00	0.18	16.83	3.11	9.15	0.00	0.00	1.83	0.00
Cliff 1-3	2023-08-20	2.90	0.00	0.00	0.36	5.80	1.81	8.34	0.00	0.00	1.81	0.00
Cliff 1-3	2023-08-21	2.15	0.00	0.00	0.18	8.24	0.54	26.86	0.00	0.00	1.07	0.00
Cliff 1-3	2023-08-22	0.53	0.00	0.00	0.18	4.79	0.35	13.49	0.35	0.00	1.24	0.00
Cliff 1-3	2023-08-23	0.17	0.00	0.35	0.00	4.72	0.00	26.41	0.17	0.00	1.40	0.00
Cliff 1-3	2023-08-24	1.91	0.00	0.00	0.17	8.32	0.87	2.25	0.00	0.00	1.91	0.00
Cliff 1-3	2023-08-25	0.86	0.00	0.00	0.00	1.20	0.00	2.91	0.00	0.00	0.69	0.00
Cliff 1-3	2023-08-26	1.19	0.00	0.00	0.00	2.88	0.00	2.03	0.00	0.00	0.34	0.00
Cliff 1-3	2023-08-27	0.34	0.00	0.00	1.18	11.59	0.17	11.09	0.17	0.00	1.68	0.00
Cliff 1-3	2023-08-28	0.50	0.00	0.00	0.67	1.50	0.67	1.00	0.00	0.00	0.17	0.00
Cliff 1-3	2023-08-29	0.33	0.00	0.00	0.00	0.00	0.17	2.83	0.00	0.00	0.50	0.00
Cliff 1-3	2023-08-30	0.33	0.00	0.00	0.00	0.17	0.00	3.17	0.17	0.00	0.17	0.00
Cliff 1-3	2023-08-31	0.00	0.00	0.00	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-01	1.00	0.00	0.00	0.00	0.50	0.83	2.33	0.00	0.00	0.50	0.00
Cliff 1-3	2023-09-02	0.17	0.00	0.00	0.00	0.83	0.33	1.00	0.00	0.00	0.17	0.00
Cliff 1-3	2023-09-03	0.00	0.00	0.00	0.00	0.33	0.17	6.33	0.00	0.00	0.83	0.00
Cliff 1-3	2023-09-04	0.17	0.00	0.00	0.17	0.00	2.67	4.67	0.00	0.00	0.83	0.00
Cliff 1-3	2023-09-05	2.17	0.00	0.00	0.00	7.17	0.00	0.17	0.00	0.00	0.50	0.00
Cliff 1-3	2023-09-06	0.17	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-07	1.00	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-08	0.33	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.83	0.00
Cliff 1-3	2023-09-09	0.17	0.00	0.00	0.17	1.00	0.00	1.17	0.17	0.00	0.33	0.00
Cliff 1-3	2023-09-10	0.17	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-11	0.00	0.00	0.00	0.00	0.17	0.50	0.00	0.00	0.00	0.17	0.00
Cliff 1-3	2023-09-12	0.33	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-13	1.50	0.00	0.17	0.17	3.33	0.17	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-14	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-15	0.33	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.16	0.00
Cliff 1-3	2023-09-16	0.00	0.00	0.00	0.16	0.00	2.42	0.16	0.00	0.00	0.65	0.00
Cliff 1-3	2023-09-17	0.00	0.00	0.00	0.00	0.32	0.00	0.64	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.16	0.00
Cliff 1-3	2023-09-19	0.00	0.00	0.00	0.00	0.47	0.00	0.31	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-20	0.16	0.00	0.00	0.16	0.16	0.16	0.62	0.00	0.00	0.16	0.00
Cliff 1-3	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00
Cliff 1-3	2023-09-22	0.15	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-3	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.29	0.00
Cliff 1-3	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00
Cliff 1-3	2023-10-01	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-07-16	4.65	0.00	0.00	0.00	11.20	0.00	12.46	8.87	0.00	3.59	0.00
Cliff 1-4	2023-07-17	1.67	0.00	0.00	0.00	3.97	0.00	3.14	0.00	0.00	0.42	0.00
Cliff 1-4	2023-07-18	0.62	0.00	0.00	0.00	2.49	1.87	82.01	0.21	0.00	2.91	0.00
Cliff 1-4	2023-07-19	2.05	0.00	0.21	0.00	1.03	2.26	36.78	0.00	0.00	1.44	0.00
Cliff 1-4	2023-07-20	1.63	0.00	0.00	0.00	1.43	1.22	13.47	0.00	0.00	0.61	0.00
Cliff 1-4	2023-07-21	0.40	0.00	0.00	0.00	0.40	1.62	54.34	0.40	0.00	3.03	0.00
Cliff 1-4	2023-07-22	0.80	0.00	0.40	0.00	3.61	0.20	8.83	0.00	0.00	0.80	0.00
Cliff 1-4	2023-07-23	3.80	0.00	0.80	0.00	9.80	0.60	23.00	0.00	0.00	2.60	0.00
Cliff 1-4	2023-07-24	3.00	0.00	0.00	0.20	5.60	5.60	27.80	0.20	0.00	2.80	0.00
Cliff 1-4	2023-07-25	2.60	0.00	0.00	0.20	2.00	1.20	5.60	0.20	0.00	1.00	0.00
Cliff 1-4	2023-07-26	1.00	0.00	0.00	0.20	0.80	0.40	41.19	0.00	0.00	1.80	0.00
Cliff 1-4	2023-07-27	2.80	0.00	0.00	0.00	10.40	2.60	17.80	0.80	0.00	2.00	0.00
Cliff 1-4	2023-07-28	2.80	0.00	0.00	0.60	3.60	2.80	8.60	0.20	0.00	2.20	0.00
Cliff 1-4	2023-07-29	1.40	0.00	0.00	0.20	3.20	4.00	17.60	0.60	0.00	1.20	0.00
Cliff 1-4	2023-07-30	2.20	0.00	0.00	1.00	4.60	5.00	31.40	0.20	0.00	3.60	0.00
Cliff 1-4	2023-07-31	2.00	0.00	0.00	0.60	4.60	3.80	22.80	0.00	0.00	1.40	0.00
Cliff 1-4	2023-08-01	0.40	0.00	0.40	0.20	1.00	7.40	10.00	0.20	0.00	2.20	0.00
Cliff 1-4	2023-08-02	0.80	0.00	0.20	0.00	1.40	1.40	5.40	0.40	0.00	0.60	0.00
Cliff 1-4	2023-08-03	0.80	0.00	0.00	0.00	0.80	1.00	14.80	0.00	0.00	2.40	0.00
Cliff 1-4	2023-08-04	0.00	0.00	0.20	0.00	2.20	1.00	21.00	0.00	0.00	1.40	0.00
Cliff 1-4	2023-08-05	0.00	0.00	0.00	1.60	1.20	3.20	17.80	0.00	0.00	2.00	0.00
Cliff 1-4	2023-08-06	0.80	0.00	0.20	0.40	1.20	0.40	10.60	0.00	0.00	0.80	0.00
Cliff 1-4	2023-08-07	2.20	0.00	0.00	0.40	2.60	1.80	11.60	0.00	0.00	2.40	0.00
Cliff 1-4	2023-08-08	0.80	0.00	0.00	0.80	4.80	0.80	9.20	0.20	0.00	0.40	0.00
Cliff 1-4	2023-08-09	3.00	0.00	0.20	0.40	11.60	0.20	13.00	6.40	0.00	5.40	0.00
Cliff 1-4	2023-08-10	2.36	0.00	0.00	0.00	2.02	1.35	113.89	0.67	0.00	10.45	0.00
Cliff 1-4	2023-08-11	0.80	0.00	0.00	0.00	2.00	0.00	10.60	0.20	0.00	1.00	0.00
Cliff 1-4	2023-08-12	2.78	0.00	0.00	0.99	5.17	0.20	3.77	0.00	0.00	1.19	0.00
Cliff 1-4	2023-08-13	1.18	0.00	0.00	0.39	1.57	0.98	19.21	0.00	0.00	1.57	0.00
Cliff 1-4	2023-08-14	1.55	0.00	0.00	0.39	0.97	0.97	21.28	0.00	0.00	1.93	0.00
Cliff 1-4	2023-08-15	1.34	0.00	0.00	0.38	3.64	0.77	27.03	0.19	0.00	1.15	0.00
Cliff 1-4	2023-08-16	6.25	0.00	3.03	0.00	3.22	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-08-17	2.25	0.00	0.00	0.19	8.25	0.00	12.75	0.19	0.00	2.25	0.00
Cliff 1-4	2023-08-18	0.37	0.00	0.19	0.00	0.74	0.74	44.06	0.56	0.00	1.85	0.00
Cliff 1-4	2023-08-19	2.01	0.00	0.00	0.18	5.85	3.84	10.61	0.00	0.00	2.74	0.00
Cliff 1-4	2023-08-20	0.91	0.00	0.18	0.00	3.44	1.99	10.88	0.36	0.00	1.27	0.00
Cliff 1-4	2023-08-21	0.72	0.00	0.00	0.18	0.54	0.90	71.10	0.18	0.00	1.43	0.00
Cliff 1-4	2023-08-22	0.89	0.00	0.00	0.18	1.60	0.53	26.80	0.18	0.00	1.78	0.00
Cliff 1-4	2023-08-23	0.87	0.00	0.00	0.00	2.62	0.17	37.43	0.17	0.00	2.27	0.00
Cliff 1-4	2023-08-24	1.21	0.00	0.17	0.00	1.21	0.35	1.04	0.00	0.00	0.17	0.00
Cliff 1-4	2023-08-25	0.34	0.00	0.00	0.00	0.17	0.51	3.26	0.00	0.00	0.51	0.00
Cliff 1-4	2023-08-26	0.68	0.00	0.00	0.00	1.53	0.17	2.54	0.00	0.00	0.17	0.00
Cliff 1-4	2023-08-27	0.00	0.00	0.00	1.34	3.02	0.34	5.55	0.17	0.00	0.50	0.00
Cliff 1-4	2023-08-28	0.83	0.00	0.00	0.00	1.00	0.17	0.50	0.00	0.00	0.50	0.00
Cliff 1-4	2023-08-29	0.50	0.00	0.00	0.00	0.17	0.17	3.00	0.00	0.00	0.17	0.00
Cliff 1-4	2023-08-30	0.00	0.00	0.00	0.00	0.00	0.00	2.33	0.00	0.00	0.17	0.00
Cliff 1-4	2023-08-31	0.00	0.00	0.00	0.00	0.00	0.00	2.83	0.00	0.00	0.33	0.00
Cliff 1-4	2023-09-01	0.00	0.00	0.00	0.17	0.17	0.33	4.33	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-02	0.33	0.00	0.00	0.00	0.50	0.33	2.17	0.00	0.00	0.33	0.00
Cliff 1-4	2023-09-03	0.00	0.00	0.00	0.00	0.00	0.33	5.67	0.17	0.00	0.67	0.00
Cliff 1-4	2023-09-04	0.00	0.00	0.00	0.17	0.33	2.50	3.83	0.00	0.00	0.83	0.00
Cliff 1-4	2023-09-05	0.50	0.00	0.00	0.17	3.50	0.00	0.50	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-4	2023-09-06	0.00	0.00	0.00	0.00	0.17	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-07	1.83	0.00	0.00	0.00	1.83	0.00	0.17	0.00	0.00	0.67	0.00
Cliff 1-4	2023-09-08	0.50	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-09	0.00	0.00	0.00	0.00	0.17	0.00	1.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-10	1.83	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.50	0.00
Cliff 1-4	2023-09-11	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-12	0.17	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-13	0.17	0.00	0.00	0.00	0.50	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.16	0.00
Cliff 1-4	2023-09-16	0.00	0.00	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.65	0.00
Cliff 1-4	2023-09-17	0.00	0.00	0.00	0.00	0.32	0.00	0.32	0.00	0.00	0.32	0.00
Cliff 1-4	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-19	0.00	0.00	0.00	0.00	0.62	0.00	0.78	0.16	0.00	0.00	0.00
Cliff 1-4	2023-09-20	0.00	0.00	0.00	0.00	0.16	0.16	1.24	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.15	0.29	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.00
Cliff 1-4	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00
Cliff 1-4	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-07-16	12.67	0.00	0.00	0.00	3.59	0.21	12.25	10.98	0.00	5.28	0.00
Cliff 1-5	2023-07-17	4.18	0.00	0.00	0.00	2.09	0.42	3.55	0.21	0.00	1.25	0.00
Cliff 1-5	2023-07-18	4.57	0.00	0.00	0.00	4.15	1.25	31.97	0.62	0.00	3.32	0.00
Cliff 1-5	2023-07-19	5.14	0.00	0.00	0.00	2.67	1.23	26.51	0.21	0.00	1.85	0.00
Cliff 1-5	2023-07-20	2.04	0.00	0.00	0.20	0.41	1.22	7.35	0.00	0.00	1.22	0.00
Cliff 1-5	2023-07-21	2.42	0.00	0.00	0.00	1.82	2.02	40.60	0.81	0.00	2.42	0.00
Cliff 1-5	2023-07-22	3.21	0.00	0.00	0.00	4.82	1.00	2.81	0.00	0.00	1.40	0.00
Cliff 1-5	2023-07-23	9.40	0.00	0.20	0.00	8.40	0.40	10.80	0.00	0.00	1.00	0.00
Cliff 1-5	2023-07-24	7.60	0.00	0.20	0.00	5.40	5.00	16.40	0.20	0.00	3.40	0.00
Cliff 1-5	2023-07-25	2.20	0.00	0.00	0.00	3.60	2.40	2.40	0.00	0.00	1.40	0.00
Cliff 1-5	2023-07-26	2.80	0.00	0.00	0.00	2.80	0.40	33.59	0.20	0.00	1.60	0.00
Cliff 1-5	2023-07-27	10.20	0.00	0.80	0.20	6.20	2.60	3.80	0.60	0.00	1.40	0.00
Cliff 1-5	2023-07-28	24.80	0.00	0.60	0.20	18.20	3.20	4.40	0.00	0.00	2.80	0.00
Cliff 1-5	2023-07-29	2.60	0.00	0.20	0.00	4.60	2.40	17.00	0.80	0.00	3.00	0.00
Cliff 1-5	2023-07-30	6.40	0.00	0.40	0.20	4.20	4.00	16.40	0.00	0.00	2.40	0.00
Cliff 1-5	2023-07-31	5.00	0.00	0.20	0.60	4.00	2.40	19.80	0.00	0.00	1.40	0.00
Cliff 1-5	2023-08-01	1.00	0.00	0.00	1.00	1.20	4.20	8.60	0.00	0.00	2.20	0.00
Cliff 1-5	2023-08-02	0.40	0.00	0.00	0.60	0.20	1.40	5.40	0.00	0.00	1.60	0.00
Cliff 1-5	2023-08-03	0.20	0.00	0.00	0.00	1.40	1.40	13.60	0.00	0.00	1.00	0.00
Cliff 1-5	2023-08-04	0.60	0.00	0.00	0.00	0.20	1.20	14.00	0.00	0.00	1.60	0.00
Cliff 1-5	2023-08-05	0.60	0.00	0.20	2.00	0.60	4.00	15.20	0.40	0.00	1.80	0.00
Cliff 1-5	2023-08-06	2.20	0.00	0.00	1.00	2.60	0.40	4.60	0.20	0.00	0.80	0.00
Cliff 1-5	2023-08-07	5.60	0.00	0.00	1.00	2.60	0.60	11.60	0.20	0.00	1.20	0.00
Cliff 1-5	2023-08-08	2.40	0.00	0.00	1.20	2.20	0.40	2.80	0.60	0.00	0.60	0.00
Cliff 1-5	2023-08-09	27.40	0.00	0.20	0.60	8.80	0.20	12.60	7.00	0.00	4.40	0.00
Cliff 1-5	2023-08-10	1.60	0.00	0.00	0.00	1.40	0.40	56.19	1.40	0.00	6.20	0.00
Cliff 1-5	2023-08-11	2.20	0.00	0.00	0.00	2.40	0.40	4.20	1.00	0.00	1.00	0.00
Cliff 1-5	2023-08-12	7.55	0.00	0.20	0.60	3.77	1.59	2.19	0.00	0.00	0.20	0.00
Cliff 1-5	2023-08-13	1.96	0.00	0.20	0.39	1.57	1.18	10.78	0.00	0.00	1.57	0.00
Cliff 1-5	2023-08-14	0.77	0.00	0.00	0.39	1.16	0.77	5.61	0.00	0.00	1.16	0.00
Cliff 1-5	2023-08-15	4.60	0.00	0.00	0.19	4.02	0.77	28.94	0.00	0.00	1.53	0.00
Cliff 1-5	2023-08-16	8.33	0.00	0.57	0.00	2.27	0.00	0.19	0.00	0.00	0.00	0.00
Cliff 1-5	2023-08-17	20.06	0.00	0.56	0.75	8.25	0.19	9.94	0.94	0.00	1.31	0.00
Cliff 1-5	2023-08-18	1.85	0.00	0.00	0.00	3.15	0.19	23.14	0.19	0.00	2.22	0.00
Cliff 1-5	2023-08-19	13.53	0.00	0.18	0.37	8.41	2.56	8.23	0.18	0.00	2.56	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-5	2023-08-20	7.43	0.00	0.00	0.18	3.81	0.73	13.23	0.00	0.00	1.09	0.00
Cliff 1-5	2023-08-21	2.51	0.00	0.36	0.00	2.15	0.36	33.85	0.00	0.00	2.15	0.00
Cliff 1-5	2023-08-22	1.06	0.00	0.00	0.35	0.89	0.89	11.00	0.00	0.00	1.24	0.00
Cliff 1-5	2023-08-23	0.52	0.00	0.00	0.00	1.05	0.00	39.00	0.00	0.00	1.22	0.00
Cliff 1-5	2023-08-24	2.08	0.00	0.00	0.17	3.12	0.35	1.21	0.00	0.00	0.35	0.00
Cliff 1-5	2023-08-25	0.69	0.00	0.00	0.00	0.86	0.00	1.89	0.00	0.00	0.51	0.00
Cliff 1-5	2023-08-26	2.03	0.00	0.17	0.00	3.73	0.00	2.88	0.00	0.00	0.17	0.00
Cliff 1-5	2023-08-27	2.52	0.00	0.00	3.53	3.36	0.00	3.70	0.00	0.00	0.84	0.00
Cliff 1-5	2023-08-28	1.50	0.00	0.00	0.00	1.17	0.00	0.50	0.00	0.00	0.00	0.00
Cliff 1-5	2023-08-29	0.00	0.00	0.00	0.00	0.00	0.50	1.17	0.33	0.00	0.00	0.00
Cliff 1-5	2023-08-30	0.00	0.00	0.17	0.17	0.33	0.67	5.00	0.17	0.00	0.67	0.00
Cliff 1-5	2023-08-31	0.17	0.00	0.00	0.00	0.67	0.17	1.17	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-01	0.17	0.00	0.00	0.00	0.33	0.17	2.67	0.00	0.00	0.17	0.00
Cliff 1-5	2023-09-02	0.17	0.00	0.00	0.00	0.17	0.33	2.33	0.17	0.00	0.17	0.00
Cliff 1-5	2023-09-03	0.00	0.00	0.00	0.17	0.00	0.33	5.33	0.00	0.00	0.33	0.00
Cliff 1-5	2023-09-04	0.17	0.00	0.00	0.33	0.17	1.67	3.50	0.00	0.00	0.83	0.00
Cliff 1-5	2023-09-05	2.83	0.00	0.00	0.00	2.67	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-06	0.17	0.00	0.00	0.00	0.17	0.00	0.67	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-07	3.67	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-08	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-09	0.33	0.00	0.00	0.00	0.33	0.17	0.17	0.00	0.00	0.17	0.00
Cliff 1-5	2023-09-10	1.17	0.00	0.00	0.00	1.17	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-11	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-12	0.33	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-13	0.33	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-14	0.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-16	0.16	0.00	0.00	0.00	0.16	2.10	0.16	0.00	0.00	1.29	0.00
Cliff 1-5	2023-09-17	0.32	0.00	0.16	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.16	0.00
Cliff 1-5	2023-09-19	0.16	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-20	0.00	0.00	0.00	2.79	0.62	0.00	0.31	0.00	0.00	0.31	0.00
Cliff 1-5	2023-09-21	0.00	0.00	0.00	0.46	0.15	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-5	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2023-07-16	14.15	0.00	0.21	0.00	2.32	0.21	8.45	4.65	0.00	3.80	0.00
Cliff 1-6	2023-07-17	8.36	0.00	0.00	0.00	2.72	0.63	4.18	0.00	0.00	0.21	0.00
Cliff 1-6	2023-07-18	8.51	0.00	0.00	0.00	2.91	1.04	21.80	0.21	0.00	1.25	0.00
Cliff 1-6	2023-07-19	5.14	0.00	0.21	0.21	2.26	1.64	15.62	0.00	0.00	1.44	0.00
Cliff 1-6	2023-07-20	1.43	0.00	0.00	0.00	0.41	1.22	6.94	0.20	0.00	0.41	0.00
Cliff 1-6	2023-07-21	1.21	0.00	0.20	0.20	1.21	3.23	41.21	0.20	0.00	0.20	0.00
Cliff 1-6	2023-07-22	6.02	0.00	0.40	0.00	1.20	0.40	5.02	0.40	0.00	0.60	0.00
Cliff 1-6	2023-07-23	8.00	0.00	0.20	0.00	4.40	1.20	13.20	0.20	0.00	0.40	0.00
Cliff 1-6	2023-07-24	10.00	0.00	0.20	0.00	2.80	6.20	15.20	0.00	0.00	1.40	0.00
Cliff 1-6	2023-07-25	1.80	0.00	0.00	0.20	1.20	2.20	4.40	0.00	0.00	0.60	0.00
Cliff 1-6	2023-07-26	3.40	0.00	0.00	0.00	1.40	1.00	28.59	0.00	0.00	1.20	0.00
Cliff 1-6	2023-07-27	17.40	0.00	0.00	0.80	3.20	4.00	9.20	2.40	0.00	0.80	0.00
Cliff 1-6	2023-07-28	15.60	0.00	0.00	0.60	3.00	3.20	9.40	0.00	0.00	0.40	0.00
Cliff 1-6	2023-07-29	10.00	0.00	0.00	0.40	4.60	4.40	15.20	0.40	0.00	0.80	0.00
Cliff 1-6	2023-07-30	11.60	0.00	0.00	0.60	3.20	4.60	15.20	0.40	0.00	1.20	0.00
Cliff 1-6	2023-07-31	5.80	0.00	0.20	0.80	1.60	2.80	16.00	0.00	0.00	1.20	0.00
Cliff 1-6	2023-08-01	1.00	0.00	0.00	0.40	0.40	4.60	11.80	0.00	0.00	1.40	0.00
Cliff 1-6	2023-08-02	0.80	0.00	0.00	0.40	0.00	1.80	5.20	0.00	0.00	0.60	0.00
Cliff 1-6	2023-08-03	1.40	0.00	0.00	0.00	0.80	1.20	15.60	0.00	0.00	0.60	0.00
Cliff 1-6	2023-08-04	1.20	0.00	0.00	0.20	0.20	1.20	17.00	0.40	0.00	2.00	0.00
Cliff 1-6	2023-08-05	0.80	0.00	0.00	2.00	0.80	4.80	20.00	0.00	0.00	1.40	0.00
Cliff 1-6	2023-08-06	4.40	0.00	0.00	1.00	1.80	0.60	6.60	0.00	0.00	0.40	0.00
Cliff 1-6	2023-08-07	7.60	0.00	0.20	2.40	3.60	2.20	17.40	0.00	0.00	0.40	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-6	2023-08-08	6.80	0.00	0.20	2.60	3.20	0.60	4.80	0.40	0.00	0.80	0.00
Cliff 1-6	2023-08-09	35.80	0.00	0.40	0.00	8.40	0.20	3.00	0.80	0.00	0.60	0.00
Cliff 1-6	2023-08-10	4.00	0.00	0.00	0.00	1.60	0.20	27.59	0.40	0.00	1.00	0.00
Cliff 1-6	2023-08-11	9.00	0.00	0.00	0.60	3.40	0.40	6.20	0.00	0.00	0.80	0.00
Cliff 1-6	2023-08-12	7.35	0.00	0.00	1.39	0.60	0.40	2.98	0.20	0.00	0.60	0.00
Cliff 1-6	2023-08-13	5.29	0.00	0.20	0.59	1.57	1.18	17.06	0.20	0.00	1.18	0.00
Cliff 1-6	2023-08-14	1.35	0.00	0.00	0.39	0.19	1.16	10.45	0.00	0.00	1.16	0.00
Cliff 1-6	2023-08-15	10.35	0.00	0.00	0.38	3.83	1.72	18.02	0.00	0.00	1.53	0.00
Cliff 1-6	2023-08-16	9.27	0.00	0.57	0.00	3.41	0.19	0.38	0.00	0.00	0.00	0.00
Cliff 1-6	2023-08-17	25.69	0.00	0.00	0.75	3.94	0.00	9.19	0.94	0.00	1.12	0.00
Cliff 1-6	2023-08-18	6.11	0.00	0.00	0.19	3.52	0.00	15.18	0.37	0.00	0.93	0.00
Cliff 1-6	2023-08-19	18.84	0.00	0.00	0.18	6.22	3.84	10.42	0.18	0.00	1.83	0.00
Cliff 1-6	2023-08-20	14.32	0.00	0.00	0.18	2.18	1.27	10.88	0.73	0.00	0.18	0.00
Cliff 1-6	2023-08-21	9.13	0.00	0.00	0.36	2.87	0.36	25.07	0.00	0.00	0.00	0.00
Cliff 1-6	2023-08-22	1.60	0.00	0.00	0.18	1.42	0.18	6.57	0.00	0.00	0.53	0.00
Cliff 1-6	2023-08-23	11.02	0.00	0.17	0.00	7.70	0.17	38.65	0.17	0.00	2.10	0.00
Cliff 1-6	2023-08-24	3.64	0.00	0.00	0.35	2.60	0.00	2.25	0.00	0.00	0.52	0.00
Cliff 1-6	2023-08-25	0.51	0.00	0.00	0.00	0.51	0.00	2.06	0.17	0.00	0.86	0.00
Cliff 1-6	2023-08-26	3.39	0.00	0.00	0.17	1.36	0.17	3.39	0.00	0.00	0.34	0.00
Cliff 1-6	2023-08-27	6.39	0.00	0.00	3.86	2.35	0.34	4.87	0.17	0.00	0.67	0.00
Cliff 1-6	2023-08-28	2.83	0.00	0.17	0.17	1.83	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-6	2023-08-29	0.00	0.00	0.00	0.00	0.33	0.33	2.67	0.00	0.00	0.50	0.00
Cliff 1-6	2023-08-30	0.00	0.00	0.00	0.00	0.00	0.00	4.67	0.00	0.00	0.33	0.00
Cliff 1-6	2023-08-31	0.17	0.00	0.00	0.00	0.50	0.00	0.67	0.17	0.00	0.17	0.00
Cliff 1-6	2023-09-01	0.17	0.00	0.00	0.17	0.50	0.33	1.50	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-02	0.17	0.00	0.17	0.00	0.67	0.17	1.33	0.00	0.00	0.17	0.00
Cliff 1-6	2023-09-03	0.17	0.00	0.00	0.00	0.17	0.50	7.50	0.00	0.00	0.17	0.00
Cliff 1-6	2023-09-04	0.33	0.00	0.00	2.17	0.00	2.67	4.67	0.00	0.00	1.17	0.00
Cliff 1-6	2023-09-05	6.83	0.00	0.17	0.00	1.50	0.00	0.50	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-06	0.17	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.33	0.00
Cliff 1-6	2023-09-07	4.00	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-08	0.17	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-09	0.67	0.00	0.00	0.00	1.33	0.00	0.67	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-10	1.33	0.00	0.00	0.00	0.50	0.17	0.00	0.00	0.00	0.33	0.00
Cliff 1-6	2023-09-11	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-12	1.17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-13	0.17	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-14	0.66	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.16	0.00
Cliff 1-6	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.16	0.00
Cliff 1-6	2023-09-16	0.16	0.00	0.00	0.00	0.00	3.55	0.32	0.00	0.00	0.32	0.00
Cliff 1-6	2023-09-17	0.64	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-18	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-19	0.31	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-6	2023-09-20	0.00	0.00	0.00	3.41	0.62	0.16	1.24	0.00	0.00	0.16	0.00
Cliff 1-6	2023-09-21	0.16	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2023-07-16	0.21	0.00	0.00	0.00	3.17	0.21	15.00	4.22	0.00	3.80	0.00
Cliff 1-7	2023-07-17	0.84	0.00	0.00	0.00	2.51	0.84	5.02	0.00	0.00	0.42	0.00
Cliff 1-7	2023-07-18	0.00	0.00	0.00	0.00	1.25	0.83	7.47	0.21	0.00	0.83	0.00
Cliff 1-7	2023-07-19	0.00	0.00	0.00	0.00	0.62	2.26	9.66	0.00	0.00	1.44	0.00
Cliff 1-7	2023-07-20	0.82	0.00	0.00	0.00	0.20	1.43	8.16	0.00	0.00	1.02	0.00
Cliff 1-7	2023-07-21	1.21	0.00	0.00	0.20	0.61	3.23	35.75	0.00	0.00	1.01	0.00
Cliff 1-7	2023-07-22	0.40	0.00	0.00	0.20	2.21	2.41	6.62	0.20	0.00	1.40	0.00
Cliff 1-7	2023-07-23	2.20	0.00	0.00	0.00	1.00	1.60	8.60	0.20	0.00	1.80	0.00
Cliff 1-7	2023-07-24	0.40	0.00	0.00	0.20	2.60	8.20	21.20	0.00	0.00	1.60	0.00
Cliff 1-7	2023-07-25	9.60	0.00	0.00	0.20	4.00	2.80	6.60	0.00	0.00	0.60	0.00
Cliff 1-7	2023-07-26	1.60	0.00	0.00	0.00	1.00	2.40	45.19	0.40	0.00	0.80	0.00
Cliff 1-7	2023-07-27	0.80	0.00	0.00	0.40	4.40	4.80	9.40	1.40	0.00	1.00	0.00
Cliff 1-7	2023-07-28	1.60	0.00	0.00	0.60	3.20	2.20	8.00	0.00	0.00	1.00	0.00
Cliff 1-7	2023-07-29	2.00	0.00	0.00	0.40	1.20	6.20	8.20	0.40	0.00	0.80	0.00
Cliff 1-7	2023-07-30	0.80	0.00	0.00	0.20	1.80	5.60	13.80	0.00	0.00	1.00	0.00
Cliff 1-7	2023-07-31	1.40	0.00	0.20	1.40	1.80	3.20	17.80	0.40	0.00	1.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-7	2023-08-01	1.40	0.00	0.00	0.60	0.20	6.60	15.00	0.40	0.00	1.00	0.00
Cliff 1-7	2023-08-02	0.40	0.00	0.00	1.20	0.40	2.00	8.00	0.40	0.00	1.20	0.00
Cliff 1-7	2023-08-03	1.00	0.00	0.00	0.40	0.40	1.20	13.00	0.20	0.00	1.00	0.00
Cliff 1-7	2023-08-04	0.20	0.00	0.00	0.00	0.80	2.20	23.80	0.00	0.00	1.80	0.00
Cliff 1-7	2023-08-05	0.20	0.00	0.00	2.60	1.00	6.40	22.20	0.00	0.00	1.40	0.00
Cliff 1-7	2023-08-06	0.20	0.00	0.00	1.00	1.00	0.60	11.40	0.00	0.00	2.00	0.00
Cliff 1-7	2023-08-07	2.80	0.00	0.00	0.40	3.60	1.20	12.80	0.00	0.00	2.00	0.00
Cliff 1-7	2023-08-08	0.40	0.00	0.00	1.60	0.60	1.80	6.00	0.00	0.00	0.40	0.00
Cliff 1-7	2023-08-09	0.80	0.00	0.00	0.80	4.40	0.80	1.60	0.20	0.00	2.40	0.00
Cliff 1-7	2023-08-10	1.80	0.00	0.00	0.00	1.40	2.00	26.00	0.40	0.00	2.80	0.00
Cliff 1-7	2023-08-11	0.00	0.00	0.00	1.20	5.20	1.60	5.80	0.00	0.00	3.40	0.00
Cliff 1-7	2023-08-12	0.40	0.00	0.00	0.79	0.79	0.99	4.77	0.00	0.00	0.99	0.00
Cliff 1-7	2023-08-13	1.37	0.00	0.00	0.39	2.35	0.78	27.06	0.20	0.00	1.37	0.00
Cliff 1-7	2023-08-14	0.97	0.00	0.00	0.00	0.77	1.16	17.03	0.00	0.00	0.97	0.00
Cliff 1-7	2023-08-15	0.96	0.00	0.00	0.38	2.11	1.53	16.49	0.19	0.00	1.15	0.00
Cliff 1-7	2023-08-16	1.89	0.00	0.00	0.00	1.51	0.57	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2023-08-17	0.56	0.00	0.00	0.19	4.31	1.12	6.75	0.19	0.00	2.25	0.00
Cliff 1-7	2023-08-18	1.85	0.00	0.56	0.37	1.85	0.74	26.66	0.19	0.00	0.56	0.00
Cliff 1-7	2023-08-19	0.55	0.00	0.00	0.91	0.55	4.76	13.72	0.18	0.00	2.19	0.00
Cliff 1-7	2023-08-20	0.36	0.00	0.00	0.18	2.54	1.09	9.79	0.18	0.00	1.27	0.00
Cliff 1-7	2023-08-21	0.90	0.00	0.00	0.36	0.72	0.54	32.24	0.00	0.00	1.07	0.00
Cliff 1-7	2023-08-22	0.89	0.00	0.00	0.53	0.89	1.42	10.12	0.00	0.00	1.07	0.00
Cliff 1-7	2023-08-23	0.52	0.00	0.00	0.00	0.87	0.52	51.42	0.17	0.00	4.02	0.00
Cliff 1-7	2023-08-24	1.21	0.00	0.00	0.35	1.73	0.17	3.64	0.00	0.00	0.69	0.00
Cliff 1-7	2023-08-25	0.17	0.00	0.00	0.00	0.00	0.34	3.26	0.00	0.00	0.51	0.00
Cliff 1-7	2023-08-26	0.68	0.00	0.00	0.17	1.02	0.17	2.88	0.00	0.00	0.17	0.00
Cliff 1-7	2023-08-27	0.00	0.00	0.00	0.34	0.50	0.34	6.05	0.00	0.00	0.17	0.00
Cliff 1-7	2023-08-28	0.67	0.00	0.00	0.17	1.83	0.83	0.50	0.00	0.00	1.00	0.00
Cliff 1-7	2023-08-29	0.00	0.00	0.00	0.33	0.17	0.33	1.83	0.00	0.00	0.00	0.00
Cliff 1-7	2023-08-30	0.50	0.00	0.00	0.00	0.17	0.00	3.33	0.00	0.00	0.50	0.00
Cliff 1-7	2023-08-31	0.00	0.00	0.00	0.00	0.00	0.00	10.67	0.00	0.00	0.67	0.00
Cliff 1-7	2023-09-01	0.00	0.00	0.00	0.17	0.17	0.17	1.33	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-02	0.00	0.00	0.00	0.00	0.33	0.33	1.67	0.00	0.00	0.17	0.00
Cliff 1-7	2023-09-03	0.50	0.00	0.00	0.00	0.00	0.33	6.00	0.00	0.00	0.17	0.00
Cliff 1-7	2023-09-04	0.33	0.00	0.00	0.33	0.00	1.83	7.00	0.17	0.00	0.33	0.00
Cliff 1-7	2023-09-05	0.33	0.00	0.00	0.17	1.50	0.17	1.50	0.33	0.00	0.50	0.00
Cliff 1-7	2023-09-06	0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-07	0.50	0.00	0.17	0.00	1.33	0.00	0.00	0.00	0.00	0.50	0.00
Cliff 1-7	2023-09-08	0.17	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.33	0.00
Cliff 1-7	2023-09-09	0.83	0.00	0.00	0.00	0.17	0.00	0.67	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-10	0.50	0.00	0.00	0.00	0.33	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-11	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-12	0.17	0.00	0.00	0.00	0.50	0.00	0.17	0.00	0.00	0.17	0.00
Cliff 1-7	2023-09-13	0.50	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-14	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.16	0.00
Cliff 1-7	2023-09-16	0.00	0.00	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.32	0.00
Cliff 1-7	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.16	0.00
Cliff 1-7	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-19	0.16	0.00	0.00	0.00	0.00	0.00	1.56	0.00	0.00	0.16	0.00
Cliff 1-7	2023-09-20	0.16	0.00	0.00	0.00	0.00	0.31	2.17	0.00	0.00	0.47	0.00
Cliff 1-7	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.15	0.00
Cliff 1-7	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.15	0.00
Cliff 1-7	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00
Cliff 1-7	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.14	0.00
Cliff 1-7	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-7	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.14	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-7	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-07-16	12.88	0.00	0.00	0.00	6.34	0.21	11.41	3.80	0.00	3.80	0.00
Cliff 1-8	2023-07-17	5.23	0.00	0.00	0.00	1.88	0.42	5.23	0.42	0.00	0.63	0.00
Cliff 1-8	2023-07-18	6.02	0.00	0.00	0.00	3.74	0.62	8.10	0.21	0.00	2.28	0.00
Cliff 1-8	2023-07-19	5.96	0.00	0.00	0.00	2.26	2.26	10.27	0.41	0.00	0.62	0.00
Cliff 1-8	2023-07-20	2.24	0.00	0.00	0.00	2.04	1.02	4.90	0.41	0.00	0.61	0.00
Cliff 1-8	2023-07-21	2.22	0.00	0.00	0.00	1.01	3.64	23.43	0.00	0.00	2.63	0.00
Cliff 1-8	2023-07-22	5.82	0.00	0.00	0.00	2.81	0.40	3.01	0.00	0.00	1.00	0.00
Cliff 1-8	2023-07-23	9.80	0.00	0.00	0.00	2.00	0.60	6.60	0.00	0.00	1.20	0.00
Cliff 1-8	2023-07-24	9.00	0.00	0.00	0.00	3.40	4.80	21.80	0.40	0.00	3.80	0.00
Cliff 1-8	2023-07-25	1.60	0.00	0.00	0.00	2.40	1.80	3.00	0.00	0.00	2.40	0.00
Cliff 1-8	2023-07-26	0.80	0.00	0.00	0.00	1.00	1.00	12.80	0.00	0.00	2.20	0.00
Cliff 1-8	2023-07-27	17.40	0.00	0.20	0.20	7.60	2.80	6.20	0.40	0.00	3.80	0.00
Cliff 1-8	2023-07-28	9.00	0.00	0.00	0.00	3.80	1.60	4.60	0.00	0.00	0.60	0.00
Cliff 1-8	2023-07-29	5.00	0.00	0.00	0.20	5.00	3.80	4.00	0.20	0.00	2.60	0.00
Cliff 1-8	2023-07-30	11.20	0.00	0.20	0.00	5.00	4.60	10.00	0.20	0.00	2.60	0.00
Cliff 1-8	2023-07-31	2.80	0.00	0.00	2.40	1.60	1.60	8.80	0.00	0.00	1.80	0.00
Cliff 1-8	2023-08-01	0.20	0.00	0.00	0.40	1.40	5.00	14.00	0.00	0.00	1.40	0.00
Cliff 1-8	2023-08-02	0.80	0.00	0.00	0.60	0.20	1.60	3.80	0.00	0.00	2.20	0.00
Cliff 1-8	2023-08-03	0.60	0.00	0.00	0.00	0.40	1.00	8.80	0.00	0.00	1.80	0.00
Cliff 1-8	2023-08-04	1.60	0.00	0.00	0.00	0.40	1.40	11.80	0.00	0.00	3.60	0.00
Cliff 1-8	2023-08-05	1.00	0.00	0.20	5.20	2.00	6.00	16.80	0.00	0.00	1.60	0.00
Cliff 1-8	2023-08-06	3.00	0.00	0.20	0.60	3.20	1.00	8.00	0.00	0.00	1.40	0.00
Cliff 1-8	2023-08-07	11.00	0.00	0.40	1.00	6.00	2.20	13.20	0.00	0.00	2.00	0.00
Cliff 1-8	2023-08-08	5.20	0.00	0.00	1.20	5.00	0.80	3.40	0.00	0.00	1.20	0.00
Cliff 1-8	2023-08-09	12.40	0.00	0.20	0.00	6.60	0.40	0.80	0.20	0.00	0.80	0.00
Cliff 1-8	2023-08-10	3.40	0.00	0.00	0.00	3.00	1.20	7.60	0.20	0.00	2.20	0.00
Cliff 1-8	2023-08-11	4.80	0.00	0.20	0.80	3.00	0.40	3.80	0.20	0.00	1.00	0.00
Cliff 1-8	2023-08-12	5.17	0.00	0.00	2.19	2.58	0.79	3.58	0.00	0.00	1.79	0.00
Cliff 1-8	2023-08-13	3.53	0.00	0.00	0.59	1.76	1.18	11.96	0.39	0.00	1.57	0.00
Cliff 1-8	2023-08-14	0.58	0.00	0.00	0.58	0.77	0.39	8.51	0.00	0.00	1.93	0.00
Cliff 1-8	2023-08-15	6.33	0.00	0.00	0.96	4.79	2.68	7.09	0.00	0.00	3.26	0.00
Cliff 1-8	2023-08-16	7.76	0.00	0.19	0.00	3.97	0.00	0.57	0.00	0.00	0.19	0.00
Cliff 1-8	2023-08-17	8.44	0.00	0.00	0.56	8.25	0.37	6.00	0.00	0.00	2.44	0.00
Cliff 1-8	2023-08-18	2.96	0.00	0.00	0.37	3.52	0.37	20.55	0.00	0.00	2.04	0.00
Cliff 1-8	2023-08-19	9.14	0.00	0.00	0.37	6.04	4.02	14.81	0.37	0.00	2.38	0.00
Cliff 1-8	2023-08-20	4.35	0.00	0.00	0.54	1.27	1.27	7.25	0.00	0.00	0.91	0.00
Cliff 1-8	2023-08-21	3.94	0.00	0.36	0.00	1.79	0.00	22.57	0.00	0.00	2.15	0.00
Cliff 1-8	2023-08-22	2.48	0.00	0.00	0.18	1.77	0.00	7.81	0.00	0.00	1.42	0.00
Cliff 1-8	2023-08-23	7.17	0.00	0.00	0.00	10.32	0.00	13.64	0.17	0.00	1.92	0.00
Cliff 1-8	2023-08-24	3.64	0.00	0.17	0.00	4.86	0.35	2.25	0.00	0.00	0.87	0.00
Cliff 1-8	2023-08-25	0.34	0.00	0.17	0.00	0.17	0.51	1.54	0.00	0.00	0.34	0.00
Cliff 1-8	2023-08-26	2.03	0.00	0.00	0.00	1.69	0.17	0.85	0.00	0.00	0.00	0.00
Cliff 1-8	2023-08-27	2.86	0.00	0.00	1.34	3.19	0.50	2.52	0.00	0.00	1.01	0.00
Cliff 1-8	2023-08-28	2.67	0.00	0.00	0.00	2.00	0.00	0.17	0.00	0.00	0.17	0.00
Cliff 1-8	2023-08-29	0.00	0.00	0.00	0.00	0.33	0.33	1.67	0.00	0.00	0.33	0.00
Cliff 1-8	2023-08-30	0.67	0.00	0.00	0.00	0.17	0.33	1.33	0.00	0.00	0.33	0.00
Cliff 1-8	2023-08-31	1.33	0.00	0.00	0.00	1.67	0.00	0.83	0.00	0.00	0.50	0.00
Cliff 1-8	2023-09-01	0.17	0.00	0.00	0.17	0.33	0.33	0.67	0.00	0.00	0.50	0.00
Cliff 1-8	2023-09-02	0.00	0.00	0.00	0.17	0.50	0.00	1.83	0.00	0.00	0.50	0.00
Cliff 1-8	2023-09-03	0.17	0.00	0.00	0.17	0.00	1.17	3.50	0.00	0.00	1.67	0.00
Cliff 1-8	2023-09-04	0.17	0.00	0.00	0.33	0.17	1.50	3.83	0.00	0.00	1.67	0.00
Cliff 1-8	2023-09-05	3.50	0.00	0.00	0.00	1.67	0.00	0.50	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-06	0.17	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-07	2.50	0.00	0.00	0.00	1.50	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-08	0.17	0.00	0.00	0.00	0.33	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-09	0.33	0.00	0.00	0.00	0.50	0.33	1.50	0.00	0.00	0.50	0.00
Cliff 1-8	2023-09-10	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
Cliff 1-8	2023-09-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-12	0.33	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-13	0.33	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-8	2023-09-14	0.33	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-16	0.16	0.00	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.97	0.00
Cliff 1-8	2023-09-17	0.64	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.16	0.00
Cliff 1-8	2023-09-19	0.16	0.00	0.00	0.00	0.16	0.16	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-20	0.00	0.00	0.00	0.31	1.86	0.31	2.79	0.00	0.00	0.47	0.00
Cliff 1-8	2023-09-21	0.00	0.00	0.00	0.31	0.31	0.31	0.46	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00
Cliff 1-8	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00
Cliff 1-8	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2023-07-16	16.48	0.00	0.63	0.00	8.24	0.00	11.41	5.07	0.00	4.01	0.00
Cliff 1-9	2023-07-17	6.48	0.00	0.00	0.00	3.14	0.21	3.14	0.00	0.00	0.00	0.00
Cliff 1-9	2023-07-18	6.44	0.00	0.00	0.00	5.61	0.00	2.70	0.00	0.00	0.42	0.00
Cliff 1-9	2023-07-19	12.12	0.00	0.00	0.00	5.14	3.49	13.56	0.00	0.00	1.44	0.00
Cliff 1-9	2023-07-20	3.27	0.00	0.00	0.00	1.84	0.82	6.94	0.00	0.00	0.82	0.00
Cliff 1-9	2023-07-21	2.22	0.00	0.20	0.00	2.63	2.02	39.59	0.81	0.00	2.02	0.00
Cliff 1-9	2023-07-22	3.01	0.00	0.00	0.20	1.81	0.60	4.01	0.00	0.00	0.60	0.00
Cliff 1-9	2023-07-23	10.20	0.00	0.20	0.00	5.80	2.00	8.40	0.20	0.00	1.60	0.00
Cliff 1-9	2023-07-24	6.00	0.00	0.00	0.00	3.20	5.00	15.40	0.00	0.00	1.20	0.00
Cliff 1-9	2023-07-25	2.60	0.00	0.00	0.20	2.20	2.00	7.60	0.20	0.00	1.40	0.00
Cliff 1-9	2023-07-26	0.00	0.00	0.00	0.00	0.00	0.40	0.60	0.00	0.00	0.20	0.00
Cliff 1-9	2023-07-27	15.20	0.00	0.20	0.40	7.20	2.60	6.40	1.00	0.00	1.20	0.00
Cliff 1-9	2023-07-28	8.60	0.00	0.00	0.60	4.40	1.20	7.60	0.00	0.00	0.20	0.00
Cliff 1-9	2023-07-29	7.00	0.00	0.20	0.40	6.20	3.00	7.00	0.00	0.00	0.60	0.00
Cliff 1-9	2023-07-30	16.60	0.00	0.20	0.40	4.40	4.20	9.40	0.00	0.00	1.00	0.00
Cliff 1-9	2023-07-31	6.80	0.00	0.20	1.80	5.40	2.40	10.80	0.00	0.00	0.60	0.00
Cliff 1-9	2023-08-01	1.20	0.00	0.00	0.00	0.80	5.00	17.20	0.20	0.00	2.20	0.00
Cliff 1-9	2023-08-02	0.60	0.00	0.00	1.20	0.60	1.60	9.40	0.20	0.00	0.60	0.00
Cliff 1-9	2023-08-03	0.80	0.00	0.00	0.40	0.80	0.40	9.60	0.40	0.00	1.20	0.00
Cliff 1-9	2023-08-04	4.60	0.00	0.00	0.00	1.40	1.00	13.20	0.00	0.00	1.60	0.00
Cliff 1-9	2023-08-05	2.60	0.00	0.00	3.20	1.20	3.00	23.00	0.00	0.00	1.00	0.00
Cliff 1-9	2023-08-06	3.80	0.00	0.00	0.60	3.20	1.20	13.40	0.00	0.00	1.40	0.00
Cliff 1-9	2023-08-07	11.60	0.00	0.20	1.80	6.00	1.20	16.40	0.20	0.00	1.00	0.00
Cliff 1-9	2023-08-08	5.80	0.00	0.00	2.00	2.20	0.60	5.00	0.00	0.00	0.60	0.00
Cliff 1-9	2023-08-09	34.20	0.00	0.60	0.20	13.60	0.80	1.20	0.00	0.00	1.20	0.00
Cliff 1-9	2023-08-10	5.40	0.00	0.00	0.20	4.40	2.20	14.20	0.00	0.00	2.20	0.00
Cliff 1-9	2023-08-11	0.20	0.00	0.00	0.20	0.40	0.00	0.80	0.00	0.00	1.00	0.00
Cliff 1-9	2023-08-12	5.17	0.00	0.00	2.38	1.59	0.60	4.17	0.00	0.00	0.40	0.00
Cliff 1-9	2023-08-13	2.55	0.00	0.00	0.59	1.76	0.39	8.24	0.20	0.00	0.78	0.00
Cliff 1-9	2023-08-14	1.35	0.00	0.00	0.58	0.58	0.39	23.22	0.00	0.00	2.13	0.00
Cliff 1-9	2023-08-15	7.28	0.00	0.00	2.30	5.18	0.58	9.20	0.00	0.00	1.53	0.00
Cliff 1-9	2023-08-16	20.62	0.00	0.00	0.00	9.46	0.19	0.38	0.00	0.00	0.00	0.00
Cliff 1-9	2023-08-17	4.31	0.00	0.00	1.31	4.69	0.37	7.69	0.00	0.00	0.75	0.00
Cliff 1-9	2023-08-18	4.44	0.00	0.00	0.37	5.18	0.93	22.77	0.19	0.00	0.93	0.00
Cliff 1-9	2023-08-19	13.90	0.00	0.18	0.00	6.04	3.11	19.57	1.28	0.00	2.93	0.00
Cliff 1-9	2023-08-20	9.42	0.00	0.36	2.36	9.42	0.54	5.26	0.00	0.00	0.91	0.00
Cliff 1-9	2023-08-21	4.48	0.00	0.00	0.00	2.69	0.00	11.64	0.18	0.00	0.36	0.00
Cliff 1-9	2023-08-22	1.95	0.00	0.00	0.53	1.42	0.53	4.97	0.00	0.00	1.06	0.00
Cliff 1-9	2023-08-23	7.52	0.00	0.00	0.00	10.84	0.17	11.37	0.70	0.00	1.40	0.00
Cliff 1-9	2023-08-24	3.12	0.00	0.17	0.17	1.56	0.17	1.91	0.00	0.00	0.69	0.00
Cliff 1-9	2023-08-25	0.17	0.00	0.00	0.00	0.00	0.51	3.94	0.00	0.00	0.00	0.00
Cliff 1-9	2023-08-26	3.39	0.00	0.00	0.17	1.53	0.17	1.69	0.00	0.00	0.00	0.00
Cliff 1-9	2023-08-27	6.05	0.00	0.00	1.01	6.22	0.17	5.88	0.00	0.00	0.50	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-9	2023-08-28	3.67	0.00	0.17	0.00	3.17	0.33	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2023-08-29	0.50	0.00	0.00	0.00	0.17	0.33	3.33	0.00	0.00	0.00	0.00
Cliff 1-9	2023-08-30	0.33	0.00	0.00	0.00	0.00	0.50	1.00	0.00	0.00	0.17	0.00
Cliff 1-9	2023-08-31	4.33	0.00	0.00	0.00	2.50	0.33	2.33	0.00	0.00	0.50	0.00
Cliff 1-9	2023-09-01	0.17	0.00	0.00	0.17	0.50	0.33	1.67	0.00	0.00	0.33	0.00
Cliff 1-9	2023-09-02	1.50	0.00	0.00	0.17	1.50	0.17	3.33	0.00	0.00	0.67	0.00
Cliff 1-9	2023-09-03	0.67	0.00	0.00	0.17	0.17	0.67	4.33	0.00	0.00	0.17	0.00
Cliff 1-9	2023-09-04	1.17	0.00	0.17	1.00	2.67	2.00	6.50	0.00	0.00	1.00	0.00
Cliff 1-9	2023-09-05	3.67	0.00	0.00	0.17	2.00	0.00	0.67	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-06	0.17	0.00	0.00	0.00	1.00	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-07	4.50	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-08	1.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-09	0.33	0.00	0.00	0.00	0.50	0.33	1.00	0.00	0.00	0.17	0.00
Cliff 1-9	2023-09-10	0.17	0.00	0.00	0.00	0.17	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-12	0.67	0.00	0.00	0.00	0.33	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-13	0.33	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-14	0.33	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-16	0.00	0.00	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.16	0.00
Cliff 1-9	2023-09-17	0.80	0.00	0.00	0.00	0.48	0.00	0.16	0.00	0.00	0.16	0.00
Cliff 1-9	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
Cliff 1-9	2023-09-19	1.09	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-20	0.00	0.00	0.00	1.71	0.47	0.16	1.40	0.16	0.00	0.31	0.00
Cliff 1-9	2023-09-21	0.00	0.00	0.00	0.31	0.15	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
Cliff 1-9	2023-09-23	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.15	0.00
Cliff 1-9	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-07-16	12.67	0.00	0.21	0.00	7.60	0.00	8.87	5.07	0.00	4.01	0.00
Cliff 1-10	2023-07-17	4.18	0.00	0.00	0.00	1.05	0.00	1.67	0.21	0.00	0.42	0.00
Cliff 1-10	2023-07-18	5.61	0.00	0.00	0.00	3.53	0.42	2.08	0.00	0.00	1.45	0.00
Cliff 1-10	2023-07-19	4.73	0.00	0.00	0.00	4.73	1.44	5.75	0.00	0.00	2.26	0.00
Cliff 1-10	2023-07-20	2.65	0.00	0.00	0.00	1.22	0.82	8.37	0.20	0.00	0.61	0.00
Cliff 1-10	2023-07-21	0.81	0.00	0.20	0.20	1.41	2.42	32.32	0.20	0.00	2.83	0.00
Cliff 1-10	2023-07-22	3.81	0.00	0.00	0.20	1.40	0.20	3.81	0.00	0.00	0.80	0.00
Cliff 1-10	2023-07-23	7.60	0.00	0.00	0.20	3.80	0.80	6.40	0.00	0.00	1.00	0.00
Cliff 1-10	2023-07-24	6.20	0.00	0.00	0.40	4.40	4.40	13.00	0.20	0.00	2.80	0.00
Cliff 1-10	2023-07-25	0.40	0.00	0.00	0.00	1.00	1.00	5.80	0.00	0.00	1.60	0.00
Cliff 1-10	2023-07-26	0.00	0.00	0.00	0.00	0.00	0.20	1.60	0.00	0.00	0.20	0.00
Cliff 1-10	2023-07-27	11.00	0.00	0.00	0.20	5.20	1.60	4.40	0.60	0.00	1.20	0.00
Cliff 1-10	2023-07-28	7.40	0.00	0.00	0.40	4.80	0.60	5.00	0.00	0.00	0.40	0.00
Cliff 1-10	2023-07-29	3.80	0.00	0.00	0.60	4.40	3.60	8.40	0.00	0.00	1.40	0.00
Cliff 1-10	2023-07-30	6.80	0.00	0.00	0.80	5.20	3.60	8.60	0.00	0.00	1.80	0.00
Cliff 1-10	2023-07-31	3.00	0.00	0.00	1.00	1.80	1.80	11.00	0.00	0.00	2.00	0.00
Cliff 1-10	2023-08-01	0.20	0.00	0.00	0.20	0.40	2.60	14.00	0.40	0.00	3.00	0.00
Cliff 1-10	2023-08-02	0.80	0.00	0.00	1.60	1.20	1.40	7.60	0.00	0.00	1.00	0.00
Cliff 1-10	2023-08-03	1.00	0.00	0.00	0.00	1.20	1.20	9.40	0.00	0.00	2.00	0.00
Cliff 1-10	2023-08-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-10	2023-08-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-08-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-10	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-07-16	0.85	0.00	0.00	0.00	0.42	0.00	1.48	0.00	0.00	0.21	0.00
Cliff 1-control	2023-07-17	1.88	0.00	0.00	0.00	1.46	0.00	3.34	0.00	0.00	0.21	0.00
Cliff 1-control	2023-07-18	2.91	0.00	0.21	0.00	0.62	0.00	9.96	0.42	0.00	1.04	0.00
Cliff 1-control	2023-07-19	0.21	0.00	0.00	0.00	0.00	1.03	9.45	0.00	0.00	0.82	0.00
Cliff 1-control	2023-07-20	1.63	0.00	0.20	0.00	1.43	1.84	5.92	0.20	0.00	1.22	0.00
Cliff 1-control	2023-07-21	4.65	0.00	0.00	0.00	2.42	0.61	21.41	0.20	0.00	2.42	0.00
Cliff 1-control	2023-07-22	1.81	0.00	0.00	0.20	1.00	1.81	4.21	0.00	0.00	0.40	0.00
Cliff 1-control	2023-07-23	0.40	0.00	0.00	0.00	0.20	0.80	5.60	0.00	0.00	0.80	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-control	2023-07-24	0.60	0.00	0.20	0.00	0.80	4.20	13.40	0.00	0.00	3.00	0.00
Cliff 1-control	2023-07-25	7.00	0.00	0.00	0.20	2.40	2.60	3.60	0.00	0.00	2.80	0.00
Cliff 1-control	2023-07-26	3.80	0.00	0.20	0.20	3.40	1.60	9.00	0.00	0.00	1.80	0.00
Cliff 1-control	2023-07-27	0.80	0.00	0.00	0.20	0.80	1.00	4.20	0.00	0.00	2.20	0.00
Cliff 1-control	2023-07-28	0.40	0.00	0.00	0.00	0.00	1.00	3.20	0.40	0.00	1.00	0.00
Cliff 1-control	2023-07-29	1.00	0.00	0.00	0.40	0.60	1.80	8.20	0.00	0.00	1.80	0.00
Cliff 1-control	2023-07-30	1.20	0.00	0.00	0.40	2.80	1.80	6.60	0.00	0.00	2.00	0.00
Cliff 1-control	2023-07-31	0.20	0.00	0.00	0.00	0.00	1.40	8.00	0.00	0.00	1.40	0.00
Cliff 1-control	2023-08-01	0.40	0.00	0.00	0.60	0.80	1.60	14.40	0.20	0.00	2.40	0.00
Cliff 1-control	2023-08-02	0.60	0.00	0.20	0.00	1.20	1.60	4.80	0.20	0.00	1.00	0.00
Cliff 1-control	2023-08-03	0.20	0.00	0.00	0.00	0.20	0.80	6.80	0.00	0.00	0.80	0.00
Cliff 1-control	2023-08-04	0.20	0.00	0.00	0.00	1.20	0.60	13.20	0.40	0.00	2.60	0.00
Cliff 1-control	2023-08-05	0.00	0.00	0.00	0.40	0.40	3.80	10.60	0.60	0.00	3.80	0.00
Cliff 1-control	2023-08-06	1.00	0.00	0.00	0.60	0.40	0.80	5.60	0.00	0.00	1.60	0.00
Cliff 1-control	2023-08-07	0.00	0.00	0.00	0.20	0.80	0.60	11.20	0.00	0.00	2.60	0.00
Cliff 1-control	2023-08-08	0.20	0.00	0.00	0.00	0.40	0.20	5.00	0.20	0.00	1.60	0.00
Cliff 1-control	2023-08-09	0.60	0.00	0.20	0.20	1.00	1.60	0.80	0.00	0.00	0.80	0.00
Cliff 1-control	2023-08-10	0.80	0.00	0.00	0.00	1.80	2.00	13.00	0.40	0.00	4.20	0.00
Cliff 1-control	2023-08-11	0.40	0.00	0.00	0.80	0.80	0.00	5.80	0.00	0.00	2.00	0.00
Cliff 1-control	2023-08-12	0.40	0.00	0.00	0.00	0.40	0.60	3.58	0.20	0.00	1.99	0.00
Cliff 1-control	2023-08-13	0.00	0.00	0.00	0.00	0.39	1.96	7.84	0.39	0.00	1.37	0.00
Cliff 1-control	2023-08-14	1.35	0.00	0.00	0.39	2.71	4.06	33.09	0.39	0.00	6.39	0.00
Cliff 1-control	2023-08-15	0.58	0.00	0.00	0.00	0.19	0.38	7.09	0.19	0.00	1.15	0.00
Cliff 1-control	2023-08-16	0.19	0.00	0.00	0.00	0.57	0.19	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-08-17	0.19	0.00	0.00	0.37	1.31	0.37	3.37	0.00	0.00	1.12	0.00
Cliff 1-control	2023-08-18	1.48	0.00	0.00	0.93	1.11	2.96	7.41	0.19	0.00	2.96	0.00
Cliff 1-control	2023-08-19	0.55	0.00	0.00	0.18	1.10	0.73	5.67	0.00	0.00	4.02	0.00
Cliff 1-control	2023-08-20	0.18	0.00	0.00	0.00	0.54	1.81	2.72	0.00	0.00	0.73	0.00
Cliff 1-control	2023-08-21	0.18	0.00	0.00	0.36	0.00	0.36	2.51	0.18	0.00	1.07	0.00
Cliff 1-control	2023-08-22	0.35	0.00	0.00	0.00	0.53	0.18	6.92	0.35	0.00	1.06	0.00
Cliff 1-control	2023-08-23	0.35	0.00	0.00	0.00	0.87	0.17	5.25	0.00	0.00	1.40	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-control	2023-08-24	0.69	0.00	0.17	0.52	0.69	0.00	2.08	0.00	0.00	0.69	0.00
Cliff 1-control	2023-08-25	0.00	0.00	0.00	0.00	0.00	0.17	3.94	0.17	0.00	1.20	0.00
Cliff 1-control	2023-08-26	0.51	0.00	0.00	0.00	1.02	0.51	3.39	0.17	0.00	0.68	0.00
Cliff 1-control	2023-08-27	0.00	0.00	0.00	0.17	0.84	0.00	3.02	0.00	0.00	1.01	0.00
Cliff 1-control	2023-08-28	0.17	0.00	0.00	0.33	1.67	0.00	0.33	0.00	0.00	0.17	0.00
Cliff 1-control	2023-08-29	0.17	0.00	0.00	0.00	0.50	0.17	2.50	0.00	0.00	0.50	0.00
Cliff 1-control	2023-08-30	0.33	0.00	0.00	0.33	0.50	0.67	2.17	0.00	0.00	0.33	0.00
Cliff 1-control	2023-08-31	0.67	0.00	0.00	0.00	1.67	0.17	5.00	0.00	0.00	1.00	0.00
Cliff 1-control	2023-09-01	0.00	0.00	0.00	0.00	1.83	0.33	3.33	0.33	0.00	0.50	0.00
Cliff 1-control	2023-09-02	0.00	0.00	0.00	0.33	1.17	0.83	3.83	0.33	0.00	0.83	0.00
Cliff 1-control	2023-09-03	0.33	0.00	0.33	0.17	1.17	0.17	3.50	0.00	0.00	0.33	0.00
Cliff 1-control	2023-09-04	0.00	0.00	0.00	0.00	1.00	1.17	5.00	0.00	0.00	0.50	0.00
Cliff 1-control	2023-09-05	0.67	0.00	0.00	0.00	0.50	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-06	0.50	0.00	0.00	0.00	0.33	0.00	0.17	0.00	0.00	0.17	0.00
Cliff 1-control	2023-09-07	0.50	0.00	0.00	0.00	0.83	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-08	0.17	0.00	0.00	0.17	0.17	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-09	0.33	0.00	0.00	0.00	0.17	0.00	0.50	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-10	0.50	0.00	0.00	0.00	0.17	0.00	0.67	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-11	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-12	0.33	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-13	0.17	0.00	0.00	0.00	0.17	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-17	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-18	0.00	0.00	0.00	0.00	0.32	0.16	0.00	0.00	0.00	0.32	0.00
Cliff 1-control	2023-09-19	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.47	0.00
Cliff 1-control	2023-09-20	0.00	0.00	0.00	0.16	0.00	0.16	0.31	0.00	0.00	0.62	0.00
Cliff 1-control	2023-09-21	0.15	0.00	0.00	0.00	0.46	0.00	0.31	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-control	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-07-17	0.63	0.00	0.21	0.00	0.84	0.00	1.05	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-07-18	0.21	0.00	0.21	0.00	0.42	0.62	3.74	0.00	0.00	0.21	0.00
Cliff 1-control2	2023-07-19	0.21	0.00	0.00	0.00	1.44	1.85	2.26	0.21	0.00	0.00	0.00
Cliff 1-control2	2023-07-20	0.20	0.00	0.00	0.00	0.41	0.41	6.94	0.20	0.00	0.41	0.00
Cliff 1-control2	2023-07-21	0.00	0.00	0.00	0.00	0.00	0.40	0.40	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-07-22	0.60	0.00	0.20	0.00	0.40	1.00	3.41	0.00	0.00	0.40	0.00
Cliff 1-control2	2023-07-23	0.00	0.00	0.00	0.40	1.20	1.20	3.80	0.00	0.00	0.60	0.00
Cliff 1-control2	2023-07-24	0.20	0.00	0.00	0.00	1.20	5.00	5.60	0.00	0.00	1.40	0.00
Cliff 1-control2	2023-07-25	0.20	0.00	0.00	0.20	0.20	2.40	1.40	0.40	0.00	0.20	0.00
Cliff 1-control2	2023-07-26	0.00	0.00	0.00	0.00	0.00	0.20	3.40	0.00	0.00	0.40	0.00
Cliff 1-control2	2023-07-27	2.60	0.00	0.80	1.20	1.80	0.40	1.20	0.00	0.00	0.20	0.00
Cliff 1-control2	2023-07-28	0.40	0.00	0.00	0.20	0.00	1.20	2.40	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-07-29	1.40	0.00	0.00	1.20	0.60	6.00	6.40	0.00	0.00	1.20	0.00
Cliff 1-control2	2023-07-30	1.00	0.00	0.20	0.60	1.60	9.00	4.00	0.00	0.00	1.40	0.00
Cliff 1-control2	2023-07-31	0.00	0.00	0.00	0.60	0.40	4.60	9.80	0.00	0.00	0.40	0.00
Cliff 1-control2	2023-08-01	0.80	0.00	0.00	0.60	0.60	7.60	14.60	1.00	0.00	2.20	0.00
Cliff 1-control2	2023-08-02	0.40	0.00	0.00	0.40	0.40	2.40	7.20	0.00	0.00	1.00	0.00
Cliff 1-control2	2023-08-03	0.00	0.00	0.00	1.40	0.40	0.80	9.80	0.40	0.00	0.80	0.00
Cliff 1-control2	2023-08-04	0.60	0.00	0.00	0.40	1.20	1.00	15.80	0.00	0.00	0.80	0.00
Cliff 1-control2	2023-08-05	0.80	0.00	0.20	0.00	0.60	3.80	9.60	0.20	0.00	0.40	0.00
Cliff 1-control2	2023-08-06	0.60	0.00	0.00	2.20	1.60	0.80	13.40	0.00	0.00	2.00	0.00
Cliff 1-control2	2023-08-07	1.00	0.00	0.00	0.40	0.80	0.80	6.00	0.00	0.00	0.40	0.00
Cliff 1-control2	2023-08-08	1.60	0.00	0.00	0.20	0.20	1.00	3.00	0.00	0.00	0.80	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-control2	2023-08-09	1.00	0.00	0.40	0.00	1.20	0.40	1.20	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-08-10	1.20	0.00	0.00	0.20	1.60	0.20	11.00	0.00	0.00	1.00	0.00
Cliff 1-control2	2023-08-11	0.00	0.00	0.00	0.00	0.20	0.20	0.40	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-08-12	0.99	0.00	0.00	0.79	0.00	0.20	2.58	0.20	0.00	0.40	0.00
Cliff 1-control2	2023-08-13	0.59	0.00	0.00	0.20	0.59	1.37	2.35	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-08-14	0.00	0.00	0.00	0.19	0.00	0.97	6.58	0.00	0.00	0.39	0.00
Cliff 1-control2	2023-08-15	1.73	0.00	0.00	0.00	2.68	0.77	5.18	0.00	0.00	0.58	0.00
Cliff 1-control2	2023-08-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-08-17	0.37	0.00	0.00	0.00	1.12	0.19	3.94	0.00	0.00	0.19	0.00
Cliff 1-control2	2023-08-18	0.37	0.00	0.00	0.19	0.74	0.93	4.81	0.00	0.00	0.74	0.00
Cliff 1-control2	2023-08-19	0.00	0.00	0.00	0.00	0.37	0.37	3.11	0.37	0.00	0.55	0.00
Cliff 1-control2	2023-08-20	0.54	0.00	0.00	0.00	0.36	0.36	4.53	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-08-21	0.00	0.00	0.18	0.18	0.18	0.00	4.12	0.00	0.00	0.18	0.00
Cliff 1-control2	2023-08-22	0.18	0.00	0.00	0.18	0.36	0.18	7.81	0.00	0.00	1.07	0.00
Cliff 1-control2	2023-08-23	0.00	0.00	0.00	0.00	0.17	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-08-24	0.69	0.00	0.35	0.00	0.69	0.00	1.04	0.00	0.00	0.35	0.00
Cliff 1-control2	2023-08-25	0.17	0.00	0.00	0.00	0.34	0.00	3.77	0.17	0.00	0.51	0.00
Cliff 1-control2	2023-08-26	0.68	0.00	0.34	0.00	0.34	0.00	2.71	0.17	0.00	0.00	0.00
Cliff 1-control2	2023-08-27	0.00	0.00	0.00	0.00	0.00	0.34	0.17	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-08-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-08-29	0.17	0.00	0.00	0.00	0.50	0.17	1.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-08-30	0.83	0.00	0.17	0.17	0.17	0.67	2.50	0.00	0.00	0.33	0.00
Cliff 1-control2	2023-08-31	0.00	0.00	0.00	0.17	0.00	0.33	9.33	0.33	0.00	1.00	0.00
Cliff 1-control2	2023-09-01	0.83	0.00	0.00	0.00	0.33	0.17	1.67	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-02	0.00	0.00	0.00	0.00	0.00	3.67	1.00	0.00	0.00	0.17	0.00
Cliff 1-control2	2023-09-03	0.17	0.00	0.00	0.00	0.00	0.50	6.50	0.00	0.00	0.67	0.00
Cliff 1-control2	2023-09-04	0.33	0.00	0.00	0.33	0.50	1.33	6.50	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.33	0.00
Cliff 1-control2	2023-09-06	0.00	0.00	0.00	0.00	0.00	0.17	1.33	0.17	0.00	0.00	0.00
Cliff 1-control2	2023-09-07	0.17	0.00	0.00	0.00	0.50	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-08	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.50	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-control2	2023-09-09	0.00	0.00	0.00	0.00	0.00	0.17	1.33	0.00	0.00	0.33	0.00
Cliff 1-control2	2023-09-10	0.33	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.17	0.00
Cliff 1-control2	2023-09-11	0.00	0.00	0.00	0.00	0.17	0.17	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-13	0.17	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-17	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.16	0.00	0.16	0.00
Cliff 1-control2	2023-09-19	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.16	0.00
Cliff 1-control2	2023-09-20	0.00	0.00	0.00	0.00	0.16	0.00	2.02	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00
Cliff 1-control2	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
Cliff 1-control2	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.00
Cliff 1-control2	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 1-control4	2023-07-17	5.02	0.00	0.00	0.00	1.67	0.42	0.63	0.00	0.00	0.00	0.00
Cliff 1-control4	2023-07-18	2.28	0.00	0.42	0.00	1.87	0.62	4.15	0.21	0.00	0.83	0.00
Cliff 1-control4	2023-07-19	4.52	0.00	0.21	0.00	3.70	2.05	3.49	0.21	0.00	1.03	0.00
Cliff 1-control4	2023-07-20	2.45	0.00	0.00	0.00	1.84	0.61	5.31	0.00	0.00	0.61	0.00
Cliff 1-control4	2023-07-21	0.00	0.00	0.00	0.00	0.40	1.01	14.14	0.00	0.00	0.40	0.00
Cliff 1-control4	2023-07-22	16.66	0.00	0.80	0.40	6.02	0.20	4.01	0.00	0.00	1.00	0.00
Cliff 1-control4	2023-07-23	3.20	0.00	0.20	0.20	2.60	1.00	5.60	0.00	0.00	0.60	0.00
Cliff 1-control4	2023-07-24	4.20	0.00	0.40	0.00	3.80	3.60	12.40	0.00	0.00	1.20	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 1-control4	2023-07-25	0.20	0.00	0.00	0.20	0.60	1.00	3.20	0.00	0.00	0.20	0.00
Cliff 1-control4	2023-07-26	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.00	0.00	0.00	0.00
Cliff 1-control4	2023-07-27	38.40	0.00	4.60	0.20	24.80	0.40	1.20	0.00	0.00	0.40	0.00
Cliff 1-control4	2023-07-28	18.80	0.00	0.20	0.20	9.20	0.20	4.80	0.00	0.00	1.00	0.00
Cliff 1-control4	2023-07-29	9.87	0.00	0.00	0.74	5.92	4.94	12.59	0.00	0.00	0.99	0.00
Cliff 1-control4	2023-07-31	3.02	0.00	0.00	0.75	1.89	3.02	7.55	0.00	0.00	1.89	0.00
Cliff 1-control4	2023-08-01	0.43	0.00	0.00	0.00	1.30	3.04	16.09	0.43	0.00	1.74	0.00
Cliff 1-control4	2023-08-02	0.00	0.00	0.00	1.24	0.62	1.24	6.19	0.00	0.00	0.62	0.00
Cliff 6	2023-07-15	1.70	0.00	0.00	0.00	0.64	0.00	5.74	1.06	0.00	1.70	0.00
Cliff 6	2023-07-16	0.85	0.00	0.00	0.00	1.27	0.00	1.06	0.00	0.00	0.21	0.00
Cliff 6	2023-07-17	0.21	0.00	0.00	0.00	0.63	0.00	0.84	0.00	0.00	0.00	0.00
Cliff 6	2023-07-18	1.66	0.00	0.00	0.00	2.70	0.00	3.11	1.04	0.00	0.83	0.00
Cliff 6	2023-07-19	0.82	0.00	0.00	0.00	0.21	0.00	2.05	0.41	0.00	0.21	0.00
Cliff 6	2023-07-20	1.02	0.00	0.00	0.00	0.82	0.00	1.02	0.00	0.00	0.20	0.00
Cliff 6	2023-07-21	1.41	0.00	0.00	0.00	1.41	0.00	9.49	2.42	0.00	1.21	0.00
Cliff 6	2023-07-22	0.60	0.00	0.00	0.00	0.40	0.00	0.80	0.00	0.00	0.00	0.00
Cliff 6	2023-07-23	0.40	0.00	0.00	0.00	0.40	0.00	1.00	0.00	0.00	0.20	0.00
Cliff 6	2023-07-24	0.40	0.00	1.20	0.20	1.20	0.00	9.60	0.20	0.00	0.60	0.00
Cliff 6	2023-07-25	3.40	0.00	0.00	0.00	1.60	0.00	1.40	0.00	0.00	0.60	0.00
Cliff 6	2023-07-26	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
Cliff 6	2023-07-27	0.80	0.00	0.00	0.00	1.00	0.00	4.40	0.40	0.00	0.60	0.00
Cliff 6	2023-07-28	0.40	0.00	0.00	0.20	0.40	0.00	2.20	0.00	0.00	0.00	0.00
Cliff 6	2023-07-29	0.80	0.00	0.00	0.80	1.60	0.00	26.00	3.80	0.00	5.20	0.00
Cliff 6	2023-07-30	0.80	0.00	0.00	0.40	0.20	0.00	8.40	0.60	0.00	1.00	0.00
Cliff 6	2023-07-31	0.60	0.00	0.00	0.80	0.80	0.00	3.20	0.00	0.00	0.20	0.00
Cliff 6	2023-08-01	0.00	0.00	0.00	0.00	0.80	0.00	23.00	1.20	0.00	5.60	0.00
Cliff 6	2023-08-02	1.60	0.00	0.20	2.00	2.80	0.20	6.80	0.80	0.00	0.40	0.00
Cliff 6	2023-08-03	0.20	0.00	0.20	0.00	0.00	0.00	0.60	0.20	0.00	0.20	0.00
Cliff 6	2023-08-04	1.20	0.00	0.20	0.40	0.20	0.00	5.00	0.20	0.00	0.20	0.00
Cliff 6	2023-08-05	1.00	0.00	0.20	0.40	0.80	0.00	5.20	0.00	0.00	0.40	0.00
Cliff 6	2023-08-06	0.40	0.00	0.00	0.80	0.80	0.00	1.20	0.20	0.00	0.00	0.00
Cliff 6	2023-08-07	0.00	0.00	0.00	0.40	0.00	0.80	2.40	0.00	0.00	0.20	0.00
Cliff 6	2023-08-08	0.60	0.00	0.20	0.00	0.80	0.00	3.00	0.00	0.00	0.80	0.00
Cliff 6	2023-08-09	0.60	0.00	0.00	0.20	0.80	0.00	5.20	0.40	0.00	0.80	0.00
Cliff 6	2023-08-10	0.80	0.00	0.00	0.00	1.20	0.00	5.20	0.20	0.00	0.80	0.00
Cliff 6	2023-08-11	0.00	0.00	0.00	0.20	0.40	0.00	16.00	1.20	0.00	1.00	0.00
Cliff 6	2023-08-12	0.79	0.00	0.00	0.60	0.60	0.00	1.99	0.20	0.00	0.20	0.00
Cliff 6	2023-08-13	0.39	0.00	0.00	0.00	0.20	0.00	0.39	0.00	0.00	0.20	0.00
Cliff 6	2023-08-14	3.29	0.00	0.00	0.19	1.16	0.00	5.23	0.39	0.00	0.39	0.00
Cliff 6	2023-08-15	2.49	0.00	0.00	0.00	0.38	0.00	1.15	0.00	0.00	0.00	0.00
Cliff 6	2023-08-16	1.51	0.00	0.00	0.00	1.70	0.00	0.95	0.00	0.00	0.38	0.00
Cliff 6	2023-08-17	0.00	0.00	0.00	0.19	4.12	0.00	3.00	0.00	0.00	0.00	0.00
Cliff 6	2023-08-18	6.48	0.00	0.93	2.41	6.85	0.00	29.07	1.30	0.19	4.26	0.00
Cliff 6	2023-08-19	0.55	0.00	0.00	0.00	0.91	0.00	0.73	0.00	0.00	0.18	0.00
Cliff 6	2023-08-20	0.18	0.00	0.00	3.99	1.09	0.00	1.27	0.00	0.00	0.00	0.00
Cliff 6	2023-08-21	0.36	0.00	0.00	1.97	1.07	0.00	11.64	0.00	0.00	0.18	0.00
Cliff 6	2023-08-22	2.66	0.00	0.18	0.00	3.55	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-08-23	0.17	0.00	0.00	0.00	0.70	0.00	0.87	0.00	0.00	0.00	0.00
Cliff 6	2023-08-24	0.52	0.00	0.00	0.00	0.35	0.00	2.08	0.00	0.00	0.00	0.00
Cliff 6	2023-08-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-08-26	0.17	0.00	0.00	0.00	0.17	0.00	3.56	0.00	0.00	0.17	0.00
Cliff 6	2023-08-27	0.00	0.00	0.00	0.17	0.50	0.00	1.68	0.00	0.00	0.00	0.00
Cliff 6	2023-08-28	0.00	0.00	0.00	0.00	0.17	0.00	0.33	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 6	2023-08-29	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
Cliff 6	2023-08-30	0.17	0.00	0.00	4.33	0.50	0.00	1.17	0.00	0.00	0.00	0.00
Cliff 6	2023-08-31	0.50	0.00	0.00	0.00	0.33	0.00	1.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-01	0.00	0.00	0.00	0.17	0.33	0.00	0.00	0.00	0.00	0.17	0.00
Cliff 6	2023-09-02	0.00	0.00	0.00	0.00	0.50	0.17	1.00	0.17	0.00	0.00	0.00
Cliff 6	2023-09-03	0.00	0.00	0.00	0.17	0.00	0.00	0.50	0.00	0.00	0.00	0.00
Cliff 6	2023-09-04	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
Cliff 6	2023-09-05	0.33	0.00	0.00	0.33	0.33	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 6	2023-09-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-20	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
Cliff 6	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-07-15	1.49	0.00	0.00	0.00	0.85	0.85	10.00	3.40	0.00	2.55	0.00
Cliff 6-control	2023-07-16	0.63	0.00	0.00	0.00	0.00	0.21	0.63	0.00	0.00	1.06	0.00
Cliff 6-control	2023-07-17	0.21	0.00	0.00	0.00	0.00	0.00	1.05	0.21	0.00	0.00	0.00
Cliff 6-control	2023-07-18	2.28	0.00	0.21	0.00	0.42	0.21	3.32	0.42	0.00	2.49	0.00
Cliff 6-control	2023-07-19	0.62	0.00	0.00	0.00	0.82	0.82	2.47	0.41	0.00	1.03	0.00
Cliff 6-control	2023-07-20	0.82	0.00	0.00	0.00	0.00	0.41	2.24	0.20	0.00	1.22	0.00
Cliff 6-control	2023-07-21	1.41	0.00	0.00	0.00	0.61	1.01	6.87	1.01	0.00	1.82	0.00
Cliff 6-control	2023-07-22	0.00	0.00	0.00	0.00	0.60	0.00	1.61	0.20	0.00	1.20	0.00
Cliff 6-control	2023-07-23	0.20	0.00	0.00	0.00	0.40	0.20	2.20	0.00	0.00	0.40	0.00
Cliff 6-control	2023-07-24	0.60	0.00	0.00	0.00	0.00	0.60	1.40	0.40	0.00	1.40	0.00
Cliff 6-control	2023-07-25	1.40	0.00	0.00	0.00	1.80	0.20	9.60	0.40	0.00	0.60	0.00
Cliff 6-control	2023-07-26	2.60	0.00	0.00	0.00	1.00	1.00	12.80	0.20	0.00	2.00	0.00
Cliff 6-control	2023-07-27	0.00	0.00	0.00	0.00	0.00	0.60	5.00	0.20	0.00	0.80	0.00
Cliff 6-control	2023-07-28	0.60	0.00	0.00	0.00	0.40	0.00	2.00	0.00	0.00	0.20	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 6-control	2023-07-29	0.40	0.00	0.00	1.00	0.80	0.40	8.00	0.20	0.00	2.80	0.00
Cliff 6-control	2023-07-30	0.80	0.00	0.00	0.20	0.80	0.80	3.20	0.20	0.00	0.40	0.00
Cliff 6-control	2023-07-31	0.40	0.00	0.00	0.40	0.40	0.20	2.00	0.00	0.00	0.80	0.00
Cliff 6-control	2023-08-01	0.40	0.00	0.00	0.40	0.20	0.20	3.60	0.60	0.00	1.60	0.00
Cliff 6-control	2023-08-02	1.80	0.00	0.00	3.00	1.80	0.80	5.60	0.20	0.00	0.80	0.00
Cliff 6-control	2023-08-03	0.60	0.00	0.00	0.00	0.00	0.20	2.20	0.00	0.00	0.20	0.00
Cliff 6-control	2023-08-04	1.20	0.00	0.00	0.20	0.60	1.40	5.20	0.00	0.00	0.60	0.00
Cliff 6-control	2023-08-05	0.60	0.00	0.00	0.40	0.80	0.40	1.80	0.20	0.00	1.00	0.00
Cliff 6-control	2023-08-06	0.00	0.00	0.00	0.20	0.20	0.40	1.60	0.00	0.00	0.40	0.00
Cliff 6-control	2023-08-07	0.60	0.00	0.00	0.20	0.60	2.00	4.40	0.00	0.00	3.40	0.00
Cliff 6-control	2023-08-08	0.40	0.00	0.00	0.00	0.40	0.20	1.00	0.00	0.00	0.40	0.00
Cliff 6-control	2023-08-09	0.60	0.00	0.00	0.20	0.20	0.20	1.40	0.00	0.00	0.00	0.00
Cliff 6-control	2023-08-10	1.00	0.00	0.00	0.00	0.40	0.40	3.60	0.00	0.00	2.00	0.00
Cliff 6-control	2023-08-11	0.40	0.00	0.00	0.00	0.60	0.20	20.40	1.00	0.00	3.20	0.00
Cliff 6-control	2023-08-12	0.79	0.00	0.00	0.20	0.60	0.40	4.37	0.00	0.00	0.40	0.00
Cliff 6-control	2023-08-13	0.78	0.00	0.00	0.59	0.59	0.00	2.74	0.00	0.00	0.20	0.00
Cliff 6-control	2023-08-14	2.32	0.00	0.00	0.19	1.35	0.19	4.45	0.19	0.00	0.58	0.00
Cliff 6-control	2023-08-15	0.77	0.00	0.00	0.00	0.19	0.00	3.45	0.00	0.00	0.38	0.00
Cliff 6-control	2023-08-16	0.57	0.00	0.00	0.00	0.19	0.19	1.89	0.00	0.00	0.76	0.00
Cliff 6-control	2023-08-17	0.00	0.00	0.00	0.37	0.00	0.37	1.87	0.00	0.00	0.37	0.00
Cliff 6-control	2023-08-18	2.78	0.00	0.00	0.19	2.78	0.74	7.04	0.19	0.00	1.67	0.00
Cliff 6-control	2023-08-19	0.73	0.00	0.00	0.00	0.73	0.18	0.91	0.18	0.00	0.18	0.00
Cliff 6-control	2023-08-20	0.00	0.00	0.00	0.00	0.00	0.54	3.81	0.00	0.00	0.73	0.00
Cliff 6-control	2023-08-21	0.18	0.00	0.00	0.00	0.18	0.18	4.84	0.00	0.00	0.00	0.00
Cliff 6-control	2023-08-22	0.53	0.00	0.00	0.00	0.36	0.18	0.18	0.00	0.00	0.00	0.00
Cliff 6-control	2023-08-23	0.35	0.00	0.00	0.17	0.00	0.17	0.35	0.00	0.00	0.00	0.00
Cliff 6-control	2023-08-24	0.17	0.00	0.00	0.00	0.17	0.00	0.69	0.00	0.00	0.00	0.00
Cliff 6-control	2023-08-25	0.00	0.00	0.00	0.00	0.00	0.34	1.20	0.00	0.00	0.17	0.00
Cliff 6-control	2023-08-26	0.34	0.00	0.00	0.00	0.17	0.51	8.14	0.00	0.00	2.03	0.00
Cliff 6-control	2023-08-27	0.17	0.00	0.00	0.00	0.50	0.17	2.69	0.17	0.00	0.17	0.00
Cliff 6-control	2023-08-28	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.17	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 6-control	2023-08-29	0.00	0.00	0.00	0.00	0.00	0.17	0.83	0.00	0.00	0.67	0.00
Cliff 6-control	2023-08-30	0.17	0.00	0.00	0.17	0.00	0.17	1.50	0.00	0.00	0.50	0.00
Cliff 6-control	2023-08-31	0.33	0.00	0.00	0.00	0.50	0.00	2.67	0.00	0.00	0.17	0.00
Cliff 6-control	2023-09-01	1.00	0.00	0.00	0.00	0.50	0.67	0.33	0.17	0.00	0.17	0.00
Cliff 6-control	2023-09-02	0.33	0.00	0.00	0.33	0.33	0.17	3.00	0.00	0.00	0.33	0.00
Cliff 6-control	2023-09-03	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	0.00	0.17	0.00
Cliff 6-control	2023-09-04	0.00	0.00	0.00	0.00	0.17	0.00	1.00	0.17	0.00	0.00	0.00
Cliff 6-control	2023-09-05	0.00	0.00	0.00	0.33	0.00	0.17	1.00	0.00	0.00	1.00	0.00
Cliff 6-control	2023-09-06	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-09	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-15	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-19	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.16	0.00
Cliff 6-control	2023-09-20	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 6-control	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
Cliff 6-control2	2023-07-15	3.83	0.00	0.00	0.00	3.83	0.64	13.83	0.43	0.00	3.40	0.00
Cliff 6-control2	2023-07-16	1.69	0.00	0.00	0.00	1.69	0.00	0.42	0.21	0.00	0.42	0.00
Cliff 6-control2	2023-07-17	0.84	0.00	0.00	0.21	0.42	0.00	2.51	0.00	0.00	0.42	0.00
Cliff 6-control2	2023-07-18	1.45	0.00	0.21	0.00	1.04	0.42	6.85	0.21	0.00	0.83	0.00
Cliff 6-control2	2023-07-19	1.03	0.00	0.00	0.00	1.03	0.62	12.74	0.41	0.00	2.26	0.00
Cliff 6-control2	2023-07-20	1.02	0.00	0.00	0.20	0.82	1.02	6.53	0.20	0.00	1.63	0.00
Cliff 6-control2	2023-07-21	1.41	0.00	0.00	0.00	1.21	2.63	15.76	0.61	0.00	2.83	0.00
Cliff 6-control2	2023-07-22	1.40	0.00	0.00	0.00	0.60	1.00	7.02	0.20	0.00	0.60	0.00
Cliff 6-control2	2023-07-23	0.60	0.00	0.00	0.00	0.40	0.60	9.20	0.20	0.00	0.20	0.00
Cliff 6-control2	2023-07-24	0.60	0.00	0.00	0.00	0.40	1.40	13.00	1.80	0.00	1.40	0.00
Cliff 6-control2	2023-07-25	0.20	0.00	0.20	0.00	0.60	0.80	6.80	1.00	0.00	2.00	0.00
Cliff 6-control2	2023-07-26	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.20	0.00
Cliff 6-control2	2023-07-27	3.00	0.00	0.00	0.20	1.80	0.80	7.80	0.20	0.00	0.80	0.00
Cliff 6-control2	2023-07-28	1.40	0.00	0.00	0.40	0.60	0.80	15.00	0.00	0.00	1.60	0.00
Cliff 6-control2	2023-07-29	2.20	0.00	0.00	4.60	7.40	1.60	18.40	0.80	0.00	1.40	0.00
Cliff 6-control2	2023-07-30	0.20	0.00	0.00	0.40	0.40	2.40	11.20	0.20	0.00	2.40	0.00
Cliff 6-control2	2023-07-31	0.20	0.00	0.00	0.20	0.20	0.60	14.00	0.20	0.00	0.20	0.00
Cliff 6-control2	2023-08-01	0.40	0.00	0.00	0.20	0.20	2.00	8.80	0.00	0.00	1.20	0.00
Cliff 6-control2	2023-08-02	0.80	0.00	0.00	0.40	0.60	3.60	14.60	0.40	0.00	1.20	0.00
Cliff 6-control2	2023-08-03	0.20	0.00	0.00	0.00	0.00	1.60	8.60	0.00	0.00	0.20	0.00
Cliff 6-control2	2023-08-04	0.40	0.00	0.00	0.20	0.20	0.60	14.40	0.40	0.00	2.60	0.00
Cliff 6-control2	2023-08-05	0.40	0.00	0.00	0.20	1.00	2.80	8.80	0.20	0.00	1.20	0.00
Cliff 6-control2	2023-08-06	1.00	0.00	0.00	0.20	0.60	2.20	7.40	0.20	0.00	1.20	0.00
Cliff 6-control2	2023-08-07	0.00	0.00	0.00	0.40	0.20	1.00	25.80	0.20	0.00	1.20	0.00
Cliff 6-control2	2023-08-08	1.60	0.00	0.00	0.00	1.40	1.00	7.80	0.00	0.00	0.40	0.00
Cliff 6-control2	2023-08-09	0.60	0.00	0.00	0.20	0.20	0.40	2.20	0.00	0.00	0.20	0.00
Cliff 6-control2	2023-08-10	0.00	0.00	0.00	0.00	0.60	1.00	17.80	0.20	0.00	2.40	0.00
Cliff 6-control2	2023-08-11	0.00	0.00	0.00	0.20	0.00	0.40	5.60	0.00	0.00	0.80	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 6-control2	2023-08-12	0.20	0.00	0.00	0.40	0.40	0.00	5.76	0.20	0.00	0.99	0.00
Cliff 6-control2	2023-08-13	0.20	0.00	0.00	0.00	0.00	1.57	4.71	0.00	0.00	0.39	0.00
Cliff 6-control2	2023-08-14	0.97	0.00	0.00	0.00	0.39	0.19	24.19	0.19	0.00	1.35	0.00
Cliff 6-control2	2023-08-15	0.38	0.00	0.00	0.38	0.38	1.53	14.19	0.00	0.00	1.73	0.00
Cliff 6-control2	2023-08-16	1.89	0.00	0.19	0.00	0.95	0.19	0.76	0.38	0.00	0.00	0.00
Cliff 6-control2	2023-08-17	0.19	0.00	0.00	0.00	0.56	0.37	3.94	0.00	0.00	0.75	0.00
Cliff 6-control2	2023-08-18	0.37	0.00	0.00	0.00	0.56	1.11	20.37	0.00	0.00	0.93	0.00
Cliff 6-control2	2023-08-19	2.38	0.00	0.00	0.00	1.46	0.73	4.39	0.18	0.00	1.46	0.00
Cliff 6-control2	2023-08-20	0.36	0.00	0.00	0.00	0.00	0.00	5.08	0.00	0.00	0.73	0.00
Cliff 6-control2	2023-08-21	0.36	0.00	0.00	0.00	0.18	0.54	2.69	0.00	0.00	0.18	0.00
Cliff 6-control2	2023-08-22	0.18	0.00	0.00	0.00	0.89	0.53	13.14	0.18	0.00	1.78	0.00
Cliff 6-control2	2023-08-23	0.00	0.00	0.00	0.00	0.00	0.70	1.40	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-08-24	0.00	0.00	0.00	0.00	0.35	0.17	4.86	0.00	0.00	0.17	0.00
Cliff 6-control2	2023-08-25	0.17	0.00	0.00	0.00	0.00	0.34	3.43	0.00	0.00	0.51	0.00
Cliff 6-control2	2023-08-26	0.51	0.00	0.00	0.00	0.17	0.00	1.53	0.17	0.00	0.51	0.00
Cliff 6-control2	2023-08-27	0.17	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.17	0.00
Cliff 6-control2	2023-08-28	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.17	0.00	0.17	0.00
Cliff 6-control2	2023-08-29	0.17	0.00	0.00	0.00	0.00	0.17	2.00	0.00	0.00	0.33	0.00
Cliff 6-control2	2023-08-30	0.00	0.00	0.00	0.00	0.00	0.17	0.83	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-08-31	0.00	0.00	0.00	0.00	0.00	0.67	2.17	0.00	0.00	0.50	0.00
Cliff 6-control2	2023-09-01	0.17	0.00	0.00	0.00	0.17	0.00	0.67	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-02	0.50	0.00	0.00	0.00	0.00	0.17	2.33	0.17	0.00	1.83	0.00
Cliff 6-control2	2023-09-03	0.00	0.00	0.00	0.00	0.33	0.17	7.83	0.00	0.00	1.17	0.00
Cliff 6-control2	2023-09-04	0.00	0.00	0.00	0.00	0.17	0.00	2.17	0.00	0.00	0.33	0.00
Cliff 6-control2	2023-09-05	0.67	0.00	0.00	0.00	0.17	0.17	6.00	0.17	0.00	0.67	0.00
Cliff 6-control2	2023-09-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-07	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-09	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.50	0.00
Cliff 6-control2	2023-09-10	0.00	0.00	0.00	0.00	0.00	0.83	0.67	0.00	0.00	1.00	0.00
Cliff 6-control2	2023-09-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
Cliff 6-control2	2023-09-12	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-14	0.16	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.16	0.32	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-19	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-20	0.00	0.00	0.00	0.00	0.00	0.16	0.31	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.29	0.00
Cliff 6-control2	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliff 6-control2	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00
Cliff 6-control2	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2023-07-15	1.28	0.00	0.21	0.00	2.13	0.21	0.21	0.21	0.00	0.43	0.00
M3-1	2023-07-16	1.69	0.00	0.00	0.00	2.32	0.63	0.42	0.00	0.00	1.48	0.00
M3-1	2023-07-17	2.09	0.00	0.00	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2023-07-18	0.21	0.00	0.42	0.00	5.61	0.42	2.70	0.00	0.00	1.25	0.00
M3-1	2023-07-19	4.11	0.00	0.21	0.00	9.66	0.21	1.64	0.41	0.00	0.41	0.00
M3-1	2023-07-20	1.22	0.20	1.22	0.00	9.18	1.63	4.69	0.61	0.00	1.02	0.00
M3-1	2023-07-21	1.21	0.00	0.00	0.00	2.83	0.81	4.04	0.00	0.00	1.41	0.00
M3-1	2023-07-22	1.00	0.00	0.20	0.00	2.21	0.20	1.00	0.00	0.00	1.00	0.00
M3-1	2023-07-23	0.40	0.00	0.40	0.00	0.40	0.20	0.20	0.00	0.00	0.20	0.00
M3-1	2023-07-24	1.80	0.00	0.00	0.20	8.60	0.20	4.40	0.00	0.00	0.40	0.00
M3-1	2023-07-25	2.20	0.00	0.00	0.20	10.20	0.40	1.40	0.00	0.00	0.80	0.00
M3-1	2023-07-26	2.00	0.00	0.00	0.00	6.20	0.40	0.80	0.20	0.00	0.80	0.00
M3-1	2023-07-27	0.80	0.00	0.20	0.00	2.20	0.40	3.00	0.00	0.00	0.20	0.00
M3-1	2023-07-28	0.40	0.00	0.00	0.00	1.80	0.60	0.80	0.00	0.00	0.40	0.00
M3-1	2023-07-29	0.60	0.00	0.80	0.20	4.60	0.40	3.00	0.00	0.00	0.60	0.00
M3-1	2023-07-30	1.40	0.00	0.00	0.00	5.20	0.80	4.20	0.00	0.00	1.20	0.00
M3-1	2023-07-31	1.00	0.00	1.00	0.00	7.40	0.40	2.20	0.00	0.00	0.40	0.00
M3-1	2023-08-01	1.60	0.00	0.00	0.00	5.00	1.00	5.00	0.00	0.00	1.40	0.00
M3-1	2023-08-02	0.80	0.00	0.20	0.00	1.20	0.40	2.60	0.00	0.00	0.40	0.00
M3-1	2023-08-03	1.60	0.00	0.00	0.20	6.60	0.20	3.40	0.00	0.00	1.00	0.00
M3-1	2023-08-04	1.20	0.00	0.20	0.40	4.20	0.60	9.60	1.20	0.00	2.20	0.00
M3-1	2023-08-05	1.20	0.00	0.80	0.60	7.80	1.80	2.00	0.00	0.00	0.80	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M3-1	2023-08-06	3.00	0.00	0.40	0.00	9.00	1.80	3.40	0.00	0.00	1.00	0.00
M3-1	2023-08-07	1.00	0.00	0.00	0.00	3.60	0.00	2.80	0.20	0.00	0.40	0.00
M3-1	2023-08-08	2.00	0.00	0.20	0.00	4.20	0.40	0.60	0.00	0.00	1.00	0.00
M3-1	2023-08-09	2.60	0.00	0.00	0.00	15.40	0.40	0.60	0.00	0.00	0.00	0.00
M3-1	2023-08-10	1.00	0.00	0.00	0.00	7.00	2.20	6.00	0.00	0.00	3.40	0.00
M3-1	2023-08-11	1.00	0.00	0.40	0.20	3.00	0.80	8.40	0.00	0.00	3.20	0.00
M3-1	2023-08-12	1.79	0.00	0.60	0.40	6.36	1.19	1.59	0.00	0.00	0.40	0.00
M3-1	2023-08-13	0.98	0.00	0.00	0.20	2.94	2.16	0.78	0.39	0.00	2.94	0.00
M3-1	2023-08-14	4.65	0.00	0.19	0.00	21.10	0.39	3.87	0.00	0.00	2.32	0.00
M3-1	2023-08-15	0.58	0.00	0.00	0.00	8.43	1.34	5.75	0.19	0.00	2.30	0.00
M3-1	2023-08-16	3.60	0.00	0.57	0.00	8.33	0.00	1.51	0.00	0.00	0.00	0.00
M3-1	2023-08-17	0.56	0.00	0.00	0.00	1.12	1.31	1.69	0.00	0.00	1.87	0.00
M3-1	2023-08-18	0.93	0.00	0.00	0.00	2.96	0.37	0.93	0.00	0.00	0.37	0.00
M3-1	2023-08-19	1.28	0.00	0.00	0.00	3.48	2.19	6.40	0.18	0.00	2.74	0.00
M3-1	2023-08-20	0.18	0.00	0.36	0.00	6.34	2.54	2.18	0.00	0.00	1.27	0.00
M3-1	2023-08-21	0.36	0.00	0.00	0.00	1.61	0.00	0.90	0.00	0.00	0.36	0.00
M3-1	2023-08-22	0.71	0.00	0.00	0.00	11.18	0.53	6.39	0.00	0.00	0.71	0.00
M3-1	2023-08-23	1.57	0.00	0.35	0.35	4.37	0.35	1.05	0.00	0.00	0.00	0.00
M3-1	2023-08-24	0.52	0.00	0.52	0.00	7.11	1.04	0.69	0.00	0.00	2.08	0.00
M3-1	2023-08-25	0.34	0.00	0.00	0.00	2.57	1.37	0.69	0.00	0.00	1.71	0.00
M3-1	2023-08-26	0.17	0.00	0.00	0.00	1.36	0.34	0.51	0.00	0.00	0.68	0.00
M3-1	2023-08-27	0.67	0.00	0.17	0.00	5.04	0.17	3.19	0.00	0.00	1.01	0.00
M3-1	2023-08-28	1.17	0.00	0.00	0.00	3.00	0.50	0.00	0.00	0.00	0.17	0.00
M3-1	2023-08-29	0.33	0.00	0.17	0.00	1.50	0.00	0.83	0.00	0.00	0.00	0.00
M3-1	2023-08-30	0.33	0.00	0.00	0.00	1.33	0.33	1.67	0.17	0.00	0.17	0.00
M3-1	2023-08-31	1.33	0.00	0.00	0.00	5.00	0.00	0.83	0.00	0.00	0.17	0.00
M3-1	2023-09-01	0.67	0.00	0.00	0.00	2.33	0.17	1.17	0.00	0.00	1.17	0.00
M3-1	2023-09-02	0.83	0.00	0.17	0.00	0.67	0.83	2.00	0.00	0.00	1.00	0.00
M3-1	2023-09-03	0.67	0.00	0.00	0.33	2.17	0.00	3.00	0.00	0.00	0.83	0.00
M3-1	2023-09-04	1.17	0.00	0.00	0.17	4.33	0.67	1.83	0.00	0.00	1.00	0.00
M3-1	2023-09-05	1.00	0.00	0.33	0.17	8.83	0.67	1.67	0.00	0.00	0.50	0.00
M3-1	2023-09-06	0.00	0.00	0.00	0.00	0.17	0.33	0.83	0.00	0.00	0.33	0.00
M3-1	2023-09-07	0.33	0.00	0.00	0.00	2.17	1.17	0.67	0.17	0.00	1.33	0.00
M3-1	2023-09-08	0.00	0.00	0.00	0.00	0.33	0.83	0.00	0.00	0.00	1.67	0.00
M3-1	2023-09-09	0.17	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00	0.00	0.00
M3-1	2023-09-10	0.00	0.00	0.00	0.00	0.50	1.17	0.33	0.00	0.00	1.00	0.00
M3-1	2023-09-11	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.33	0.00
M3-1	2023-09-12	0.33	0.00	0.00	0.00	0.33	0.17	0.00	0.00	0.00	0.83	0.00
M3-1	2023-09-13	0.83	0.00	0.00	0.00	2.50	0.00	0.17	0.00	0.00	0.17	0.00
M3-1	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.16	0.00
M3-1	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
M3-1	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.16	0.00
M3-1	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.32	0.16	0.00	0.00	0.80	0.00
M3-1	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.16	2.05	0.16	0.00	1.11	0.00
M3-1	2023-09-19	0.31	0.00	0.00	0.00	1.72	0.31	0.31	0.00	0.00	0.78	0.00
M3-1	2023-09-20	0.00	0.00	0.00	0.00	0.00	0.35	0.17	0.00	0.00	0.00	0.00
M3-1	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2023-07-15	0.00	0.00	0.21	0.00	1.70	0.00	0.21	0.00	0.00	0.21	0.00
M3-2	2023-07-16	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.00	0.00	0.21	0.00
M3-2	2023-07-17	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.63	0.00
M3-2	2023-07-18	0.42	0.00	0.00	0.00	0.42	0.83	1.25	0.00	0.00	3.32	0.00
M3-2	2023-07-19	0.41	0.00	0.00	0.00	1.03	0.21	0.41	0.00	0.00	0.82	0.00
M3-2	2023-07-20	0.00	0.00	0.00	0.00	1.63	0.82	3.27	0.00	0.00	2.04	0.00
M3-2	2023-07-21	0.00	0.00	0.00	0.00	1.01	0.61	2.42	0.00	0.00	0.61	0.00
M3-2	2023-07-22	0.40	0.00	0.00	0.00	1.00	1.00	0.60	0.00	0.00	2.01	0.00
M3-2	2023-07-23	0.40	0.00	0.00	0.00	0.20	0.40	0.60	0.00	0.00	0.00	0.00
M3-2	2023-07-24	0.00	0.00	0.20	0.00	0.20	0.40	4.80	0.00	0.00	0.20	0.00
M3-2	2023-07-25	0.00	0.00	0.00	0.20	1.80	0.40	1.80	0.00	0.00	1.60	0.00
M3-2	2023-07-26	0.00	0.00	0.00	0.00	1.00	0.00	2.60	0.00	0.00	0.60	0.00
M3-2	2023-07-27	0.20	0.00	0.00	0.00	0.40	0.60	1.00	0.00	0.00	0.80	0.00
M3-2	2023-07-28	0.20	0.00	0.00	0.00	0.40	0.40	0.40	0.00	0.00	1.20	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M3-2	2023-07-29	0.20	0.00	0.00	0.00	1.60	1.00	2.80	0.00	0.00	1.00	0.00
M3-2	2023-07-30	0.20	0.00	0.00	0.00	2.00	0.80	3.20	0.00	0.00	1.80	0.00
M3-2	2023-07-31	0.00	0.00	0.00	0.00	0.40	0.20	3.20	0.00	0.00	0.80	0.00
M3-2	2023-08-01	0.60	0.00	0.00	0.00	1.00	0.80	5.00	0.00	0.00	2.20	0.00
M3-2	2023-08-02	0.40	0.00	0.00	0.00	0.40	1.20	4.20	0.00	0.00	2.40	0.00
M3-2	2023-08-03	0.00	0.00	0.00	0.00	5.20	2.00	4.80	0.20	0.00	1.60	0.00
M3-2	2023-08-04	0.00	0.00	0.00	0.20	2.20	0.60	10.40	0.00	0.00	0.80	0.00
M3-2	2023-08-05	0.20	0.00	0.20	0.00	14.40	0.80	2.80	0.00	0.00	2.00	0.00
M3-2	2023-08-06	0.40	0.00	0.40	0.00	15.20	0.20	3.00	0.00	0.00	2.20	0.00
M3-2	2023-08-07	0.20	0.00	0.00	0.20	3.00	0.40	1.80	0.00	0.00	1.60	0.00
M3-2	2023-08-08	0.00	0.00	0.00	0.00	2.60	0.80	1.00	0.00	0.00	0.60	0.00
M3-2	2023-08-09	0.40	0.00	0.00	0.00	1.00	0.00	1.40	0.00	0.00	0.00	0.00
M3-2	2023-08-10	0.00	0.00	0.20	0.00	3.00	0.60	3.40	0.20	0.00	1.80	0.00
M3-2	2023-08-11	0.20	0.00	0.00	0.00	2.60	2.20	5.60	0.00	0.00	5.00	0.00
M3-2	2023-08-12	0.20	0.00	0.00	0.00	2.98	0.99	2.19	0.00	0.00	1.59	0.00
M3-2	2023-08-13	0.20	0.00	0.00	0.00	1.76	0.59	1.76	0.00	0.00	0.98	0.00
M3-2	2023-08-14	0.39	0.00	0.39	0.00	4.06	1.16	2.32	0.19	0.00	0.77	0.00
M3-2	2023-08-15	0.58	0.00	0.00	0.19	4.79	0.58	4.60	0.00	0.00	1.53	0.00
M3-2	2023-08-16	0.00	0.00	0.00	0.00	0.95	0.00	0.38	0.00	0.00	0.19	0.00
M3-2	2023-08-17	0.37	0.00	0.00	0.00	0.19	2.62	0.56	0.00	0.00	3.56	0.00
M3-2	2023-08-18	0.00	0.00	0.00	0.00	7.96	0.74	0.74	0.00	0.00	0.93	0.00
M3-2	2023-08-19	1.10	0.00	0.00	0.00	3.66	1.83	2.01	0.00	0.00	1.83	0.00
M3-2	2023-08-20	0.36	0.00	0.00	0.00	2.18	0.73	1.45	0.18	0.00	1.45	0.00
M3-2	2023-08-21	0.36	0.00	0.00	0.00	0.90	1.43	0.72	0.00	0.00	2.51	0.00
M3-2	2023-08-22	0.00	0.00	0.00	0.00	0.53	0.18	6.92	0.18	0.00	0.89	0.00
M3-2	2023-08-23	0.17	0.00	0.00	0.00	4.72	0.35	0.52	0.00	0.00	1.57	0.00
M3-2	2023-08-24	0.35	0.00	0.17	0.00	3.99	0.69	1.04	0.00	0.00	0.87	0.00
M3-2	2023-08-25	0.00	0.00	0.00	0.00	0.51	0.17	0.86	0.00	0.00	0.51	0.00
M3-2	2023-08-26	0.00	0.00	0.00	0.00	0.51	0.51	0.68	0.00	0.00	0.51	0.00
M3-2	2023-08-27	0.34	0.00	0.00	0.00	4.20	0.50	2.02	0.00	0.00	1.01	0.00
M3-2	2023-08-28	0.00	0.00	0.00	0.00	2.83	0.00	0.17	0.00	0.00	0.50	0.00
M3-2	2023-08-29	0.00	0.00	0.00	0.00	0.33	1.83	0.33	0.00	0.00	0.33	0.00
M3-2	2023-08-30	0.00	0.00	0.00	0.00	0.83	0.17	0.67	0.17	0.00	0.67	0.00
M3-2	2023-08-31	0.83	0.00	0.00	0.00	4.67	0.00	0.83	0.00	0.00	0.50	0.00
M3-2	2023-09-01	0.00	0.00	0.00	0.00	2.51	0.34	1.51	0.00	0.00	0.17	0.00
M3-2	2023-09-02	0.00	0.00	0.00	0.00	1.17	2.00	0.67	0.00	0.00	1.33	0.00
M3-2	2023-09-03	0.00	0.00	0.00	0.00	0.50	0.33	1.17	0.00	0.00	1.00	0.00
M3-2	2023-09-04	0.00	0.00	0.00	0.00	0.50	0.33	1.83	0.00	0.00	0.83	0.00
M3-2	2023-09-05	0.33	0.00	0.00	0.00	0.67	0.17	0.17	0.00	0.00	0.33	0.00
M3-2	2023-09-06	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.33	0.00
M3-2	2023-09-07	0.00	0.00	0.00	0.00	0.17	0.67	0.33	0.00	0.00	1.83	0.00
M3-2	2023-09-08	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.50	0.00
M3-2	2023-09-09	0.00	0.00	0.00	0.00	0.17	1.17	0.00	0.00	0.00	0.83	0.00
M3-2	2023-09-10	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.33	0.00
M3-2	2023-09-11	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.67	0.00
M3-2	2023-09-12	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.50	0.00
M3-2	2023-09-13	0.00	0.00	0.00	0.00	0.17	0.83	0.17	0.00	0.00	1.00	0.00
M3-2	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.33	0.00
M3-2	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	1.13	0.00
M3-2	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	1.44	0.00
M3-2	2023-09-18	0.00	0.00	0.00	0.00	0.00	2.05	0.63	0.00	0.00	1.26	0.00
M3-2	2023-09-19	0.00	0.00	0.00	0.00	0.16	0.16	0.47	0.00	0.00	0.31	0.00
M3-2	2023-09-20	0.00	0.00	0.00	0.00	0.00	1.55	0.31	0.00	0.00	2.64	0.00
M3-2	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-2	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.30	0.30	0.00	0.00	0.61	0.00
M3-2	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.15	0.00
M3-2	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00
M3-2	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.64	0.16	0.00	0.00	0.16	0.00
M3-2	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.51	0.17	0.00	0.00	0.68	0.00
M3-2	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M3-2	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00
M5-1	2023-07-15	0.43	0.00	0.64	0.00	4.47	0.64	0.00	0.00	0.00	0.85	0.00
M5-1	2023-07-16	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-07-17	0.42	0.00	0.00	0.00	1.88	0.00	0.21	0.00	0.00	0.21	0.00
M5-1	2023-07-18	0.62	0.00	0.00	0.00	2.49	0.21	0.83	0.21	0.00	0.62	0.00
M5-1	2023-07-19	0.00	0.00	0.00	0.00	0.82	0.21	1.44	0.00	0.00	1.44	0.00
M5-1	2023-07-20	0.20	0.00	0.00	0.00	0.82	0.41	2.86	0.00	0.00	0.61	0.00
M5-1	2023-07-21	3.64	0.00	0.20	0.00	16.16	0.20	2.42	0.00	0.00	1.82	0.00
M5-1	2023-07-22	0.40	0.00	0.20	0.00	1.20	0.00	0.60	0.00	0.00	0.20	0.00
M5-1	2023-07-23	0.00	0.00	0.00	0.00	1.00	0.40	1.00	0.00	0.00	0.00	0.00
M5-1	2023-07-24	0.20	0.00	0.00	0.00	2.00	0.60	2.80	0.00	0.00	1.20	0.00
M5-1	2023-07-25	0.80	0.00	0.00	0.00	4.40	0.20	2.00	0.00	0.00	0.40	0.00
M5-1	2023-07-26	1.00	0.00	0.60	0.00	2.60	0.20	0.60	0.00	0.00	0.40	0.00
M5-1	2023-07-27	0.00	0.00	0.00	0.00	2.80	0.40	1.20	0.00	0.00	0.40	0.00
M5-1	2023-07-28	0.00	0.00	0.00	0.00	1.60	0.40	0.80	0.00	0.00	0.20	0.00
M5-1	2023-07-29	1.00	0.00	0.00	0.00	3.40	0.60	1.60	0.20	0.00	1.40	0.00
M5-1	2023-07-30	0.60	0.00	0.20	0.00	5.40	0.00	1.20	0.00	0.00	1.20	0.00
M5-1	2023-07-31	1.40	0.00	0.00	0.00	4.20	0.00	1.40	0.00	0.00	0.20	0.00
M5-1	2023-08-01	0.60	0.00	0.00	0.00	2.40	0.60	3.60	0.00	0.00	0.80	0.00
M5-1	2023-08-02	1.00	0.00	0.40	0.00	6.80	0.40	2.80	0.00	0.00	1.20	0.00
M5-1	2023-08-03	0.40	0.00	0.00	0.00	1.40	0.20	2.00	0.00	0.00	1.20	0.00
M5-1	2023-08-04	0.60	0.00	0.40	0.00	1.80	0.40	3.60	0.20	0.00	2.40	0.00
M5-1	2023-08-05	0.20	0.00	0.20	0.00	1.80	0.60	0.80	0.00	0.00	1.20	0.00
M5-1	2023-08-06	0.20	0.00	0.00	0.00	2.80	1.00	2.00	0.00	0.00	1.40	0.00
M5-1	2023-08-07	0.20	0.00	0.00	0.00	1.80	0.60	2.20	0.00	0.00	0.60	0.00
M5-1	2023-08-08	0.40	0.00	0.00	0.00	2.20	0.00	0.80	0.00	0.00	0.60	0.00
M5-1	2023-08-09	0.40	0.00	0.00	0.00	2.20	0.40	0.20	0.00	0.00	0.00	0.00
M5-1	2023-08-10	0.80	0.00	0.20	0.00	4.40	0.00	2.00	0.20	0.00	0.80	0.00
M5-1	2023-08-11	0.20	0.00	0.60	0.00	3.40	1.00	3.00	0.00	0.00	1.20	0.00
M5-1	2023-08-12	0.20	0.00	0.00	0.00	1.39	0.00	0.79	0.00	0.00	0.60	0.00
M5-1	2023-08-13	0.00	0.00	0.00	0.00	0.59	0.20	0.78	0.00	0.00	0.59	0.00
M5-1	2023-08-14	0.00	0.00	0.00	0.00	0.58	0.19	0.97	0.00	0.00	0.58	0.00
M5-1	2023-08-15	0.00	0.00	0.00	0.00	0.19	0.58	0.96	0.00	0.00	0.96	0.00
M5-1	2023-08-16	0.38	0.00	0.00	0.00	3.60	0.00	0.19	0.00	0.00	0.00	0.00
M5-1	2023-08-17	0.00	0.00	0.00	0.00	0.37	0.56	1.50	0.00	0.00	0.94	0.00
M5-1	2023-08-18	1.48	0.00	0.00	0.00	1.67	0.00	0.37	0.00	0.00	0.00	0.00
M5-1	2023-08-19	0.00	0.00	0.00	0.00	0.00	0.55	1.46	0.00	0.00	1.83	0.00
M5-1	2023-08-20	0.00	0.00	0.00	0.00	0.36	0.00	1.27	0.00	0.00	0.91	0.00
M5-1	2023-08-21	0.00	0.00	0.00	0.00	0.18	0.36	0.90	0.00	0.00	0.36	0.00
M5-1	2023-08-22	0.18	0.00	0.00	0.00	0.35	0.71	3.37	0.00	0.00	0.71	0.00
M5-1	2023-08-23	0.35	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00	0.70	0.00
M5-1	2023-08-24	0.17	0.00	0.00	0.00	0.17	0.00	0.69	0.00	0.00	0.00	0.00
M5-1	2023-08-25	0.00	0.00	0.00	0.00	0.86	0.00	0.69	0.00	0.00	0.34	0.00
M5-1	2023-08-26	0.34	0.00	0.00	0.00	0.34	0.34	0.00	0.00	0.00	0.85	0.00
M5-1	2023-08-27	0.84	0.00	0.00	0.00	3.36	0.17	0.84	0.00	0.00	0.17	0.00
M5-1	2023-08-28	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-08-29	0.00	0.00	0.00	0.00	1.00	0.33	0.83	0.00	0.00	0.00	0.00
M5-1	2023-08-30	0.17	0.00	0.00	0.00	1.00	0.17	0.67	0.00	0.00	1.33	0.00
M5-1	2023-08-31	0.33	0.00	0.00	0.00	1.67	0.17	1.00	0.00	0.00	0.67	0.00
M5-1	2023-09-01	0.00	0.00	0.00	0.00	0.50	0.83	1.00	0.00	0.00	1.33	0.00
M5-1	2023-09-02	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
M5-1	2023-09-03	0.00	0.00	0.00	0.00	0.67	0.17	0.50	0.00	0.00	0.67	0.00
M5-1	2023-09-04	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.67	0.00
M5-1	2023-09-05	0.00	0.00	0.00	0.00	0.17	0.00	0.17	0.00	0.00	0.00	0.00
M5-1	2023-09-06	0.17	0.00	0.00	0.00	0.17	0.33	0.17	0.00	0.00	0.17	0.00
M5-1	2023-09-07	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-09-08	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.83	0.00
M5-1	2023-09-09	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00
M5-1	2023-09-10	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.17	0.00
M5-1	2023-09-11	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-09-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M5-1	2023-09-13	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.48	0.00
M5-1	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00
M5-1	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-09-19	0.00	0.00	0.00	0.00	0.00	0.16	0.47	0.00	0.00	0.78	0.00
M5-1	2023-09-20	0.00	0.00	0.00	0.00	0.00	0.31	0.16	0.00	0.00	0.93	0.00
M5-1	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.46	0.00
M5-1	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	1.95	0.00
M5-1	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.30	0.00
M5-1	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00
M5-1	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.44	0.00
M5-1	2023-09-27	0.00	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	1.30	0.00
M5-1	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M5-1	2023-10-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2023-07-15	1.06	0.00	0.00	0.00	6.81	0.21	0.43	0.00	0.00	0.64	0.00
M6-1	2023-07-16	0.84	0.00	0.00	0.00	4.44	0.00	0.21	0.00	0.00	0.00	0.00
M6-1	2023-07-17	1.88	0.00	0.00	0.00	6.69	0.21	1.05	0.00	0.00	0.21	0.00
M6-1	2023-07-18	1.66	0.00	0.00	0.00	2.91	0.42	1.25	0.00	0.00	0.83	0.00
M6-1	2023-07-19	1.64	0.00	0.00	0.00	9.66	0.82	2.67	0.41	0.00	1.44	0.00
M6-1	2023-07-20	0.20	0.00	0.00	0.00	6.94	0.20	1.43	0.00	0.00	1.63	0.00
M6-1	2023-07-21	7.68	0.00	0.40	0.00	28.48	1.01	3.84	0.61	0.00	2.22	0.00
M6-1	2023-07-22	2.81	0.00	0.40	0.00	8.23	0.40	1.00	0.00	0.00	1.00	0.00
M6-1	2023-07-23	1.00	0.00	0.00	0.00	2.20	0.00	2.20	0.00	0.00	0.40	0.00
M6-1	2023-07-24	1.40	0.00	0.80	0.00	6.40	0.00	3.00	0.00	0.20	2.00	0.00
M6-1	2023-07-25	1.00	0.00	0.40	0.00	7.40	0.00	1.60	0.00	0.00	1.60	0.00
M6-1	2023-07-26	1.00	0.00	0.60	0.00	4.80	0.20	1.40	0.00	0.00	1.60	0.00
M6-1	2023-07-27	1.60	0.00	0.80	0.00	5.20	0.20	1.00	0.00	0.00	0.80	0.00
M6-1	2023-07-28	0.40	0.00	0.20	0.00	1.60	0.20	1.00	0.20	0.00	0.20	0.00
M6-1	2023-07-29	3.00	0.00	0.40	0.00	7.20	0.80	4.80	0.20	0.00	3.20	0.00
M6-1	2023-07-30	2.40	0.00	1.60	0.00	10.40	0.00	1.80	0.00	0.00	1.20	0.00
M6-1	2023-07-31	1.80	0.00	0.00	0.00	4.40	0.00	3.00	0.00	0.00	1.40	0.00
M6-1	2023-08-01	1.80	0.00	0.00	0.00	5.20	0.60	3.80	0.00	0.00	1.60	0.00
M6-1	2023-08-02	2.40	0.00	0.00	0.00	6.40	0.40	4.00	0.20	0.00	2.80	0.00
M6-1	2023-08-03	1.40	0.00	0.00	0.00	7.80	0.40	2.20	0.20	0.00	1.40	0.00
M6-1	2023-08-04	0.40	0.00	0.00	0.00	3.00	0.40	6.00	0.00	0.00	2.60	0.00
M6-1	2023-08-05	1.80	0.00	0.00	0.00	5.40	1.20	3.40	0.00	0.00	2.00	0.00
M6-1	2023-08-06	1.80	0.00	0.00	0.00	6.40	2.20	5.00	0.00	0.00	3.40	0.00
M6-1	2023-08-07	1.40	0.00	0.00	0.00	3.80	0.80	3.00	0.00	0.00	1.00	0.00
M6-1	2023-08-08	2.00	0.00	1.00	0.00	10.00	0.60	1.20	0.00	0.00	1.20	0.00
M6-1	2023-08-09	1.60	0.00	0.80	0.00	9.60	0.00	1.00	0.20	0.00	1.20	0.00
M6-1	2023-08-10	0.20	0.00	0.20	0.00	3.60	0.80	1.40	0.00	0.00	2.40	0.00
M6-1	2023-08-11	0.80	0.00	0.00	0.00	2.80	1.80	3.80	0.20	0.00	5.60	0.00
M6-1	2023-08-12	0.79	0.00	0.20	0.00	1.99	0.79	1.39	0.00	0.00	0.20	0.00
M6-1	2023-08-13	0.78	0.00	0.00	0.00	2.55	0.39	1.37	0.00	0.00	1.96	0.00
M6-1	2023-08-14	0.39	0.00	0.00	0.00	0.58	0.19	1.35	0.00	0.00	0.39	0.00
M6-1	2023-08-15	0.00	0.00	0.00	0.00	0.00	1.34	1.73	0.00	0.00	2.49	0.00
M6-1	2023-08-16	0.19	0.00	0.00	0.00	1.70	0.57	0.19	0.00	0.00	0.76	0.00
M6-1	2023-08-17	0.56	0.00	0.00	0.00	1.50	0.19	1.69	0.00	0.00	2.25	0.00
M6-1	2023-08-18	0.19	0.00	0.00	0.00	0.19	0.19	0.37	0.00	0.00	0.19	0.00
M6-1	2023-08-19	0.00	0.00	0.18	0.00	0.91	0.55	1.28	0.00	0.00	2.01	0.00
M6-1	2023-08-20	0.18	0.00	0.00	0.00	1.27	0.00	1.99	0.00	0.00	0.54	0.00
M6-1	2023-08-21	0.00	0.00	0.00	0.00	1.07	0.36	0.90	0.00	0.00	0.54	0.00
M6-1	2023-08-22	0.00	0.00	0.00	0.00	0.36	0.36	3.20	0.00	0.00	2.31	0.00
M6-1	2023-08-23	0.17	0.00	0.17	0.00	1.22	0.00	0.17	0.00	0.00	0.17	0.00
M6-1	2023-08-24	0.00	0.00	0.00	0.00	1.39	0.35	0.69	0.00	0.00	1.39	0.00
M6-1	2023-08-25	0.00	0.00	0.00	0.00	1.03	0.17	0.69	0.00	0.00	0.51	0.00
M6-1	2023-08-26	1.86	0.00	0.17	0.00	3.56	0.00	0.51	0.00	0.00	0.51	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M6-1	2023-08-27	1.85	0.00	0.50	0.00	4.87	0.00	1.01	0.00	0.00	2.52	0.00
M6-1	2023-08-28	0.17	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2023-08-29	0.00	0.00	0.00	0.00	1.33	0.00	0.50	0.00	0.00	0.67	0.00
M6-1	2023-08-30	0.33	0.00	0.33	0.00	1.67	0.00	0.33	0.00	0.00	0.50	0.00
M6-1	2023-08-31	0.00	0.00	0.00	0.00	0.17	0.00	0.17	0.00	0.00	0.17	0.00
M6-1	2023-09-01	0.00	0.00	0.00	0.00	0.33	0.00	0.33	0.00	0.00	0.17	0.00
M6-1	2023-09-02	0.00	0.00	0.00	0.00	0.33	0.00	0.67	0.00	0.00	0.33	0.00
M6-1	2023-09-03	0.00	0.00	0.00	0.00	0.50	0.50	1.17	0.00	0.00	2.00	0.00
M6-1	2023-09-04	0.00	0.00	0.00	0.00	0.17	0.00	0.67	0.00	0.00	0.83	0.00
M6-1	2023-09-05	0.17	0.00	0.00	0.00	0.83	0.33	0.17	0.00	0.00	0.17	0.00
M6-1	2023-09-06	0.00	0.00	0.00	0.00	0.17	0.17	0.00	0.00	0.00	0.00	0.00
M6-1	2023-09-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2023-09-08	0.00	0.00	0.00	0.00	0.17	0.33	0.00	0.00	0.00	0.17	0.00
M6-1	2023-09-09	0.00	0.00	0.00	0.00	0.17	0.17	0.50	0.00	0.00	1.33	0.00
M6-1	2023-09-10	0.00	0.00	0.00	0.00	0.17	0.33	0.17	0.00	0.00	1.00	0.00
M6-1	2023-09-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2023-09-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2023-09-13	0.00	0.00	0.00	0.00	0.17	0.50	0.00	0.00	0.00	0.17	0.00
M6-1	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.00	0.00	0.00
M6-1	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00
M6-1	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	2.71	0.00
M6-1	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
M6-1	2023-09-19	0.00	0.00	0.00	0.00	0.00	0.47	0.31	0.00	0.00	1.09	0.00
M6-1	2023-09-20	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	3.26	0.00
M6-1	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00
M6-1	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	1.97	0.00
M6-1	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
M6-1	2023-09-24	0.00	0.00	0.00	0.00	0.00	1.19	0.00	0.00	0.00	3.12	0.00
M6-1	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.44	0.00
M6-1	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.46	0.00
M6-1	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
M6-1	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	1.24	0.00
M6-1	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-1	2023-10-02	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	1.40	0.00
M6-2	2023-07-15	5.53	0.00	0.21	0.00	7.02	1.06	1.91	0.21	0.00	0.43	0.00
M6-2	2023-07-16	3.17	0.00	0.42	0.00	2.32	0.00	0.42	0.00	0.00	0.00	0.00
M6-2	2023-07-17	5.85	0.00	0.84	0.00	14.22	0.00	2.09	0.21	0.00	0.21	0.00
M6-2	2023-07-18	8.30	0.00	0.21	0.00	5.40	0.62	3.32	0.21	0.00	1.04	0.00
M6-2	2023-07-19	19.52	0.00	0.41	0.00	13.97	0.82	6.78	0.82	0.00	1.03	0.00
M6-2	2023-07-20	13.27	0.00	0.20	0.00	6.33	0.82	9.80	0.41	0.00	1.22	0.00
M6-2	2023-07-21	64.44	0.00	0.61	0.00	26.06	4.85	9.49	0.81	0.00	2.42	0.00
M6-2	2023-07-22	20.87	0.00	0.60	0.20	13.44	1.20	3.41	0.00	0.00	0.80	0.00
M6-2	2023-07-23	8.80	0.00	0.40	0.00	5.20	0.00	4.20	0.00	0.00	0.20	0.00
M6-2	2023-07-24	10.40	0.00	0.20	0.00	8.80	1.00	7.80	0.00	0.00	0.00	0.00
M6-2	2023-07-25	19.00	0.00	0.60	0.00	12.20	0.60	4.80	0.20	0.00	0.40	0.00
M6-2	2023-07-26	1.80	0.00	0.00	0.20	0.40	0.00	1.00	0.00	0.00	0.00	0.00
M6-2	2023-07-27	5.20	0.00	0.60	0.20	7.40	0.40	3.00	0.00	0.00	0.20	0.00
M6-2	2023-07-28	3.00	0.00	0.00	0.00	3.40	0.00	1.60	0.20	0.00	0.40	0.00
M6-2	2023-07-29	14.80	0.00	0.40	0.60	21.00	3.40	12.00	0.20	0.00	2.40	0.00
M6-2	2023-07-30	17.60	0.00	1.60	0.20	27.60	1.60	4.00	0.00	0.00	0.40	0.00
M6-2	2023-07-31	11.80	0.00	0.00	0.20	11.60	0.40	7.40	0.20	0.00	1.00	0.00
M6-2	2023-08-01	10.00	0.00	0.00	0.40	6.40	1.60	8.00	0.00	0.00	0.20	0.00
M6-2	2023-08-02	7.20	0.00	0.80	0.60	9.60	0.80	11.00	1.00	0.00	0.60	0.00
M6-2	2023-08-03	11.20	0.00	0.20	0.40	14.60	0.20	8.20	0.80	0.00	1.20	0.00
M6-2	2023-08-04	6.20	0.00	0.40	0.00	8.60	0.80	15.40	0.20	0.00	1.20	0.00
M6-2	2023-08-05	11.20	0.00	0.80	0.80	17.60	1.40	11.00	0.60	0.00	1.40	0.00
M6-2	2023-08-06	8.80	0.00	0.40	0.00	14.20	1.00	12.80	0.40	0.00	1.80	0.00
M6-2	2023-08-07	6.40	0.00	0.00	0.40	14.20	0.60	5.80	0.00	0.00	0.40	0.00
M6-2	2023-08-08	9.40	0.00	0.20	0.60	13.00	0.40	6.80	0.00	0.00	1.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M6-2	2023-08-09	12.20	0.00	0.20	2.80	31.60	0.40	1.20	0.00	0.00	0.20	0.00
M6-2	2023-08-10	7.00	0.00	1.00	0.40	12.40	0.60	10.40	0.20	0.00	0.60	0.00
M6-2	2023-08-11	7.40	0.00	0.40	1.00	18.80	0.40	21.20	0.40	0.00	2.40	0.00
M6-2	2023-08-12	6.75	0.00	0.79	0.79	21.66	0.99	6.75	0.00	0.00	2.19	0.00
M6-2	2023-08-13	5.10	0.00	0.20	0.00	11.37	0.20	7.25	0.20	0.00	0.20	0.00
M6-2	2023-08-14	2.90	0.00	0.00	0.19	2.71	0.39	4.06	0.39	0.00	0.19	0.00
M6-2	2023-08-15	1.15	0.00	0.00	0.00	4.41	2.11	8.24	0.00	0.00	1.73	0.00
M6-2	2023-08-16	3.60	0.00	0.38	1.51	9.65	0.76	1.14	0.00	0.00	0.00	0.00
M6-2	2023-08-17	3.37	0.00	0.19	0.19	11.25	0.56	4.87	0.00	0.00	0.37	0.00
M6-2	2023-08-18	1.11	0.00	0.00	0.19	1.48	0.00	1.48	0.00	0.00	0.56	0.00
M6-2	2023-08-19	0.73	0.00	0.00	0.00	0.00	0.00	0.73	0.18	0.00	0.18	0.00
M6-2	2023-08-20	1.27	0.00	0.54	0.36	5.08	0.18	3.63	0.00	0.00	0.36	0.00
M6-2	2023-08-21	1.79	0.00	0.00	0.00	3.22	0.18	1.97	0.00	0.00	0.36	0.00
M6-2	2023-08-22	0.36	0.00	0.00	0.18	0.00	0.18	4.08	0.00	0.00	0.00	0.00
M6-2	2023-08-23	1.05	0.00	0.00	0.00	0.52	0.00	0.52	0.00	0.00	0.17	0.00
M6-2	2023-08-24	1.91	0.00	0.17	0.00	3.29	0.00	1.04	0.00	0.00	0.00	0.00
M6-2	2023-08-25	1.03	0.00	0.17	0.00	1.54	0.17	2.74	0.00	0.00	0.17	0.00
M6-2	2023-08-26	4.91	0.00	1.19	0.51	9.66	0.51	1.53	0.00	0.00	0.51	0.00
M6-2	2023-08-27	4.37	0.00	0.17	0.00	3.36	0.00	1.34	0.00	0.00	0.00	0.00
M6-2	2023-08-28	0.50	0.00	0.17	0.00	1.33	0.00	0.17	0.00	0.00	0.00	0.00
M6-2	2023-08-29	2.67	0.00	0.33	0.00	3.17	0.17	1.50	0.00	0.00	0.00	0.00
M6-2	2023-08-30	1.17	0.00	0.17	0.17	2.67	0.33	1.33	0.00	0.00	0.00	0.00
M6-2	2023-08-31	2.33	0.00	0.00	0.17	1.17	0.17	0.83	0.00	0.00	0.00	0.00
M6-2	2023-09-01	0.83	0.00	0.00	0.00	0.50	0.00	1.50	0.17	0.00	0.00	0.00
M6-2	2023-09-02	0.50	0.00	0.00	0.00	0.50	0.00	2.00	0.00	0.00	0.17	0.00
M6-2	2023-09-03	0.17	0.00	0.00	0.33	1.00	0.17	3.83	0.00	0.00	0.83	0.00
M6-2	2023-09-04	0.17	0.00	0.00	0.00	0.33	0.00	0.50	0.00	0.00	0.00	0.00
M6-2	2023-09-05	1.00	0.00	0.00	0.00	1.17	0.17	0.50	0.00	0.00	0.00	0.00
M6-2	2023-09-06	0.00	0.00	0.00	0.00	1.00	0.00	0.33	0.00	0.00	0.00	0.00
M6-2	2023-09-07	0.50	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2023-09-08	0.00	0.00	0.17	0.00	0.33	0.83	0.00	0.00	0.00	1.00	0.00
M6-2	2023-09-09	0.67	0.00	0.00	0.00	0.33	0.17	1.17	0.00	0.00	0.50	0.00
M6-2	2023-09-10	0.00	0.00	0.00	0.00	0.33	0.17	0.33	0.00	0.00	1.50	0.00
M6-2	2023-09-11	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2023-09-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2023-09-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2023-09-14	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2023-09-15	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2023-09-16	0.16	0.00	0.00	0.00	0.97	0.16	0.00	0.00	0.00	0.16	0.00
M6-2	2023-09-17	0.00	0.00	0.00	0.00	0.16	0.16	0.32	0.00	0.00	1.91	0.00
M6-2	2023-09-18	0.16	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.16	0.00
M6-2	2023-09-19	0.00	0.00	0.00	0.00	0.16	0.31	0.94	0.00	0.00	0.62	0.00
M6-2	2023-09-20	0.00	0.00	0.00	0.00	0.00	1.86	0.31	0.00	0.00	1.71	0.00
M6-2	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
M6-2	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.30	0.15	0.00	0.00	0.15	0.00
M6-2	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	1.78	0.00
M6-2	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.29	0.00
M6-2	2023-09-26	0.00	0.00	0.00	0.15	0.00	0.00	0.29	0.00	0.00	1.17	0.00
M6-2	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.29	0.00
M6-2	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M6-2	2023-10-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-07-15	1.28	0.00	0.00	0.00	0.21	3.83	0.64	0.00	0.00	8.08	0.00
M3-6-control	2023-07-16	0.00	0.00	0.00	0.00	0.85	0.21	0.21	0.00	0.00	0.00	0.00
M3-6-control	2023-07-17	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M3-6-control	2023-07-18	0.00	0.00	0.00	0.00	0.21	0.00	2.91	0.00	0.00	2.49	0.00
M3-6-control	2023-07-19	0.82	0.00	0.00	0.00	1.85	0.00	1.44	0.00	0.00	1.03	0.00
M3-6-control	2023-07-20	0.61	0.00	0.00	0.20	1.02	0.20	2.45	0.20	0.00	2.04	0.00
M3-6-control	2023-07-21	0.81	0.00	0.20	0.00	1.01	1.21	2.83	0.20	0.00	1.41	0.00
M3-6-control	2023-07-22	0.80	0.00	0.00	0.00	1.40	0.20	1.00	0.00	0.00	2.21	0.00
M3-6-control	2023-07-23	0.20	0.00	0.00	0.00	0.20	0.80	0.40	0.00	0.00	0.80	0.00
M3-6-control	2023-07-24	0.20	0.00	0.00	0.20	0.40	0.60	3.60	0.00	0.00	0.60	0.00
M3-6-control	2023-07-25	1.00	0.00	0.00	0.00	1.60	0.40	2.40	0.00	0.00	1.60	0.00
M3-6-control	2023-07-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
M3-6-control	2023-07-27	0.00	0.00	0.00	0.00	1.00	1.00	0.80	0.00	0.00	0.80	0.00
M3-6-control	2023-07-28	0.00	0.00	0.00	0.00	0.20	0.80	0.40	0.00	0.00	0.60	0.00
M3-6-control	2023-07-29	1.60	0.00	0.20	0.00	1.40	1.80	1.60	0.40	0.00	7.20	0.00
M3-6-control	2023-07-30	1.60	0.00	0.20	0.00	0.80	0.80	2.60	0.20	0.00	3.80	0.00
M3-6-control	2023-07-31	0.40	0.00	0.00	0.40	0.40	0.20	3.20	0.00	0.00	1.80	0.00
M3-6-control	2023-08-01	0.80	0.00	0.00	0.00	0.60	0.60	5.00	0.00	0.00	2.40	0.00
M3-6-control	2023-08-02	1.40	0.00	0.00	0.00	0.20	0.00	4.40	0.00	0.00	2.20	0.00
M3-6-control	2023-08-03	0.60	0.00	0.00	0.00	0.20	0.40	4.40	0.00	0.00	3.40	0.00
M3-6-control	2023-08-04	0.20	0.00	0.00	0.00	0.40	0.60	10.40	0.00	0.00	3.00	0.00
M3-6-control	2023-08-05	0.80	0.00	0.00	0.40	0.80	2.20	1.60	0.60	0.00	2.20	0.00
M3-6-control	2023-08-06	0.80	0.00	0.00	0.20	0.20	0.80	2.80	0.00	0.00	1.60	0.00
M3-6-control	2023-08-07	0.40	0.00	0.00	0.20	0.40	0.20	3.80	0.00	0.00	2.20	0.00
M3-6-control	2023-08-08	0.00	0.00	0.00	0.00	0.20	0.20	0.20	0.00	0.00	0.00	0.00
M3-6-control	2023-08-09	0.40	0.00	0.20	1.20	1.00	0.00	0.20	0.00	0.00	0.20	0.00
M3-6-control	2023-08-10	0.20	0.00	0.20	0.60	0.20	0.40	5.00	0.60	0.00	3.60	0.00
M3-6-control	2023-08-11	0.20	0.00	0.40	0.20	0.60	0.40	5.40	0.00	0.00	3.40	0.00
M3-6-control	2023-08-12	0.60	0.00	0.00	0.20	0.60	0.99	2.38	0.00	0.00	2.78	0.00
M3-6-control	2023-08-13	0.00	0.00	0.20	0.20	0.59	0.20	0.98	0.00	0.00	2.55	0.00
M3-6-control	2023-08-14	0.97	0.00	0.00	0.39	0.58	0.77	3.29	0.19	0.00	2.71	0.00
M3-6-control	2023-08-15	0.19	0.00	0.19	0.00	0.58	0.19	6.90	0.19	0.00	2.88	0.00
M3-6-control	2023-08-16	0.38	0.00	0.00	0.00	0.38	0.19	0.57	0.19	0.00	0.38	0.00
M3-6-control	2023-08-17	0.00	0.00	0.00	0.19	0.19	0.00	2.06	0.00	0.00	0.94	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M3-6-control	2023-08-18	0.93	0.00	0.00	0.00	0.56	0.19	1.30	0.00	0.00	0.56	0.00
M3-6-control	2023-08-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-08-20	0.00	0.00	0.00	0.00	0.18	0.00	0.73	0.00	0.00	0.36	0.00
M3-6-control	2023-08-21	0.00	0.00	0.00	0.00	0.54	0.00	1.07	0.00	0.00	0.18	0.00
M3-6-control	2023-08-22	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
M3-6-control	2023-08-23	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-08-24	0.17	0.00	0.00	0.00	0.00	0.17	0.35	0.00	0.00	0.00	0.00
M3-6-control	2023-08-25	0.00	0.00	0.00	0.00	0.17	0.17	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-08-26	1.19	0.00	0.00	0.00	0.51	0.17	0.51	0.00	0.00	3.05	0.00
M3-6-control	2023-08-27	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-08-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-08-29	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.17	0.00
M3-6-control	2023-08-30	0.00	0.00	0.00	1.17	1.17	0.83	1.00	0.00	0.00	1.00	0.00
M3-6-control	2023-08-31	0.17	0.00	0.00	0.00	0.50	0.00	1.83	0.00	0.00	0.67	0.00
M3-6-control	2023-09-01	0.17	0.00	0.00	0.00	0.50	0.33	1.50	0.00	0.00	1.00	0.00
M3-6-control	2023-09-02	0.17	0.00	0.00	1.17	2.33	0.00	0.33	0.00	0.00	0.83	0.00
M3-6-control	2023-09-03	0.00	0.00	0.00	1.00	2.17	0.00	2.00	0.00	0.00	0.50	0.00
M3-6-control	2023-09-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-09-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-09-06	0.00	0.00	0.00	0.17	0.17	0.00	0.17	0.00	0.00	3.17	0.00
M3-6-control	2023-09-07	0.17	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.83	0.00
M3-6-control	2023-09-08	0.00	0.00	0.00	0.17	0.00	0.00	0.33	0.00	0.00	2.00	0.00
M3-6-control	2023-09-09	0.00	0.00	0.00	0.00	0.17	0.00	0.17	0.00	0.00	2.50	0.00
M3-6-control	2023-09-10	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.83	0.00
M3-6-control	2023-09-11	0.00	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	4.67	0.00
M3-6-control	2023-09-12	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.67	0.00
M3-6-control	2023-09-13	0.00	0.00	0.00	0.00	0.00	0.17	0.33	0.00	0.00	0.00	0.00
M3-6-control	2023-09-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-09-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-09-16	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
M3-6-control	2023-09-17	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.00	0.00	2.07	0.00

Detector	Night	Little Brown Myotis	Northern Myotis	Unknown Myotis sp.	Eastern Red Bat	Unknown High-frequency	Hoary Bat	Silver-haired Bat	Big Brown Bat	Silver-haired Bat / Big Brown Bat	Unknown Low-frequency	Unknown
M3-6-control	2023-09-18	0.00	0.00	0.00	0.00	0.00	0.16	0.47	0.00	0.00	0.47	0.00
M3-6-control	2023-09-19	0.00	0.00	0.00	0.00	0.16	0.00	0.62	0.00	0.00	1.09	0.00
M3-6-control	2023-09-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
M3-6-control	2023-09-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00
M3-6-control	2023-09-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00
M3-6-control	2023-09-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00
M3-6-control	2023-09-24	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	1.93	0.00
M3-6-control	2023-09-25	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.74	0.00
M3-6-control	2023-09-26	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
M3-6-control	2023-09-27	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.58	0.00
M3-6-control	2023-09-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-09-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-09-30	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.69	0.00
M3-6-control	2023-10-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M3-6-control	2023-10-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D4. Weather Conditions During Each Survey Night.

Night	Average Temperature	Total Precipitation	Hours Precipitation	Average Windspeed
2021-05-31	11.80	0.00	0.0	5.27
2021-06-01	15.00	0.00	0.0	7.41
2021-06-02	15.33	0.00	0.0	5.91
2021-06-03	15.30	0.00	0.0	7.05
2021-06-04	16.48	0.00	0.0	6.64
2021-06-05	20.78	1.00	0.5	15.36
2021-06-06	16.89	0.00	0.0	14.05
2021-06-07	14.16	0.00	0.0	2.50
2021-06-08	18.21	0.00	0.0	8.23
2021-06-09	15.80	0.25	1.0	18.73
2021-06-10	12.08	0.00	0.0	17.23
2021-06-11	16.04	0.10	0.5	15.55
2021-06-12	14.23	0.00	0.0	7.27
2021-06-13	14.54	0.00	0.0	7.55
2021-06-14	13.53	0.00	0.0	5.23
2021-06-15	14.79	0.00	0.0	5.27
2021-06-16	19.44	0.00	0.0	11.82
2021-06-17	16.88	0.00	0.0	14.41
2021-06-18	9.44	0.00	0.0	7.45
2021-06-19	13.32	0.10	0.5	9.14
2021-06-20	6.75	0.00	0.0	9.41
2021-06-21	6.95	0.00	0.0	7.73
2021-06-22	12.89	0.00	0.0	9.32
2021-06-23	13.97	0.00	0.0	11.91
2021-06-24	13.58	0.00	0.0	4.95
2021-06-25	17.71	0.00	0.0	6.91
2021-06-26	15.23	0.00	0.0	3.68
2021-06-27	16.60	0.00	0.0	8.09
2021-06-28	13.99	0.00	0.0	5.50
2021-06-29	15.38	0.00	0.0	3.23
2021-08-27	13.79	3.70	3.5	10.86
2021-08-28	16.06	0.00	0.0	4.36
2021-08-29	14.22	0.05	0.5	9.95
2021-08-30	10.73	0.00	0.0	2.73
2021-08-31	12.06	0.00	0.0	4.86
2021-09-01	14.82	0.00	0.0	7.82
2021-09-02	15.70	1.50	3.0	11.14
2021-09-03	14.81	0.00	0.0	8.68
2021-09-04	12.12	0.00	0.0	11.23
2021-09-05	9.89	0.00	0.0	6.36
2021-09-06	14.12	0.20	1.0	11.86
2022-05-04	2.43	0.00	0.0	6.05
2022-05-05	4.81	0.00	0.0	9.95
2022-05-06	8.71	0.00	0.0	6.18
2022-05-07	9.10	1.40	1.0	8.27
2022-05-08	7.06	0.00	0.0	6.36
2022-05-09	8.83	1.20	3.0	12.91
2022-05-10	6.14	0.00	0.0	1.00
2022-05-11	10.76	5.70	4.0	8.91
2022-05-12	10.25	9.40	5.0	12.36
2022-05-13	12.49	0.00	0.0	8.45
2022-05-14	5.42	0.00	0.0	5.91
2022-05-15	2.93	0.00	0.0	11.91
2022-05-16	2.48	0.00	0.0	2.91
2022-05-17	8.11	0.90	4.0	2.00
2022-05-18	2.69	0.00	0.0	3.82
2022-05-19	5.05	11.60	8.0	12.73
2022-05-20	1.20	0.00	0.0	5.64
2022-05-21	2.85	0.00	0.0	3.00
2022-05-22	4.75	0.00	0.0	1.18

Night	Average Temperature	Total Precipitation	Hours Precipitation	Average Windspeed
2022-05-23	8.38	0.00	0.0	3.91
2022-05-24	8.80	0.00	0.0	3.77
2022-05-25	9.86	0.35	1.0	7.09
2022-05-26	11.38	0.20	1.0	5.14
2022-05-27	12.08	0.00	0.0	6.50
2022-05-28	12.63	0.00	0.0	12.18
2022-05-29	13.51	0.45	1.5	14.09
2022-05-30	13.80	6.40	3.5	19.45
2022-05-31	6.19	0.40	2.0	22.23
2022-06-01	8.46	0.20	1.0	12.23
2022-06-02	4.55	0.00	0.0	11.41
2022-06-03	5.11	0.20	1.0	4.82
2022-06-04	7.51	0.10	0.5	3.86
2022-06-05	8.46	0.00	0.0	4.91
2022-06-06	9.70	1.80	1.0	4.00
2022-06-07	10.43	3.25	1.5	5.59
2022-06-08	8.87	0.00	0.0	4.36
2022-06-09	9.60	0.00	0.0	5.14
2022-06-10	9.57	0.00	0.0	11.77
2022-06-11	11.66	0.00	0.0	4.32
2022-06-12	14.57	7.15	2.0	10.82
2022-06-13	15.21	0.50	1.0	14.09
2022-06-14	14.78	0.30	1.5	12.50
2022-06-15	13.24	3.45	4.0	8.09
2022-06-16	11.84	0.00	0.0	11.73
2022-06-17	10.73	0.00	0.0	5.59
2022-06-18	16.68	0.40	0.5	13.32
2022-06-19	21.46	0.00	0.0	12.86
2022-06-20	22.42	6.10	2.0	8.91
2022-06-21	11.05	4.75	3.0	13.77
2022-06-22	16.72	1.85	3.5	11.00
2022-06-23	16.35	0.00	0.0	11.23
2022-06-24	15.24	5.60	5.5	15.45
2022-06-02	4.55	0.00	0.0	11.41
2022-06-03	5.11	0.20	1.0	4.82
2022-06-04	7.51	0.10	0.5	3.86
2022-06-05	8.46	0.00	0.0	4.91
2022-06-06	9.70	1.80	1.0	4.00
2022-06-07	10.43	3.25	1.5	5.59
2022-06-08	8.87	0.00	0.0	4.36
2022-06-09	9.60	0.00	0.0	5.14
2022-06-10	9.57	0.00	0.0	11.77
2022-06-11	11.66	0.00	0.0	4.32
2022-06-12	14.57	7.15	2.0	10.82
2022-06-13	15.21	0.50	1.0	14.09
2022-06-14	14.78	0.30	1.5	12.50
2022-06-15	13.24	3.45	4.0	8.09
2022-06-16	11.84	0.00	0.0	11.73
2022-06-17	10.73	0.00	0.0	5.59
2022-06-18	16.68	0.40	0.5	13.32
2022-06-19	21.46	0.00	0.0	12.86
2022-06-20	22.42	6.10	2.0	8.91
2022-06-21	11.05	4.75	3.0	13.77
2022-06-22	16.72	1.85	3.5	11.00
2022-06-23	16.35	0.00	0.0	11.23
2022-06-24	15.24	5.60	5.5	15.45
2022-06-25	13.20	2.80	3.5	12.14
2022-06-26	9.38	0.10	0.5	8.50
2022-06-27	13.15	0.10	0.5	4.82
2022-06-28	10.24	0.00	0.0	8.09
2022-06-29	13.05	0.50	1.0	9.82
2022-06-30	9.81	0.00	0.0	11.59
2022-07-01	12.00	0.00	0.0	4.23

Night	Average Temperature	Total Precipitation	Hours Precipitation	Average Windspeed
2022-07-02	10.65	0.00	0.0	6.36
2022-07-03	13.03	0.00	0.0	6.09
2022-07-04	15.71	0.20	0.5	9.68
2022-07-05	13.74	0.00	0.0	5.82
2022-07-06	16.01	8.50	3.0	7.36
2022-07-07	12.87	0.00	0.0	4.09
2022-07-08	16.39	0.00	0.0	4.55
2022-07-09	18.79	0.00	0.0	7.55
2022-07-10	16.58	1.95	2.5	7.41
2022-07-11	13.90	0.60	1.5	5.73
2022-07-12	12.47	0.00	0.0	4.05
2022-07-13	15.62	0.00	0.0	5.77
2022-07-14	18.33	0.00	0.0	8.23
2022-07-15	17.76	0.00	0.0	2.82
2022-07-16	20.42	0.00	0.0	6.55
2022-07-17	21.19	3.45	0.5	10.73
2022-07-18	18.58	0.00	0.0	8.68
2022-07-19	18.96	0.60	0.5	11.91
2022-07-20	19.17	0.00	0.0	10.09
2022-07-21	15.59	0.80	2.0	8.28
2022-07-22	14.61	0.10	0.5	6.50
2022-07-23	13.38	2.85	3.0	8.64
2022-07-24	12.60	0.20	1.0	8.82
2022-07-25	17.43	5.20	3.5	8.77
2022-07-26	14.61	2.15	0.5	6.09
2022-07-27	13.36	2.25	3.0	9.32
2022-07-28	14.16	0.35	1.0	7.50
2022-07-29	17.91	0.00	0.0	9.91
2022-07-30	17.23	7.25	3.0	8.32
2022-07-31	11.85	1.20	4.0	10.50
2022-08-01	12.67	0.00	0.0	3.18
2022-08-02	17.43	7.70	2.5	14.73
2022-08-03	10.91	0.00	0.0	4.68
2022-08-04	17.31	0.00	0.0	9.86
2022-08-05	19.25	0.00	0.0	17.14
2022-08-06	8.50	0.00	0.0	3.77
2022-08-07	12.15	0.00	0.0	5.18
2022-08-08	20.11	0.00	0.0	13.05
2022-08-09	15.10	0.00	0.0	13.50
2022-08-10	9.58	0.00	0.0	4.68
2022-08-11	14.40	0.00	0.0	6.36
2022-08-12	17.14	0.00	0.0	3.77
2022-08-13	15.59	0.70	1.0	4.68
2022-08-14	17.11	9.40	2.5	10.32
2022-08-15	17.53	0.00	0.0	9.23
2022-08-16	16.14	4.10	4.5	9.68
2022-08-17	16.79	0.00	0.0	2.73
2022-08-18	17.38	0.30	0.5	7.05
2022-08-19	11.50	0.00	0.0	4.86
2022-08-20	13.25	0.00	0.0	4.82
2022-08-21	18.09	3.20	1.5	7.09
2022-08-22	13.59	0.00	0.0	6.45
2023-05-25	17.21	0.00	0.0	10.68
2023-05-26	20.65	0.00	0.0	15.59
2023-05-27	16.91	0.00	0.0	6.23
2023-05-28	16.43	0.00	0.0	7.73
2023-05-29	18.87	0.00	0.0	10.73
2023-05-30	16.40	0.40	0.5	8.05
2023-05-31	17.00	0.40	0.5	9.73
2023-06-01	18.07	2.90	2.0	12.27
2023-06-02	19.61	0.00	0.0	9.27
2023-06-03	20.05	1.35	1.0	4.05
2023-06-04	18.98	0.05	0.5	11.36

Night	Average Temperature	Total Precipitation	Hours Precipitation	Average Windspeed
2023-06-05	16.11	0.00	0.0	10.36
2023-06-06	14.25	0.00	0.0	10.68
2023-06-07	14.18	0.00	0.0	6.50
2023-06-08	16.39	0.00	0.0	6.09
2023-06-09	10.72	0.00	0.0	16.50
2023-06-10	9.09	0.00	0.0	5.00
2023-06-11	12.17	0.00	0.0	4.50
2023-06-12	14.14	0.00	0.0	4.36
2023-06-13	6.76	0.00	0.0	12.14
2023-06-14	6.87	0.00	0.0	8.32
2023-06-15	10.80	0.00	0.0	5.73
2023-06-16	16.82	0.00	0.0	3.86
2023-06-17	17.97	0.00	0.0	6.68
2023-06-18	18.74	0.00	0.0	8.50
2023-06-19	20.95	0.00	0.0	11.05
2023-06-20	23.40	0.00	0.0	13.59
2023-06-21	21.27	0.00	0.0	5.18
2023-06-22	13.46	0.40	0.5	5.00
2023-06-23	15.94	0.00	0.0	2.59
2023-06-24	16.76	0.25	1.0	7.95
2023-06-25	14.31	0.00	0.0	4.95
2023-06-26	12.20	0.00	0.0	9.82
2023-06-27	16.64	0.00	0.0	7.91
2023-06-28	17.49	0.00	0.0	6.91
2023-06-29	16.42	0.00	0.0	6.73
2023-06-30	15.53	1.35	0.5	3.86
2023-07-01	19.17	0.00	0.0	3.50
2023-07-02	21.51	0.00	0.0	8.95
2023-07-03	18.06	0.00	0.0	7.45
2023-07-04	12.98	0.70	1.0	11.32
2023-07-05	11.57	0.00	0.0	5.32
2023-07-06	15.19	0.25	0.5	9.23
2023-07-07	9.37	0.00	0.0	4.05
2023-07-08	15.09	0.35	1.0	8.32
2023-07-09	10.65	0.75	1.0	7.36
2023-07-10	10.72	1.80	4.5	16.82
2023-07-11	12.22	0.00	0.0	6.36
2023-07-12	15.50	0.00	0.0	8.64
2023-07-13	14.73	0.50	0.5	7.64
2023-07-15	12.10	1.45	2.0	5.14
2023-07-16	11.61	1.00	3.0	10.09
2023-07-17	10.76	0.20	1.0	5.91
2023-07-18	13.70	0.00	0.0	5.36
2023-07-19	13.92	0.00	0.0	4.23
2023-07-20	15.38	0.00	0.0	3.91
2023-07-21	16.44	0.05	0.5	5.68
2023-07-22	13.54	0.25	0.5	6.55
2023-07-23	11.58	0.00	0.0	2.77
2023-07-24	15.05	0.00	0.0	3.86
2023-07-25	17.87	22.70	4.5	6.82
2023-07-26	17.61	16.75	1.5	11.82
2023-07-27	12.27	0.00	0.0	8.23
2023-07-28	11.72	0.00	0.0	4.77
2023-07-29	15.04	1.10	2.0	8.64
2023-07-30	14.44	0.50	0.5	4.55
2023-07-31	14.42	0.00	0.0	5.09
2023-08-01	16.56	0.50	1.0	6.18
2023-08-02	16.69	2.90	0.5	5.09
2023-08-03	14.70	0.00	0.0	4.91
2023-08-04	18.33	0.00	0.0	7.77
2023-08-05	17.45	0.00	0.0	7.82
2023-08-06	15.94	0.00	0.0	4.68
2023-08-07	13.64	0.00	0.0	4.32

Night	Average Temperature	Total Precipitation	Hours Precipitation	Average Windspeed
2023-08-08	12.65	0.00	0.0	10.32
2023-08-09	11.18	0.20	1.0	10.41
2023-08-10	13.30	0.25	0.5	8.64
2023-08-11	12.25	0.30	1.5	8.55
2023-08-12	13.26	0.00	0.0	3.95
2023-08-13	12.27	0.00	0.0	4.09
2023-08-14	17.40	0.00	0.0	10.00
2023-08-15	14.64	0.00	0.0	5.05
2023-08-16	12.78	1.65	0.5	23.23
2023-08-17	11.16	0.00	0.0	4.27
2023-08-18	19.45	0.05	0.5	12.05
2023-08-19	14.78	0.00	0.0	10.82
2023-08-20	13.81	0.00	0.0	5.41
2023-08-21	14.80	0.00	0.0	4.50
2023-08-22	14.87	0.00	0.0	8.59
2023-08-23	15.69	1.55	2.0	5.09
2023-08-24	16.02	2.55	1.5	6.77
2023-08-25	7.91	0.00	0.0	3.36
2023-08-26	12.31	0.00	0.0	6.41
2023-08-27	15.79	0.85	1.5	6.59
2023-08-28	11.63	1.65	2.5	6.45
2023-08-29	9.91	0.00	0.0	4.64
2023-08-30	14.20	0.00	0.0	4.41
2023-08-31	19.05	0.00	0.0	13.00
2023-09-01	16.46	0.00	0.0	9.64
2023-09-02	20.60	0.00	0.0	11.68
2023-09-03	14.98	0.00	0.0	6.00
2023-09-04	18.94	3.65	1.0	7.50
2023-09-05	10.50	0.00	0.0	14.00
2023-09-06	6.32	0.00	0.0	7.59
2023-09-07	9.74	0.00	0.0	7.95
2023-09-08	9.26	0.00	0.0	3.86
2023-09-09	8.52	0.00	0.0	5.09
2023-09-10	7.28	0.20	1.0	8.82
2023-09-11	3.84	0.00	0.0	6.14
2023-09-12	5.25	0.00	0.0	4.00
2023-09-13	8.63	0.00	0.0	8.18
2023-09-14	12.64	0.00	0.0	9.32
2023-09-15	10.05	5.40	1.0	5.18
2023-09-16	7.67	0.00	0.0	5.41
2023-09-17	8.77	0.00	0.0	8.18
2023-09-18	12.10	0.00	0.0	11.59
2023-09-19	13.89	0.00	0.0	12.95
2023-09-20	12.67	0.00	0.0	6.18
2023-09-21	12.66	1.30	2.5	7.23
2023-09-22	10.26	0.00	0.0	10.00
2023-09-23	15.02	0.05	0.5	12.68
2023-09-24	13.25	0.00	0.0	10.50
2023-09-25	14.27	0.00	0.0	11.50

Table D5. Results from a general linear model used to compare average activity (passes/hr) of high-frequency species (likely SAR species) to that of low-frequency species (non-SAR species) during Fall 2021.

Parameter	Estimate	Standard Error	t value	p value
(Intercept)	0.75	0.76	0.98	0.33
GroupLoFspp	1.72	1.08	1.59	0.11
SiteCliff 1-2	2.06	1.08	1.91	0.06
SiteCliff 1-3	1.96	1.08	1.82	0.07
SiteCliff 1-4	2.58	1.08	2.39	0.02
SiteCliff 1-5	4.52	1.08	4.19	0.00
SiteCliff 1-6	4.19	1.08	3.88	0.00
SiteCliff 2-1	-0.68	1.11	-0.61	0.54
SiteCliff 2-2	-0.47	1.11	-0.43	0.67
SiteCliff 3	-0.56	1.25	-0.45	0.65
SiteCliff 6	0.30	1.08	0.28	0.78
SiteCliff 6-control	0.29	1.08	0.26	0.79
SiteM2	-0.53	1.08	-0.49	0.62
SiteM2 control	-0.46	1.08	-0.43	0.67
SiteM3-1	2.30	1.08	2.13	0.03
SiteM3-2	-0.43	1.08	-0.40	0.69
SiteM3-6-control	0.09	1.08	0.09	0.93
SiteM5-1	2.46	1.08	2.28	0.02
SiteM6-1	2.57	1.08	2.38	0.02
SiteM6-2	2.98	1.08	2.77	0.01
GroupLoFspp:SiteCliff 1-2	0.38	1.53	0.25	0.80
GroupLoFspp:SiteCliff 1-3	-0.72	1.53	-0.47	0.64
GroupLoFspp:SiteCliff 1-4	-2.61	1.53	-1.71	0.09
GroupLoFspp:SiteCliff 1-5	-3.56	1.53	-2.33	0.02
GroupLoFspp:SiteCliff 1-6	-4.19	1.53	-2.75	0.01
GroupLoFspp:SiteCliff 2-1	0.54	1.57	0.34	0.73
GroupLoFspp:SiteCliff 2-2	3.37	1.57	2.15	0.03
GroupLoFspp:SiteCliff 3	-1.07	1.76	-0.61	0.55
GroupLoFspp:SiteCliff 6	0.04	1.53	0.03	0.98
GroupLoFspp:SiteCliff 6-control	0.31	1.53	0.20	0.84
GroupLoFspp:SiteM2	0.52	1.53	0.34	0.73
GroupLoFspp:SiteM2 control	1.42	1.53	0.93	0.35
GroupLoFspp:SiteM3-1	-2.14	1.53	-1.40	0.16
GroupLoFspp:SiteM3-2	0.52	1.53	0.34	0.73
GroupLoFspp:SiteM3-6-control	-0.11	1.53	-0.07	0.94
GroupLoFspp:SiteM5-1	-3.76	1.53	-2.46	0.01
GroupLoFspp:SiteM6-1	-2.71	1.53	-1.77	0.08
GroupLoFspp:SiteM6-2	-1.17	1.53	-0.76	0.45

Table D6. Results from least-square means contrasts adjusting for multiple comparisons (Benjamini-Hochberg false discovery rate correction) used to assess differences in activity levels between high- and low-frequency bat species at each site surveyed during Fall 2021.

Site	Estimate	Standard Error	df	t ratio	Unadjusted p value	Adjusted p value
Cliff 1-1	-1.72	1.08	330	-1.59	0.11	0.18
Cliff 1-2	-2.10	1.08	330	-1.94	0.05	0.13
Cliff 1-3	-0.99	1.08	330	-0.92	0.36	0.46
Cliff 1-4	0.90	1.08	330	0.83	0.41	0.48
Cliff 1-5	1.84	1.08	330	1.70	0.09	0.17
Cliff 1-6	2.47	1.08	330	2.29	0.02	0.13
Cliff 2-1	-2.26	1.14	330	-1.98	0.05	0.13
Cliff 2-2	-5.08	1.14	330	-4.47	0.00	0.00
Cliff 3	-0.65	1.39	330	-0.47	0.64	0.68
Cliff 6	-1.76	1.08	330	-1.63	0.10	0.18
Cliff 6-control	-2.03	1.08	330	-1.88	0.06	0.13
M2	-2.24	1.08	330	-2.08	0.04	0.13
M2 control	-3.14	1.08	330	-2.91	0.00	0.04
M3-1	0.43	1.08	330	0.39	0.69	0.69
M3-2	-2.24	1.08	330	-2.07	0.04	0.13
M3-6-control	-1.61	1.08	330	-1.49	0.14	0.20
M5-1	2.04	1.08	330	1.89	0.06	0.13
M6-1	0.99	1.08	330	0.92	0.36	0.46
M6-2	-0.55	1.08	330	-0.51	0.61	0.68

Table D7. Results from a general linear model used to compare average activity (passes/hr) of high-frequency species (likely SAR species) to that of low-frequency species (non-SAR species) during Spring 2022.

Parameter	Estimate	Standard Error	t value	p value
(Intercept)	0.06	0.90	0.06	0.95
GroupLoFspp	-0.01	1.27	-0.01	1.00
SiteCliff 1-2	1.33	1.27	1.05	0.29
SiteCliff 1-3	0.97	1.27	0.77	0.44
SiteCliff 1-4	1.21	1.27	0.96	0.34
SiteCliff 1-5	0.95	1.35	0.70	0.48
SiteCliff 1-6	0.81	1.27	0.64	0.52
SiteCliff 1-7	1.02	1.27	0.81	0.42
SiteCliff 1-8	0.42	1.77	0.24	0.81
SiteCliff 1-9	0.18	2.44	0.07	0.94
SiteCliff 1-10	0.91	1.27	0.72	0.47
SiteCliff 1-control	1.93	1.27	1.52	0.13
SiteCliff 2-1	-0.06	2.44	-0.02	0.98
SiteCliff 2-2	0.02	2.26	0.01	0.99
SiteCliff 2-control	0.02	1.84	0.01	0.99
SiteCliff 3	-0.02	1.34	-0.02	0.99
SiteCliff 3-control	-0.02	1.34	-0.01	0.99
SiteCliff 6	1.10	1.45	0.76	0.45
SiteCliff 6-control	0.92	1.35	0.68	0.50
SiteM2	0.40	1.14	0.35	0.73
SiteM2 control	0.40	1.15	0.34	0.73
SiteM3-1	0.71	1.32	0.53	0.59
SiteM3-2	0.23	1.32	0.17	0.86
SiteM3-6-control	0.72	1.15	0.62	0.53
SiteM5-1	0.22	1.32	0.17	0.87
SiteM6-1	0.89	1.32	0.67	0.50
SiteM6-2	1.69	1.32	1.27	0.20
GroupLoFspp:SiteCliff 1-2	0.81	1.79	0.45	0.65
GroupLoFspp:SiteCliff 1-3	0.09	1.79	0.05	0.96
GroupLoFspp:SiteCliff 1-4	0.65	1.79	0.36	0.72
GroupLoFspp:SiteCliff 1-5	0.28	1.91	0.15	0.88
GroupLoFspp:SiteCliff 1-6	0.03	1.79	0.02	0.99
GroupLoFspp:SiteCliff 1-7	-0.04	1.79	-0.02	0.98
GroupLoFspp:SiteCliff 1-8	-0.43	2.51	-0.17	0.86
GroupLoFspp:SiteCliff 1-9	-0.20	3.45	-0.06	0.95
GroupLoFspp:SiteCliff 1-10	-0.08	1.79	-0.04	0.97
GroupLoFspp:SiteCliff 1-control	2.93	1.79	1.64	0.10
GroupLoFspp:SiteCliff 2-1	0.04	3.45	0.01	0.99
GroupLoFspp:SiteCliff 2-2	0.01	3.19	0.00	1.00
GroupLoFspp:SiteCliff 2-control	0.03	2.60	0.01	0.99
GroupLoFspp:SiteCliff 3	0.15	1.89	0.08	0.94
GroupLoFspp:SiteCliff 3-control	0.12	1.89	0.06	0.95
GroupLoFspp:SiteCliff 6	7.48	2.04	3.66	0.00
GroupLoFspp:SiteCliff 6-control	0.32	1.91	0.17	0.87
GroupLoFspp:SiteM2	2.41	1.61	1.49	0.14
GroupLoFspp:SiteM2 control	2.67	1.62	1.65	0.10
GroupLoFspp:SiteM3-1	2.03	1.87	1.08	0.28
GroupLoFspp:SiteM3-2	0.80	1.87	0.43	0.67
GroupLoFspp:SiteM3-6-control	1.89	1.63	1.16	0.25
GroupLoFspp:SiteM5-1	0.03	1.87	0.02	0.99
GroupLoFspp:SiteM6-1	0.34	1.87	0.18	0.86
GroupLoFspp:SiteM6-2	0.99	1.87	0.53	0.60

Table D8. Results from least-square means contrasts adjusting for multiple comparisons (Benjamini-Hochberg false discovery rate correction) used to assess differences in activity levels between high- and low-frequency bat species at each site surveyed during Spring 2022.

Site	Estimate	Standard Error	df	t ratio	Unadjusted p value	Adjusted p value
Cliff 1-1	0.01	1.27	1350	0.01	1.00	1.00
Cliff 1-2	-0.81	1.27	1350	-0.64	0.52	1.00
Cliff 1-3	-0.08	1.27	1350	-0.07	0.95	1.00
Cliff 1-4	-0.65	1.27	1350	-0.51	0.61	1.00
Cliff 1-5	-0.28	1.43	1350	-0.19	0.85	1.00
Cliff 1-6	-0.02	1.27	1350	-0.02	0.99	1.00
Cliff 1-7	0.04	1.27	1350	0.03	0.97	1.00
Cliff 1-8	0.43	2.16	1350	0.20	0.84	1.00
Cliff 1-9	0.21	3.21	1350	0.07	0.95	1.00
Cliff 1-10	0.08	1.27	1350	0.07	0.95	1.00
Cliff 1-control	-2.93	1.27	1350	-2.31	0.02	0.14
Cliff 2-1	-0.03	3.21	1350	-0.01	0.99	1.00
Cliff 2-2	-0.01	2.93	1350	0.00	1.00	1.00
Cliff 2-control	-0.02	2.27	1350	-0.01	0.99	1.00
Cliff 3	-0.14	1.41	1350	-0.10	0.92	1.00
Cliff 3-control	-0.11	1.41	1350	-0.08	0.94	1.00
Cliff 6	-7.47	1.60	1350	-4.66	0.00	0.00
Cliff 6-control	-0.31	1.43	1350	-0.22	0.83	1.00
M2	-2.40	0.99	1350	-2.41	0.02	0.14
M2 control	-2.66	1.01	1350	-2.63	0.01	0.11
M3-1	-2.02	1.38	1350	-1.46	0.14	0.62
M3-2	-0.79	1.38	1350	-0.57	0.57	1.00
M3-6-control	-1.88	1.02	1350	-1.84	0.07	0.35
M5-1	-0.03	1.38	1350	-0.02	0.98	1.00
M6-1	-0.33	1.38	1350	-0.24	0.81	1.00
M6-2	-0.99	1.38	1350	-0.72	0.47	1.00

Table D9. Results from a general linear model used to compare average activity (passes/hr) of high-frequency species (likely SAR species) to that of low-frequency species (non-SAR species) during Fall 2023.

Parameter	Estimate	Standard Error	t value	p value
(Intercept)	0.32	0.63	0.50	0.62
GroupLoFspp	1.18	0.90	1.31	0.19
SiteCliff 1-2	2.03	0.90	2.26	0.02
SiteCliff 1-3	1.58	0.90	1.76	0.08
SiteCliff 1-4	0.48	0.90	0.53	0.60
SiteCliff 1-5	1.08	0.93	1.17	0.24
SiteCliff 1-6	2.42	0.96	2.51	0.01
SiteCliff 1-7	0.24	0.90	0.27	0.79
SiteCliff 1-8	1.46	0.90	1.63	0.10
SiteCliff 1-9	2.44	0.94	2.59	0.01
SiteCliff 1-10	-0.32	0.90	-0.36	0.72
SiteCliff 1-control	0.28	0.90	0.31	0.76
SiteCliff 1-control2	-0.06	0.90	-0.07	0.95
SiteCliff 6	0.00	0.90	0.01	1.00
SiteCliff 6-control	-0.16	0.90	-0.18	0.86
SiteCliff 6-control2	-0.18	0.90	-0.20	0.84
SiteM3-1	2.43	0.96	2.52	0.01
SiteM3-2	0.52	0.91	0.57	0.57
SiteM5-1	0.06	0.90	0.07	0.94
SiteM6-1	0.34	0.90	0.38	0.71
SiteM6-2	1.26	0.90	1.41	0.16
SiteM3-6-control	-0.07	0.89	-0.07	0.94
GroupLoFspp:SiteCliff 1-2	-0.70	1.27	-0.55	0.58
GroupLoFspp:SiteCliff 1-3	0.25	1.27	0.20	0.84
GroupLoFspp:SiteCliff 1-4	2.84	1.27	2.24	0.03
GroupLoFspp:SiteCliff 1-5	1.14	1.31	0.87	0.38
GroupLoFspp:SiteCliff 1-6	0.11	1.36	0.08	0.94
GroupLoFspp:SiteCliff 1-7	2.51	1.27	1.98	0.05
GroupLoFspp:SiteCliff 1-8	-0.65	1.27	-0.51	0.61
GroupLoFspp:SiteCliff 1-9	-1.41	1.33	-1.06	0.29
GroupLoFspp:SiteCliff 1-10	-1.18	1.27	-0.93	0.35
GroupLoFspp:SiteCliff 1-control	0.05	1.27	0.04	0.97
GroupLoFspp:SiteCliff 1-control2	0.32	1.27	0.25	0.80
GroupLoFspp:SiteCliff 6	-0.88	1.27	-0.70	0.49
GroupLoFspp:SiteCliff 6-control	-0.35	1.27	-0.27	0.78
GroupLoFspp:SiteCliff 6-control2	0.41	1.27	0.32	0.75
GroupLoFspp:SiteM3-1	-1.90	1.36	-1.39	0.16
GroupLoFspp:SiteM3-2	-0.12	1.29	-0.10	0.92
GroupLoFspp:SiteM5-1	-0.69	1.27	-0.54	0.59
GroupLoFspp:SiteM6-1	-0.53	1.27	-0.42	0.68
GroupLoFspp:SiteM6-2	-1.55	1.27	-1.22	0.22
GroupLoFspp:SiteM3-6-control	-0.30	1.26	-0.24	0.81

Table D10. Results from least-square means contrasts adjusting for multiple comparisons (Benjamini-Hochberg false discovery rate correction) used to assess differences in activity levels between high- and low-frequency bat species at each site surveyed during Fall 2023.

Site	Estimate	Standard Error	df	t ratio	Unadjusted p value	Adjusted p value
Cliff 1-1	-1.18	0.90	1652	-1.31	0.19	0.49
Cliff 1-2	-0.48	0.90	1652	-0.53	0.60	0.74
Cliff 1-3	-1.43	0.90	1652	-1.59	0.11	0.39
Cliff 1-4	-4.01	0.90	1652	-4.48	0.00	0.00
Cliff 1-5	-2.31	0.95	1652	-2.42	0.02	0.11
Cliff 1-6	-1.29	1.03	1652	-1.25	0.21	0.49
Cliff 1-7	-3.69	0.90	1652	-4.12	0.00	0.00
Cliff 1-8	-0.52	0.90	1652	-0.59	0.56	0.74
Cliff 1-9	0.23	0.98	1652	0.24	0.81	0.85
Cliff 1-10	0.00	0.90	1652	0.00	1.00	1.00
Cliff 1-control	-1.23	0.90	1652	-1.37	0.17	0.49
Cliff 1-control2	-1.49	0.90	1652	-1.67	0.10	0.39
Cliff 6	-0.29	0.90	1652	-0.33	0.74	0.82
Cliff 6-control	-0.83	0.90	1652	-0.92	0.36	0.62
Cliff 6-control2	-1.58	0.90	1652	-1.77	0.08	0.39
M3-1	0.72	1.03	1652	0.70	0.48	0.72
M3-2	-1.05	0.93	1652	-1.13	0.26	0.54
M5-1	-0.49	0.91	1652	-0.54	0.59	0.74
M6-1	-0.65	0.90	1652	-0.72	0.47	0.72
M6-2	0.37	0.90	1652	0.41	0.68	0.79
M3-6-control	-0.88	0.89	1652	-0.99	0.32	0.61

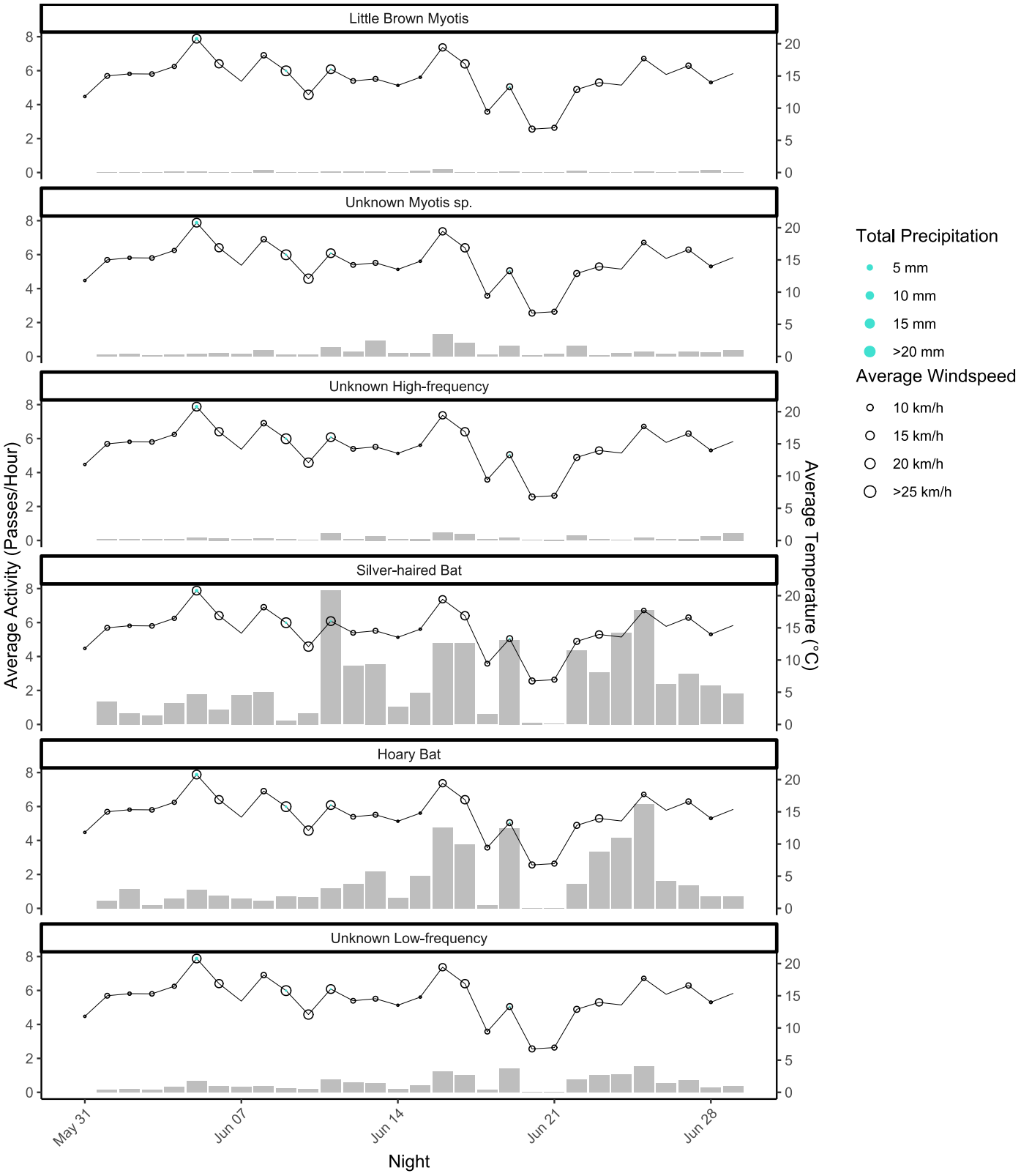


Figure D1. Activity of the most common bat species or species groups detected in the Study Area during 31 May - 29 June, 2021. The solid line denotes the average temperature (right axis) each night. The total amount of precipitation each night is represented by the size of the blue circles and the average windspeed each night is depicted by the size of the empty circles.

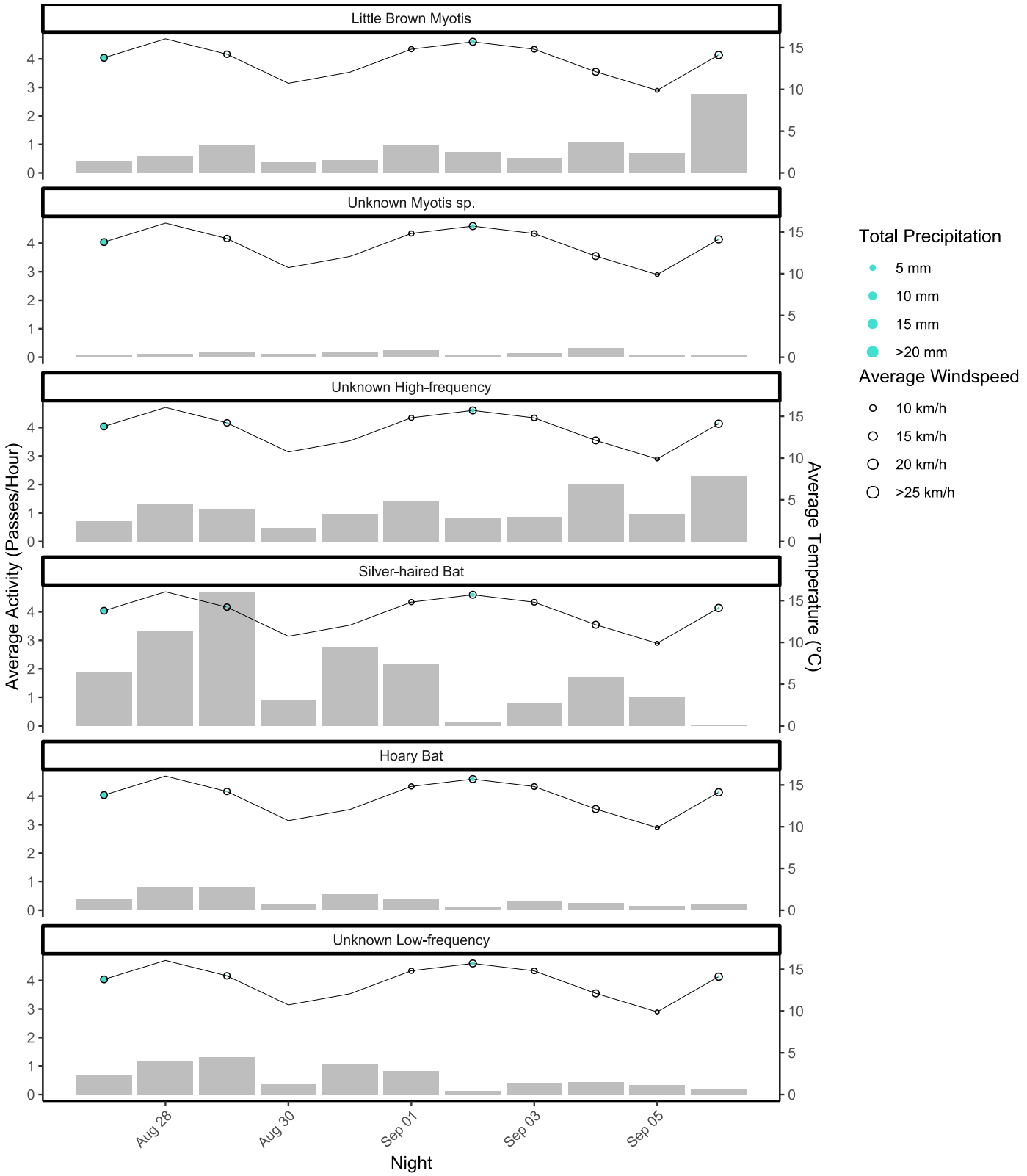


Figure D2. Activity of the most common bat species or species groups detected in the Study Area during 27 August - 6 September, 2021. The solid line denotes the average temperature (right axis) each night. The total amount of precipitation each night is represented by the size of the blue circles and the average windspeed each night is depicted by the size of the empty circles.

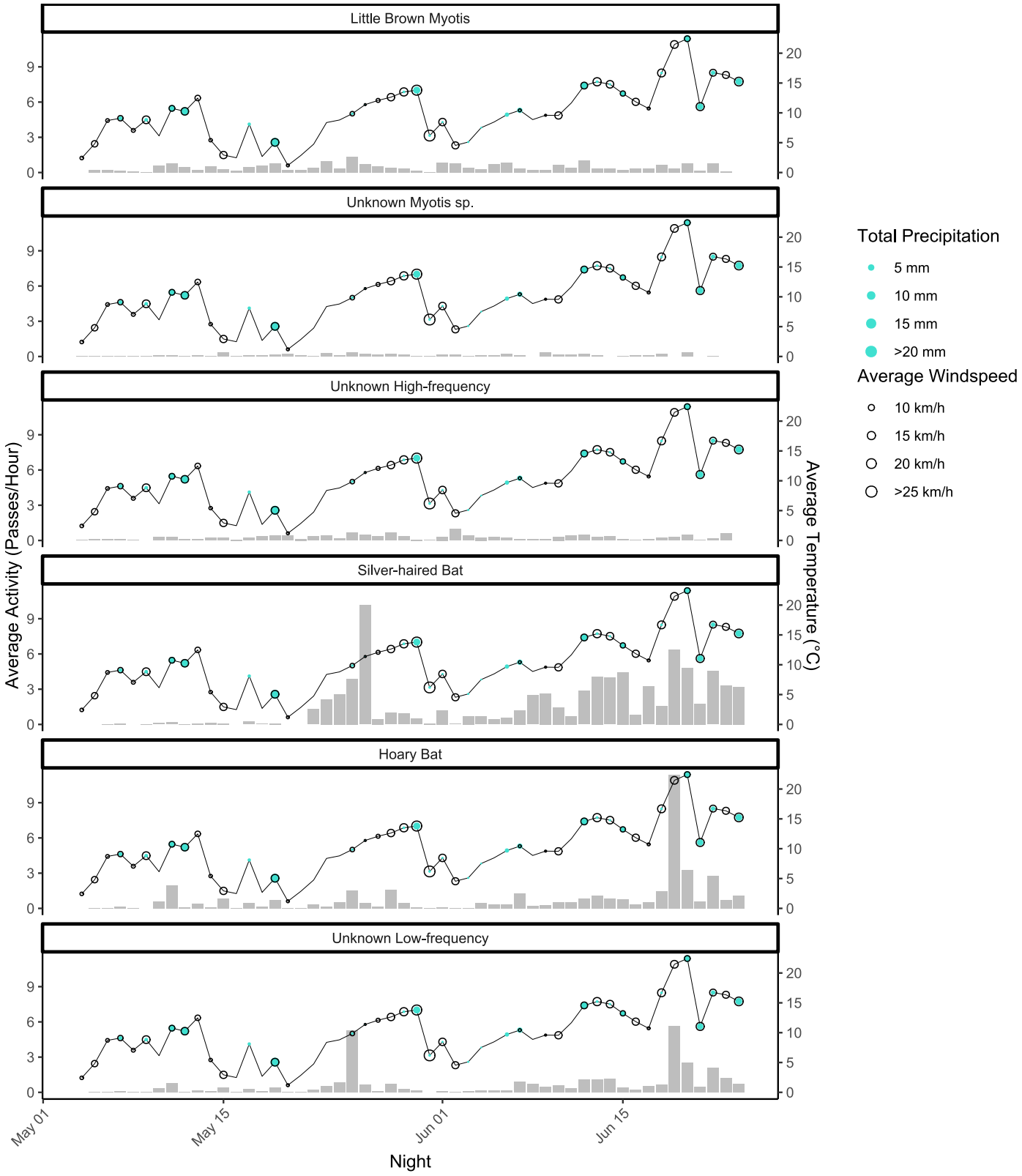


Figure D3. Activity of the most common bat species or species groups detected in the Study Area during 4 May - 24 June, 2022. The solid line denotes the average temperature (right axis) each night. The total amount of precipitation each night is represented by the size of the blue circles and the average windspeed each night is depicted by the size of the empty circles.

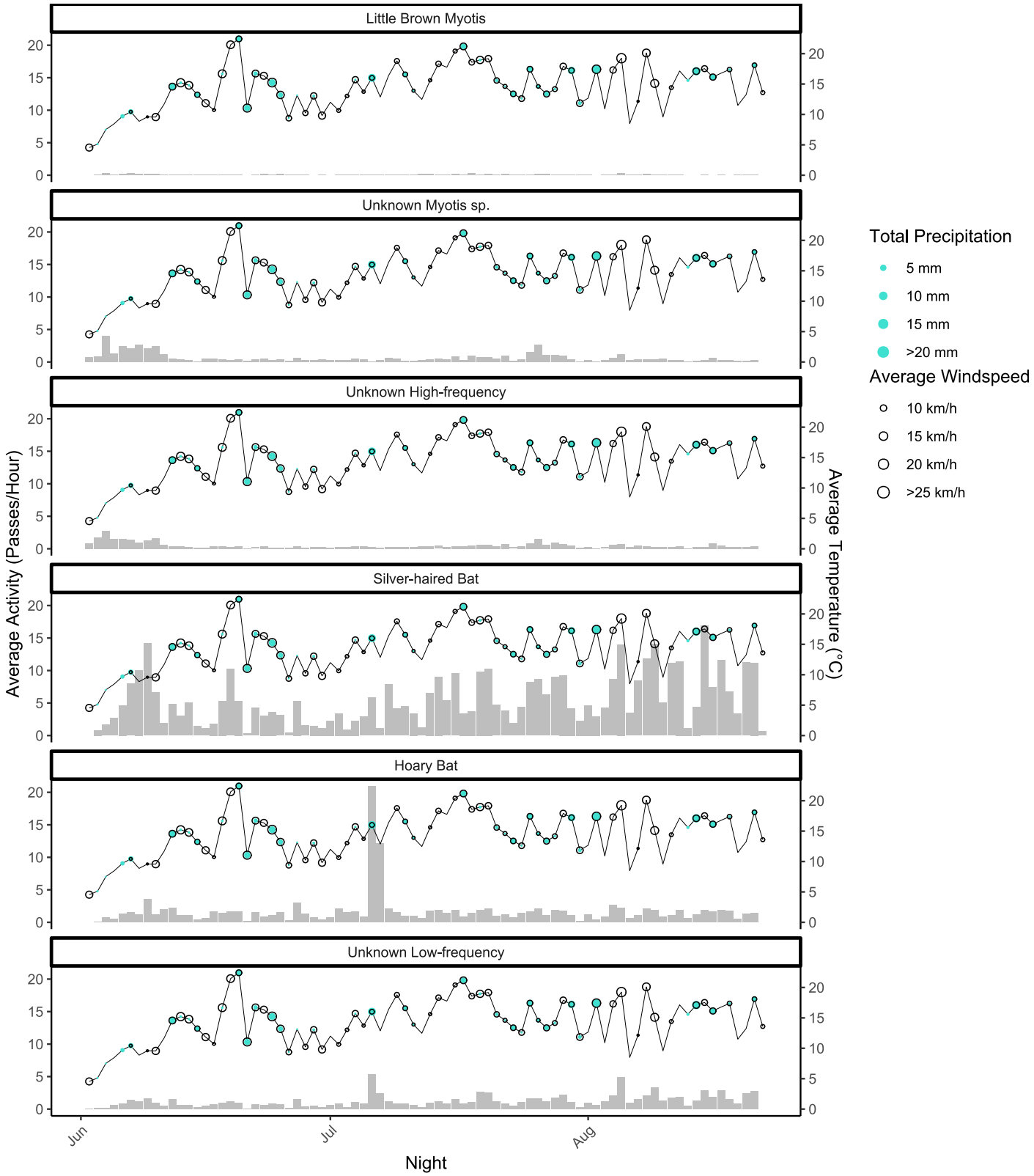


Figure D4. Activity of the most common bat species or species groups detected in the Study Area during 2 June - 22 August, 2022. The solid line denotes the average temperature (right axis) each night. The total amount of precipitation each night is represented by the size of the blue circles and the average windspeed each night is depicted by the size of the empty circles.

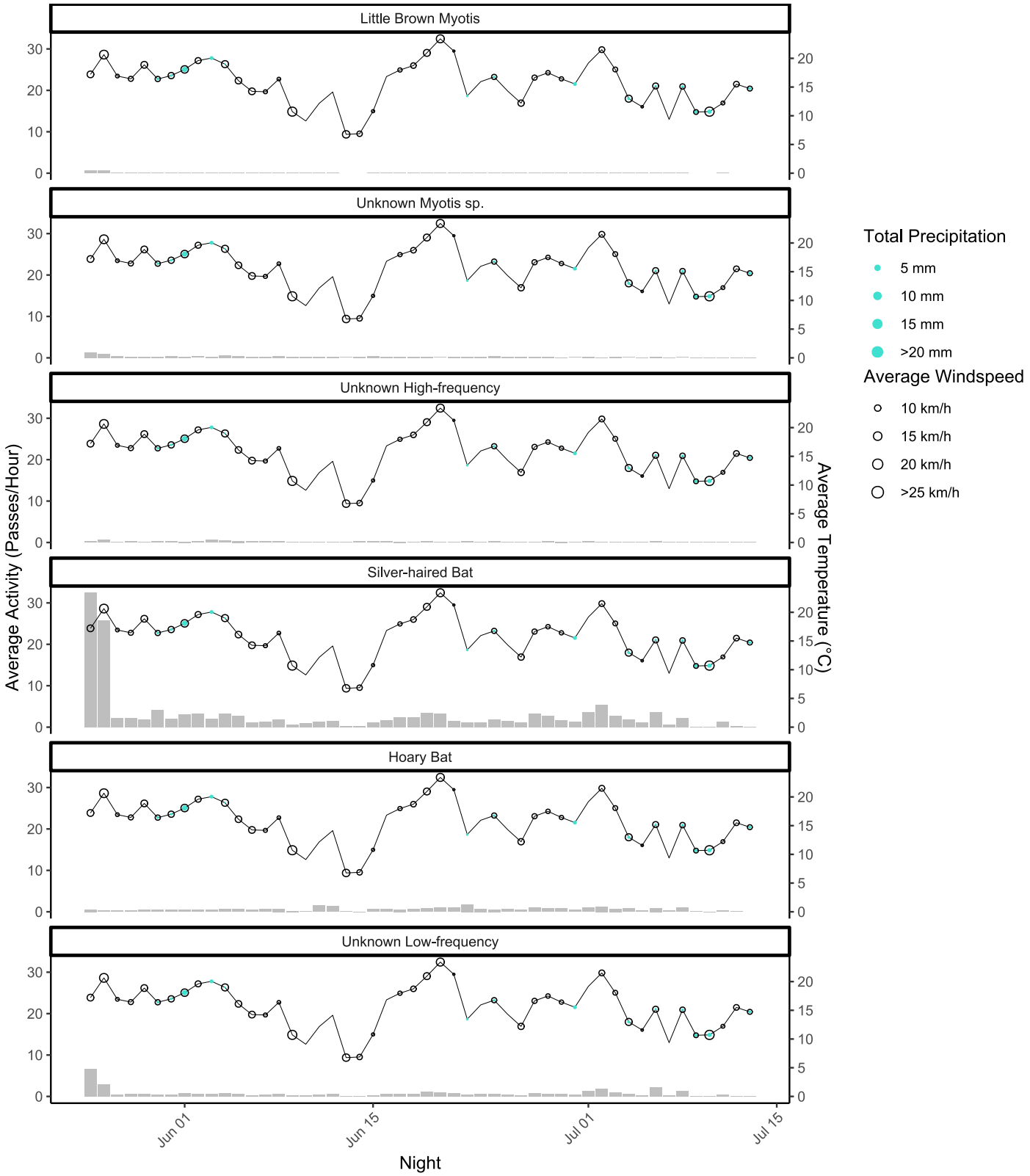


Figure D5. Activity of the most common bat species or species groups detected in the Study Area during 25 May - 13 July, 2023. The solid line denotes the average temperature (right axis) each night. The total amount of precipitation each night is represented by the size of the blue circles and the average windspeed each night is depicted by the size of the empty circles.

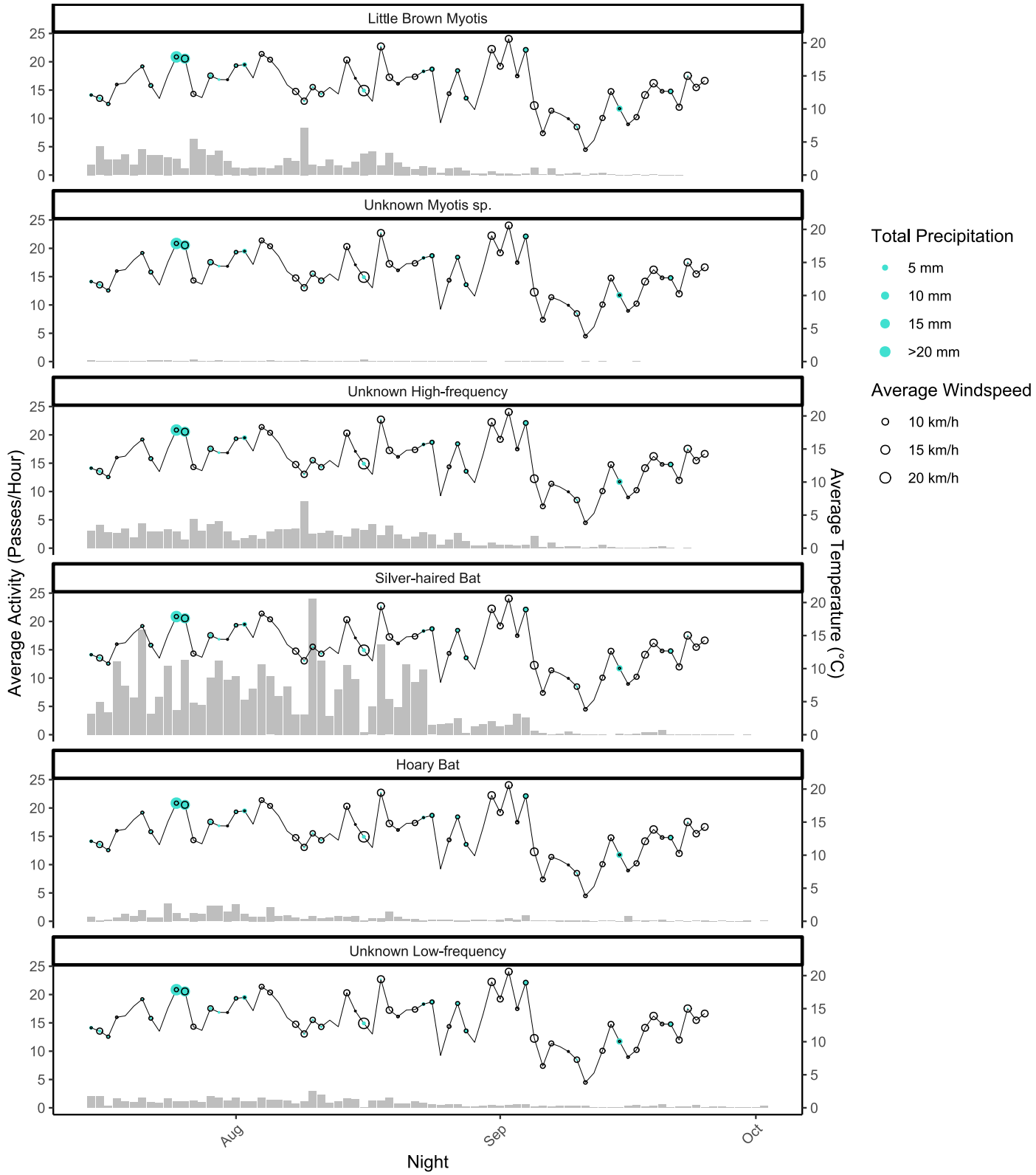
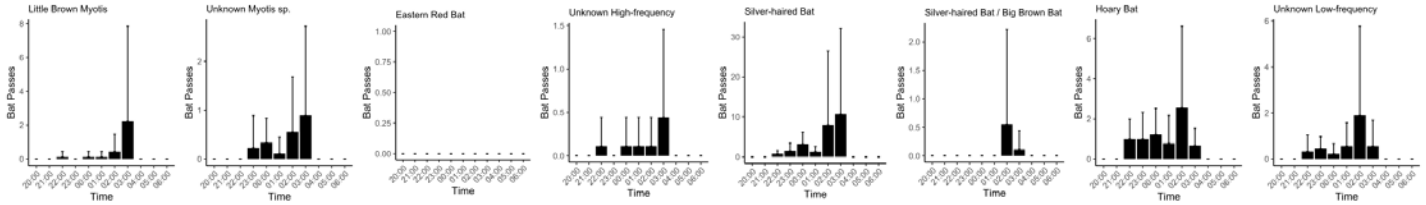
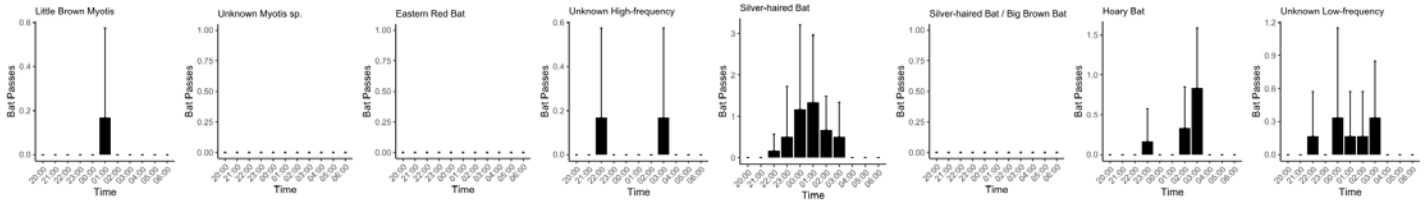


Figure D6. Activity of the most common bat species or species groups detected in the Study Area during 15 July - 25 September, 2023. The solid line denotes the average temperature (right axis) each night. The total amount of precipitation each night is represented by the size of the blue circles and the average windspeed each night is depicted by the size of the empty circles.

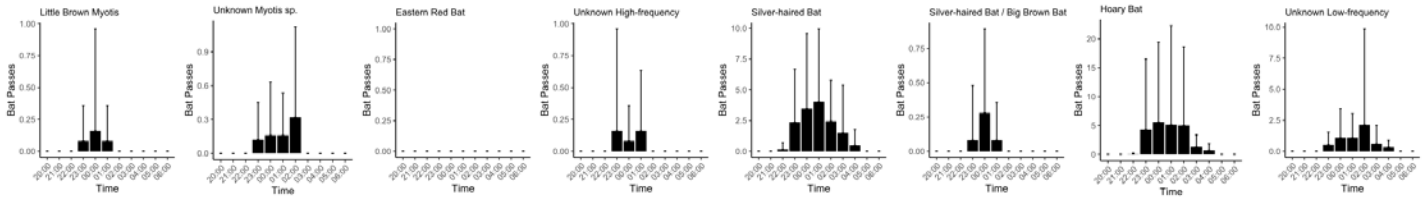
Detector: A1 Dates: 2021-06-01 to 2021-06-30



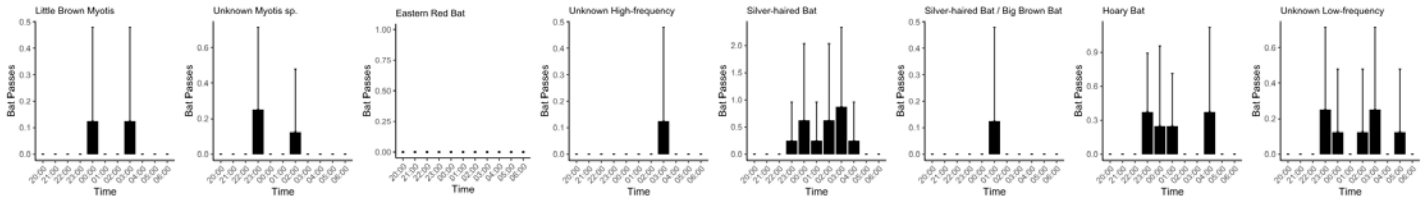
Detector: A10 Dates: 2021-06-01 to 2021-06-30



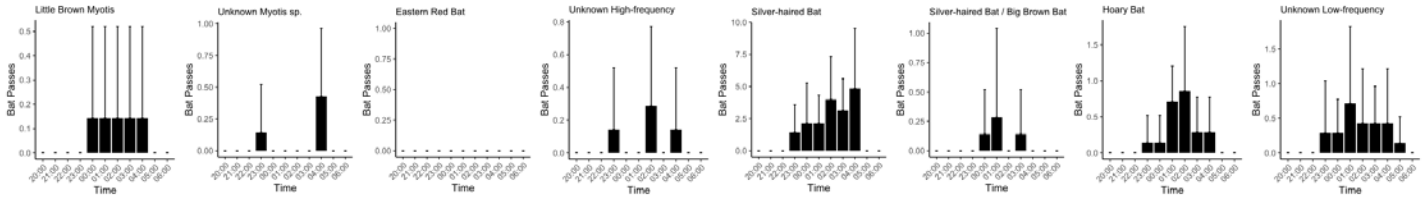
Detector: A11 Dates: 2021-06-01 to 2021-06-30



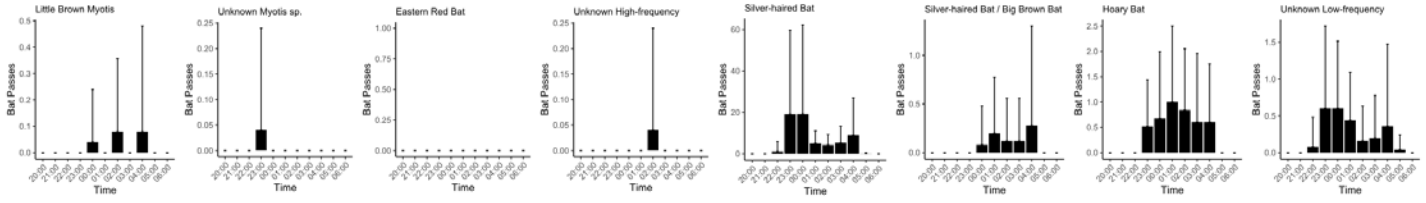
Detector: A12 Dates: 2021-06-01 to 2021-06-30



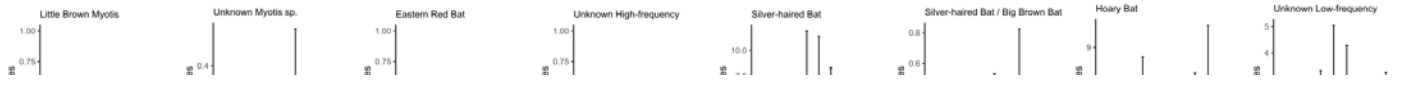
Detector: A13 Dates: 2021-06-01 to 2021-06-30

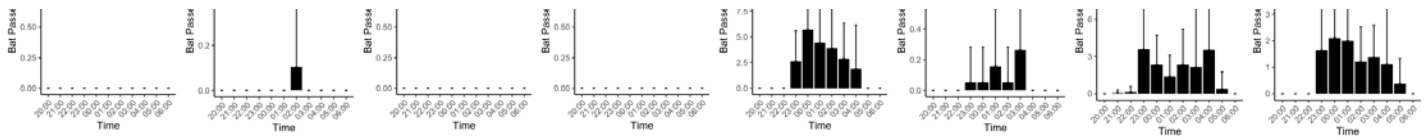


Detector: A16 Dates: 2021-06-01 to 2021-06-30

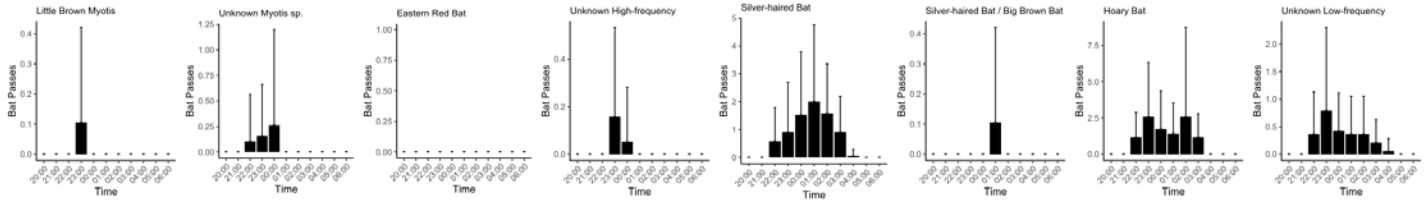


Detector: A18 Dates: 2021-06-01 to 2021-06-30

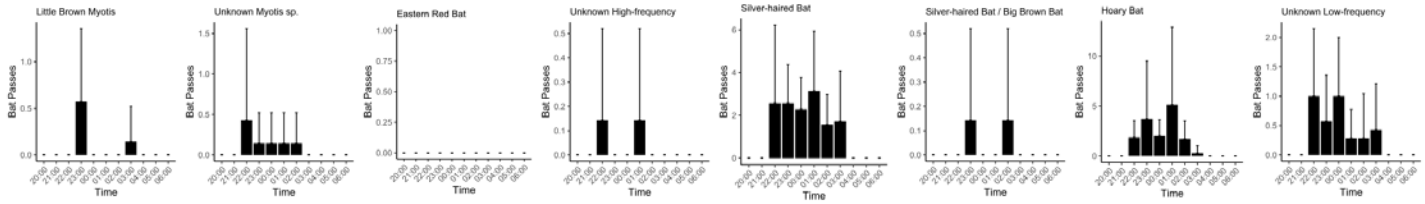




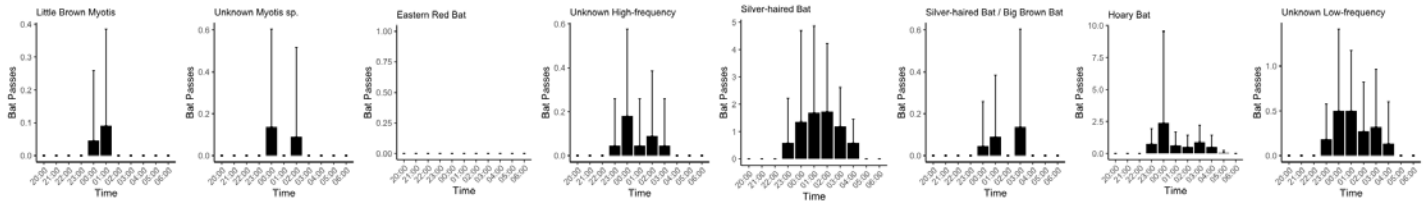
Detector: A19 Dates: 2021-06-01 to 2021-06-30



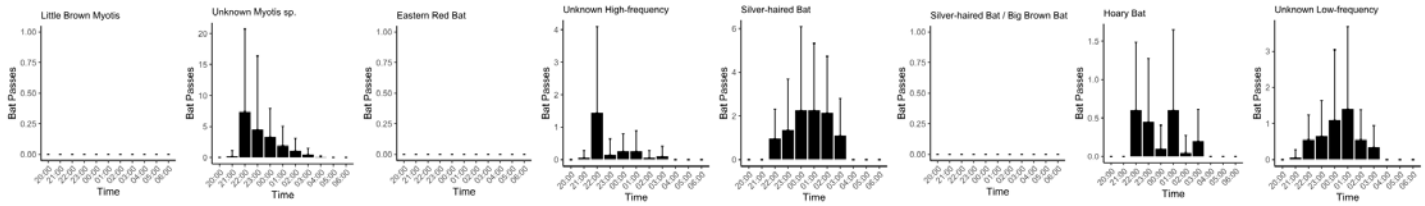
Detector: A2 Dates: 2021-06-01 to 2021-06-30



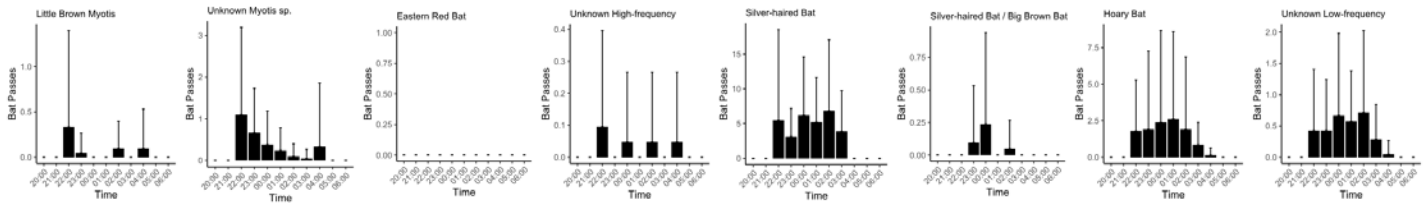
Detector: A21 Dates: 2021-06-01 to 2021-06-30



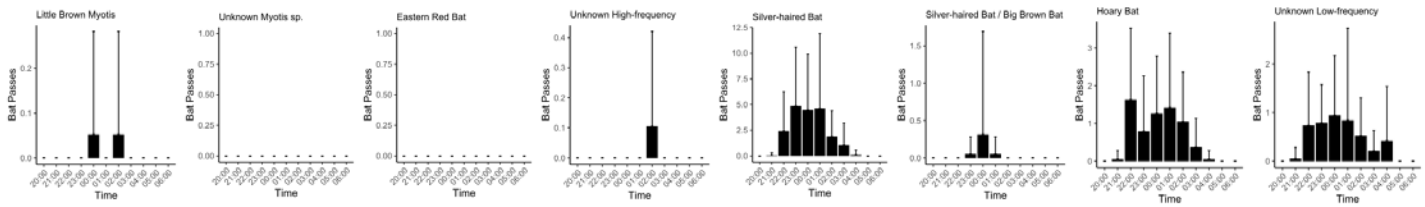
Detector: A22 Dates: 2021-06-01 to 2021-06-30



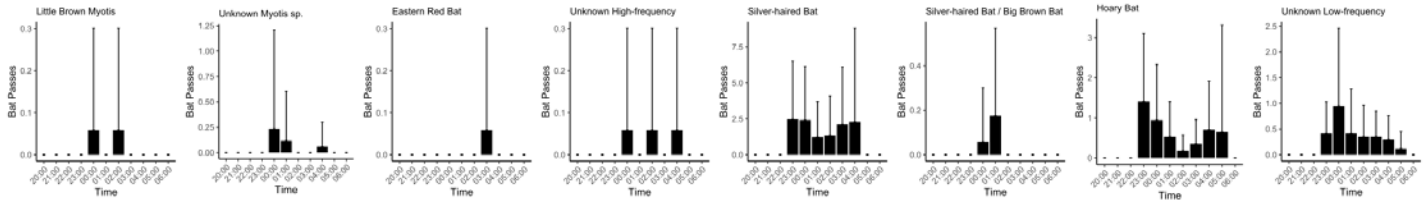
Detector: A23 Dates: 2021-06-01 to 2021-06-30



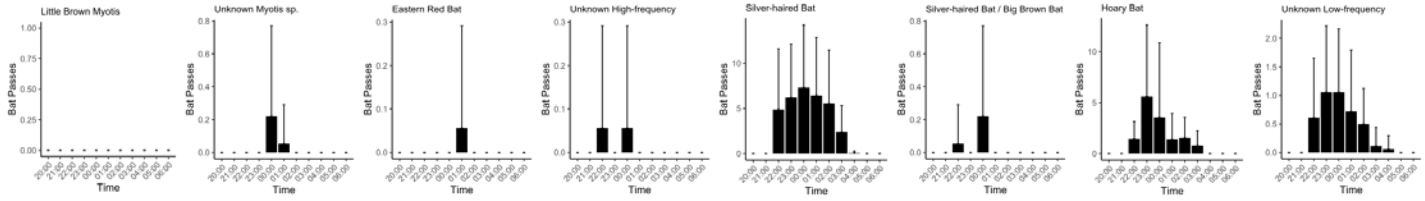
Detector: A25 Dates: 2021-06-01 to 2021-06-30



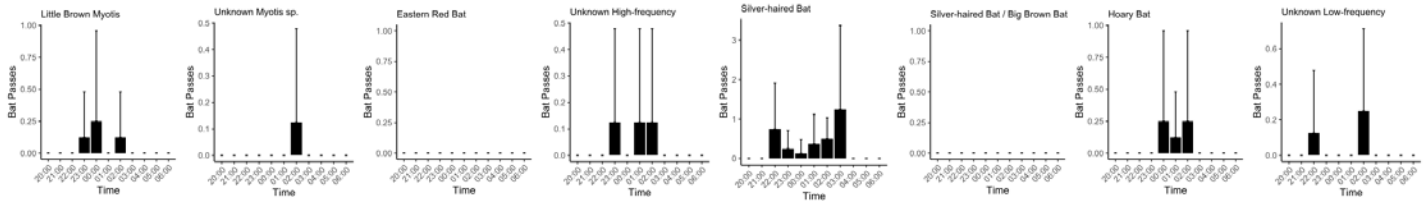
Detector: A27 Dates: 2021-06-01 to 2021-06-30



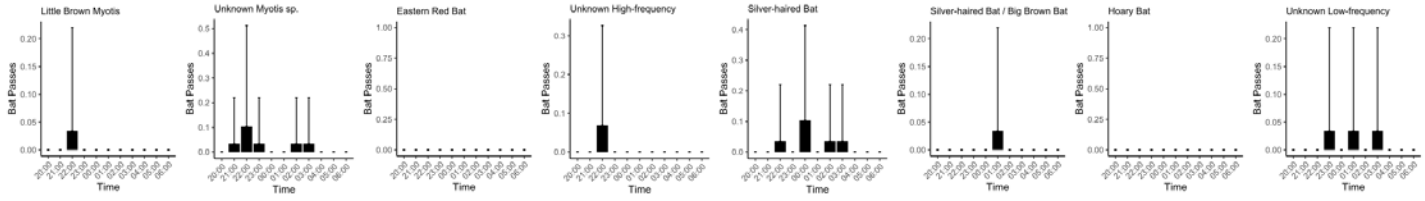
Detector: A28 Dates: 2021-06-01 to 2021-06-30



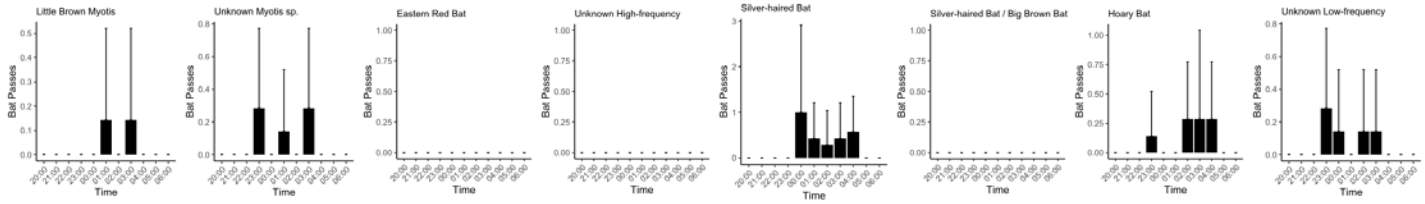
Detector: A4 Dates: 2021-06-01 to 2021-06-30



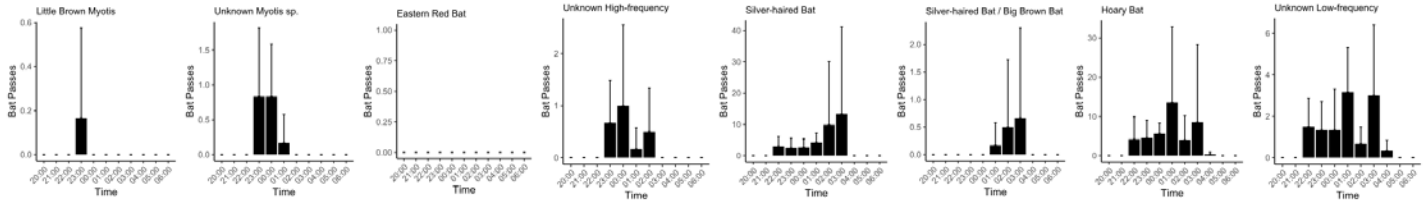
Detector: A5 Dates: 2021-06-01 to 2021-06-30



Detector: A6 Dates: 2021-06-01 to 2021-06-30

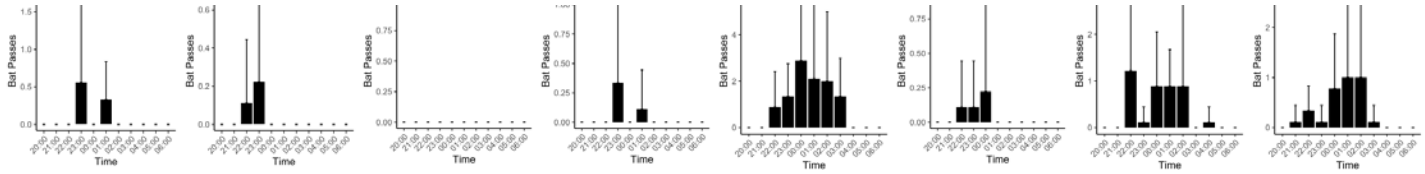


Detector: A9 Dates: 2021-06-01 to 2021-06-30

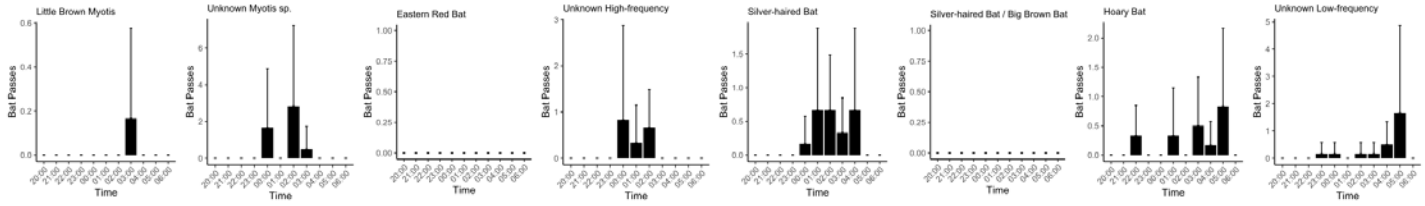


Detector: B1 Dates: 2021-06-01 to 2021-06-30

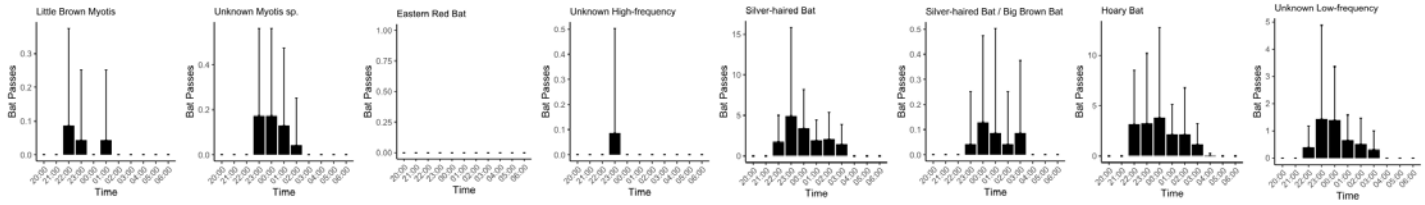




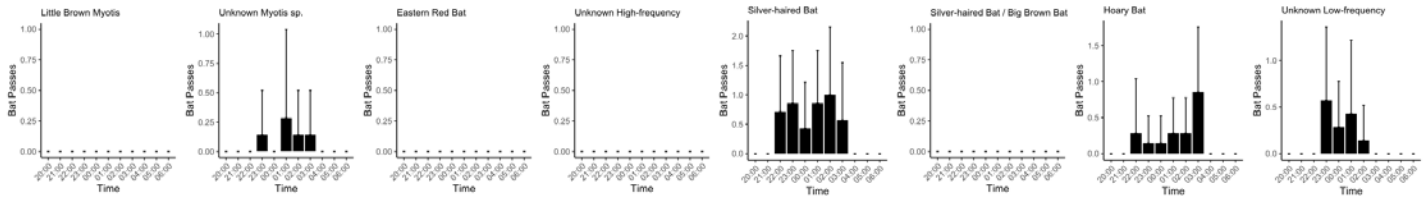
Detector: B10 Dates: 2021-06-01 to 2021-06-30



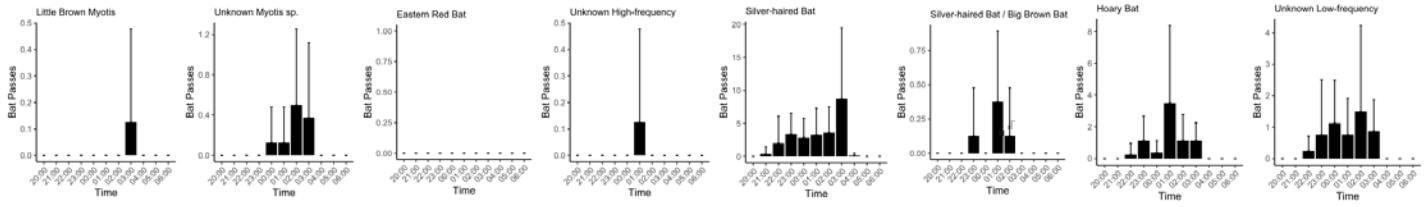
Detector: B11 Dates: 2021-06-01 to 2021-06-30



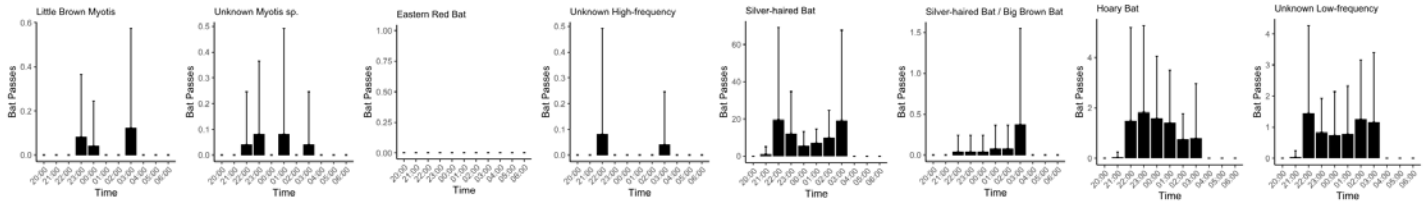
Detector: B12 Dates: 2021-06-01 to 2021-06-30



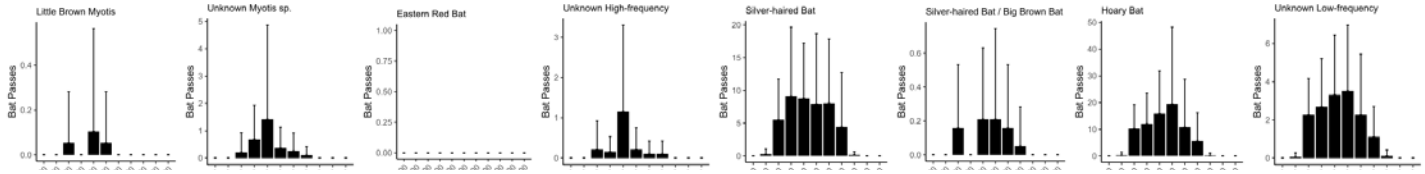
Detector: B13 Dates: 2021-06-01 to 2021-06-30



Detector: B16 Dates: 2021-06-01 to 2021-06-30

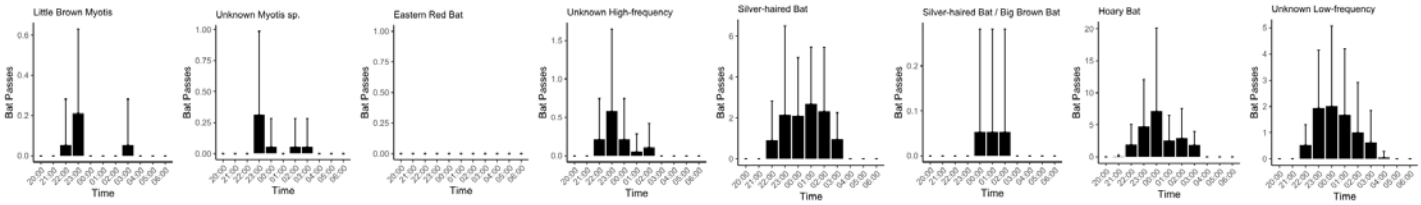


Detector: B18 Dates: 2021-06-01 to 2021-06-30

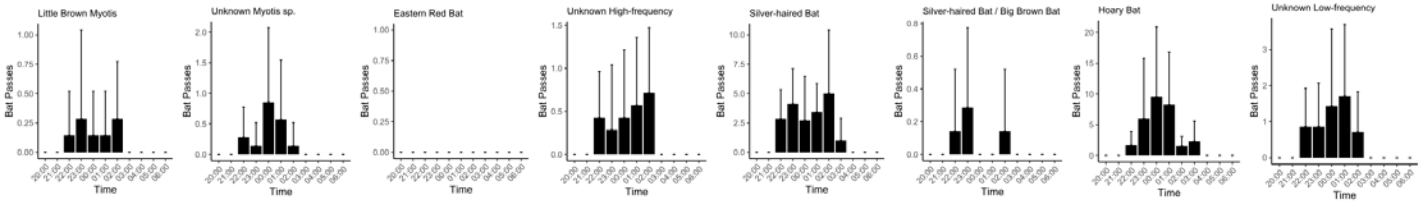




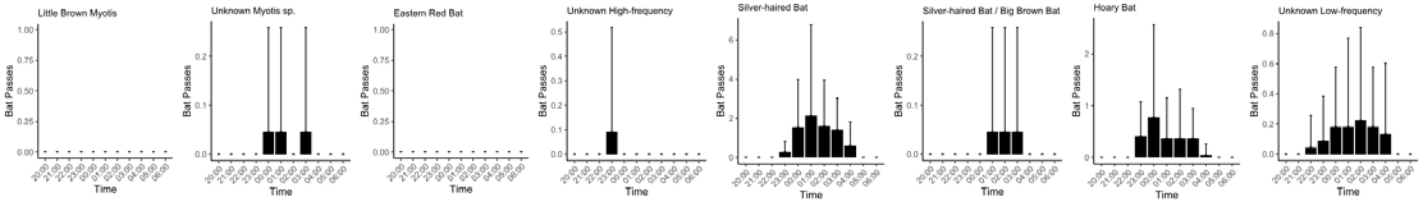
Detector: B19 Dates: 2021-06-01 to 2021-06-30



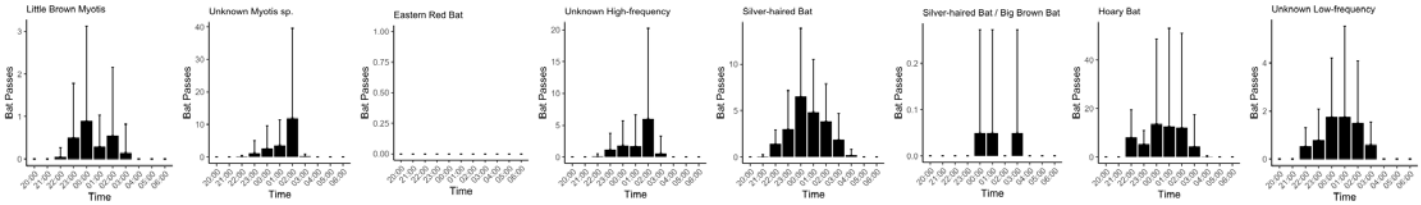
Detector: B2 Dates: 2021-06-01 to 2021-06-30



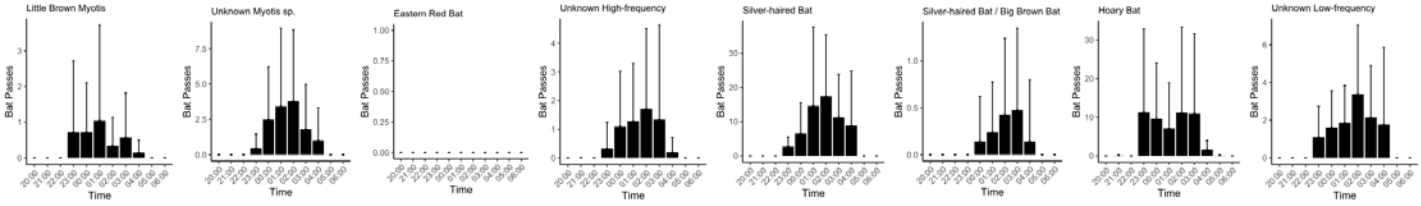
Detector: B21 Dates: 2021-06-01 to 2021-06-30



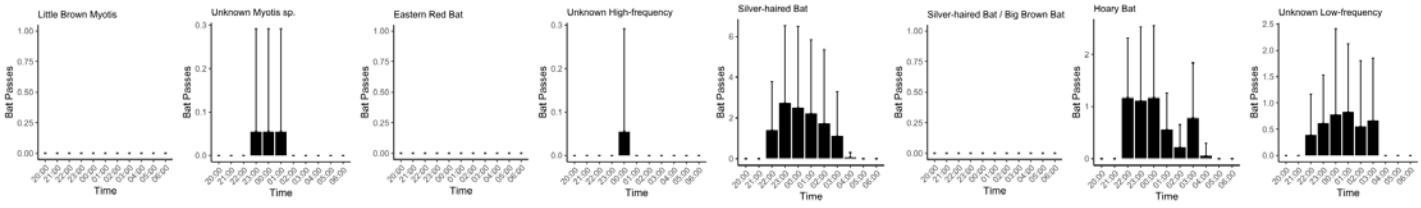
Detector: B22 Dates: 2021-06-01 to 2021-06-30



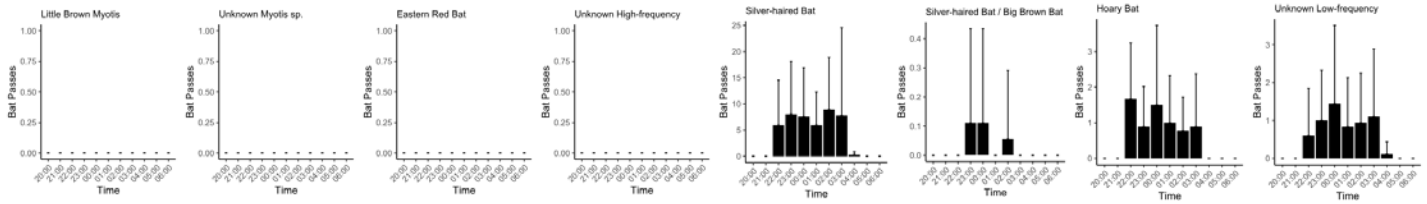
Detector: B23 Dates: 2021-06-01 to 2021-06-30



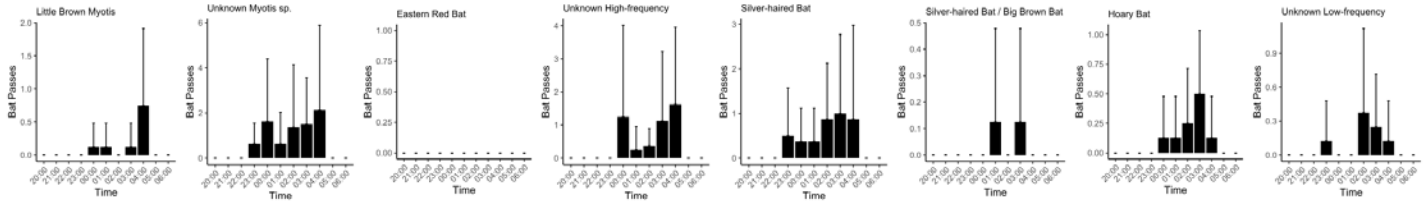
Detector: B27 Dates: 2021-06-01 to 2021-06-30



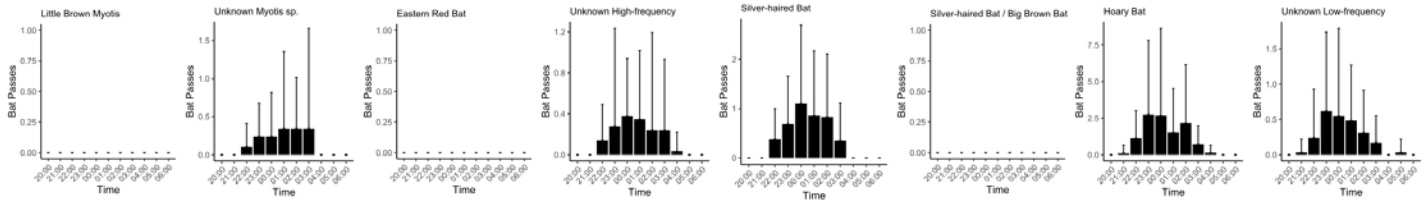
Detector: B28 Dates: 2021-06-01 to 2021-06-30



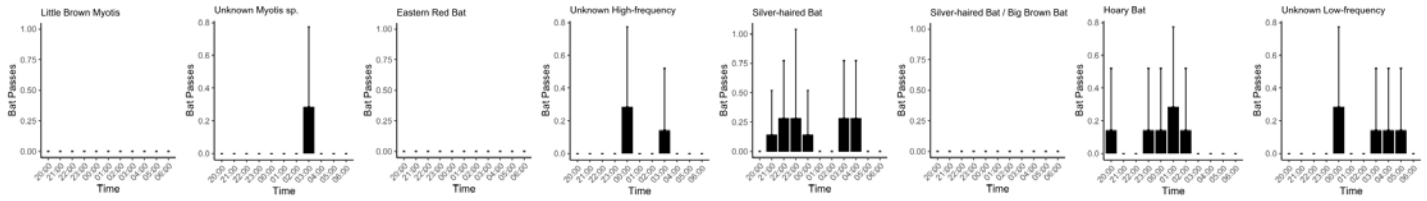
Detector: B4 Dates: 2021-06-01 to 2021-06-30



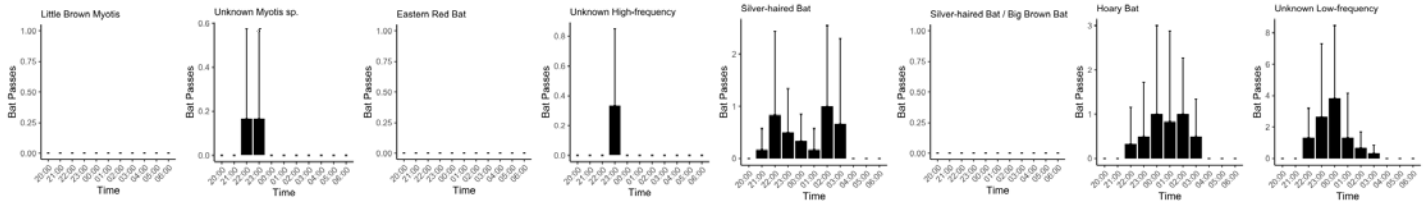
Detector: B5 Dates: 2021-06-01 to 2021-06-30



Detector: B6 Dates: 2021-06-01 to 2021-06-30



Detector: B9 Dates: 2021-06-01 to 2021-06-30



Detector: Total Dates: 2021-06-01 to 2021-06-30

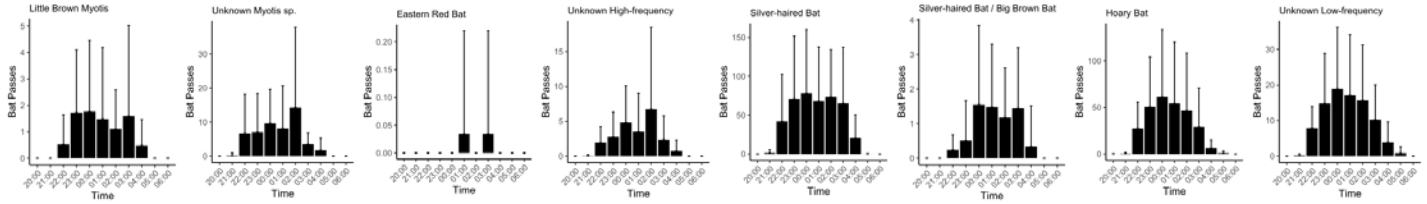
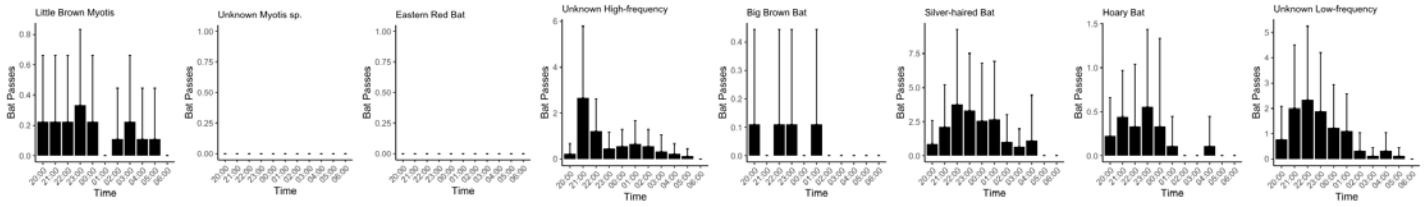
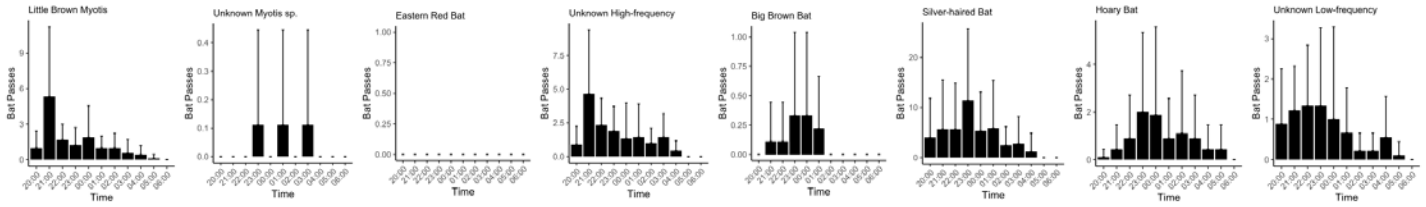


Figure D7. Average activity (+/- SD) during each hour per species for the period of 1 June - 30 June, 2021

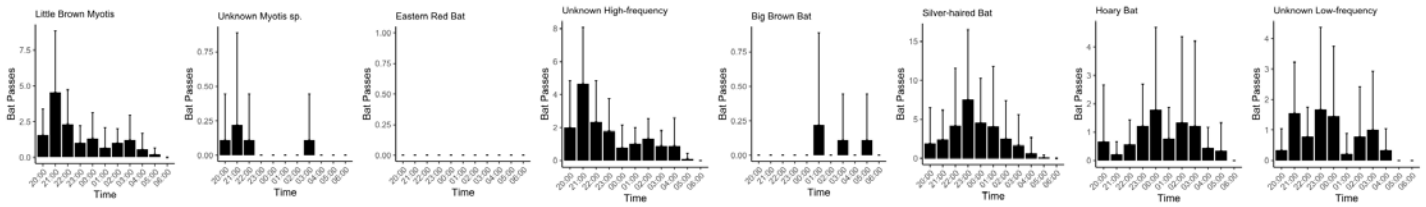
Detector: Cliff 1-1 Dates: 2021-08-27 to 2021-09-06



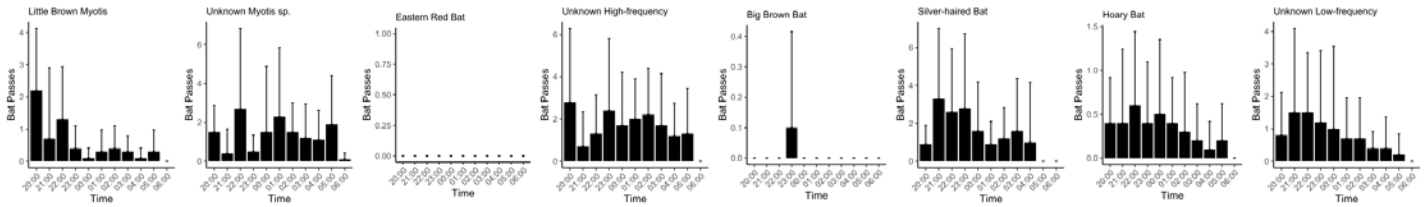
Detector: Cliff 1-2 Dates: 2021-08-27 to 2021-09-06



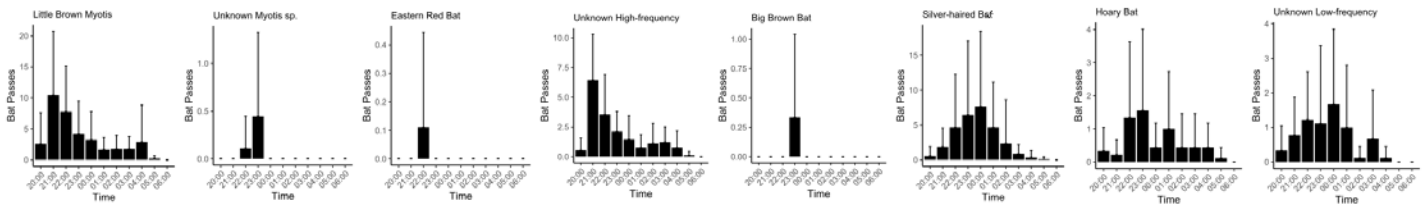
Detector: Cliff 1-3 Dates: 2021-08-27 to 2021-09-06



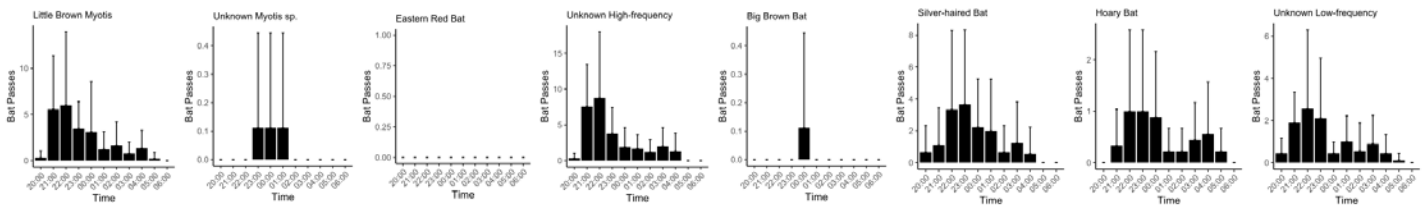
Detector: Cliff 1-4 Dates: 2021-08-27 to 2021-09-06



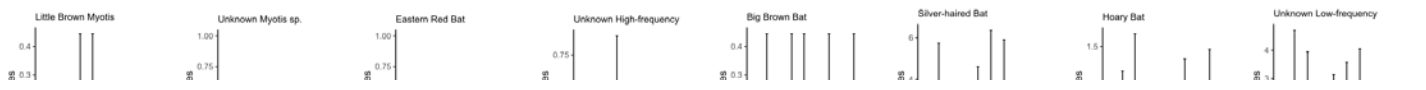
Detector: Cliff 1-5 Dates: 2021-08-27 to 2021-09-06

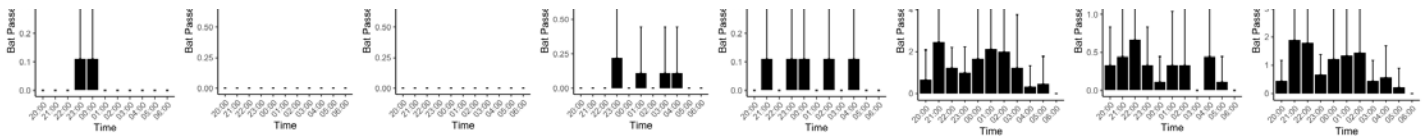


Detector: Cliff 1-6 Dates: 2021-08-27 to 2021-09-06

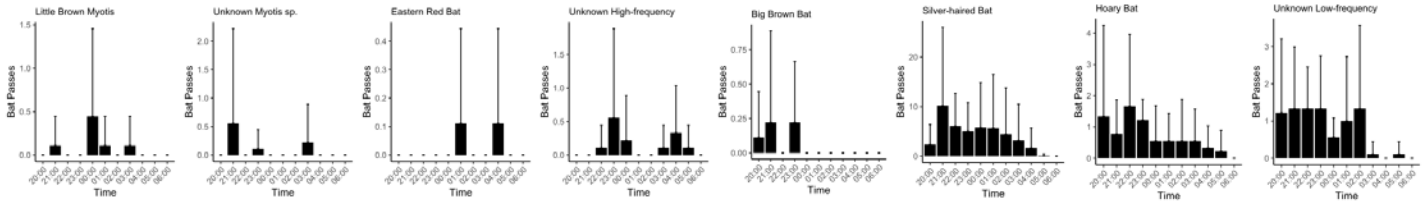


Detector: Cliff 2-1 Dates: 2021-08-27 to 2021-09-06

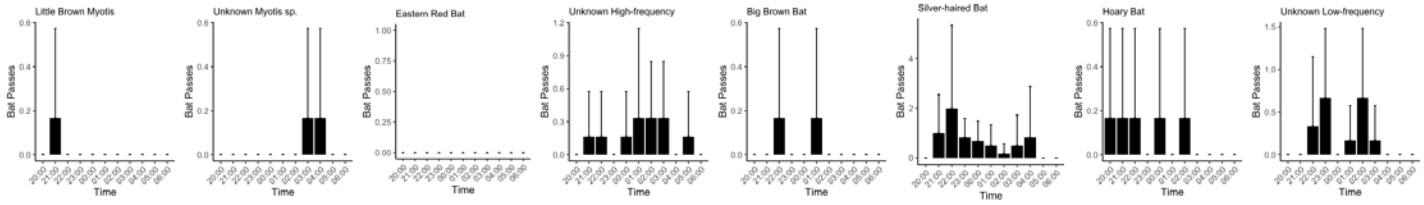




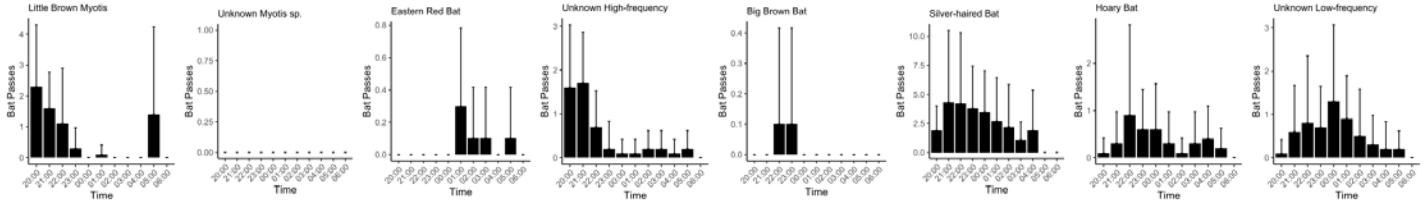
Detector: Cliff 2-2 Dates: 2021-08-27 to 2021-09-06



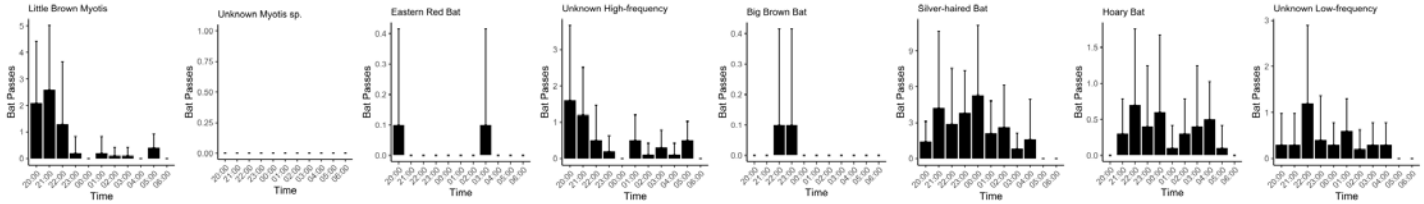
Detector: Cliff 3 Dates: 2021-08-27 to 2021-09-06



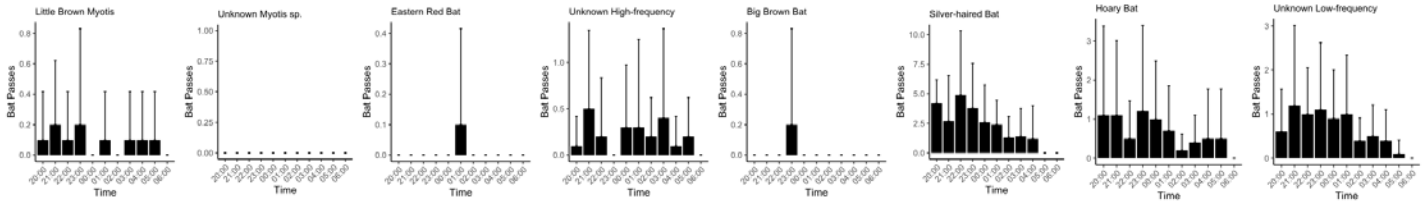
Detector: Cliff 6-control Dates: 2021-08-27 to 2021-09-06



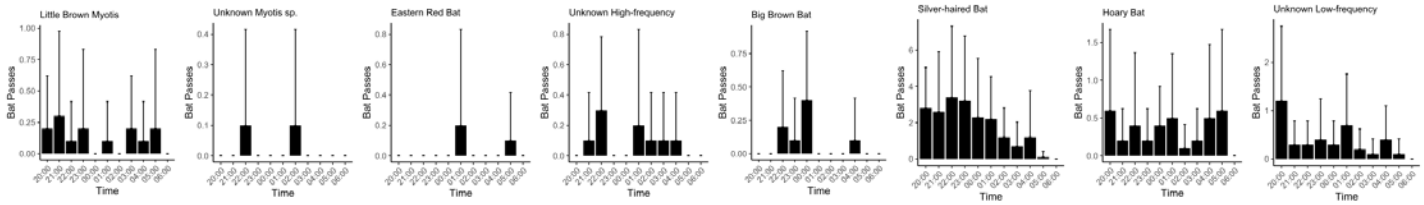
Detector: Cliff 6 Dates: 2021-08-27 to 2021-09-06



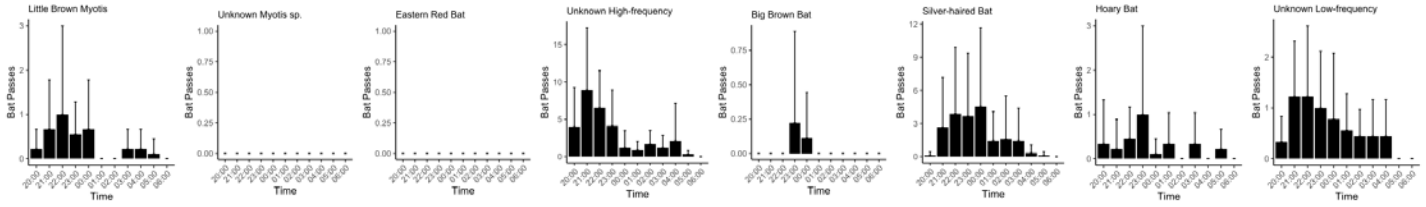
Detector: M2 control Dates: 2021-08-27 to 2021-09-06



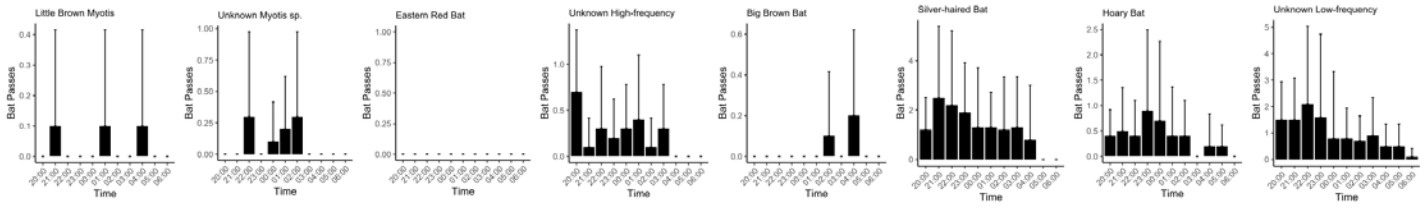
Detector: M2 Dates: 2021-08-27 to 2021-09-06



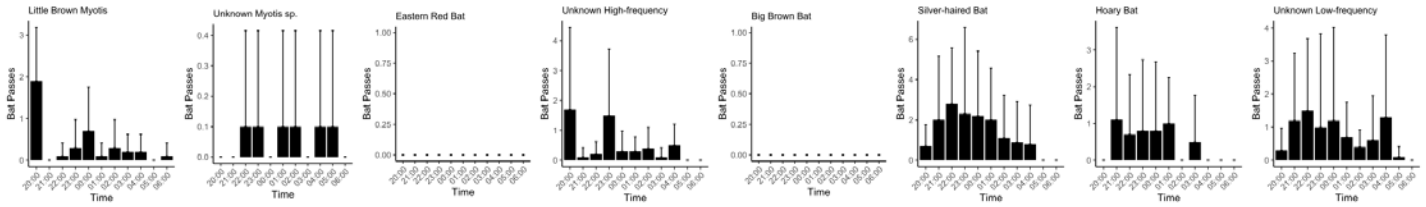
Detector: M3-1 Dates: 2021-08-27 to 2021-09-06



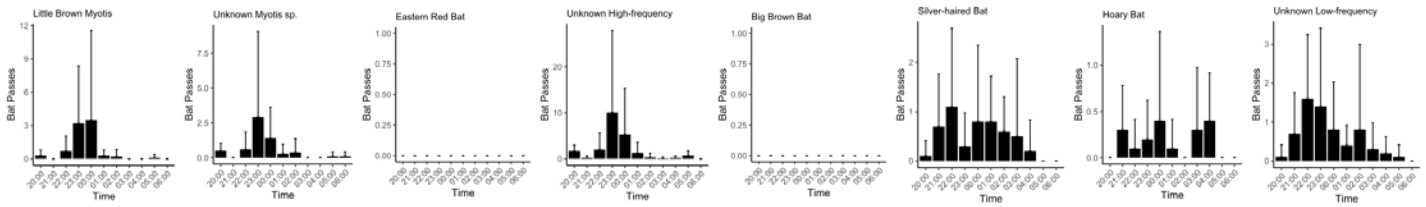
Detector: M3-2 Dates: 2021-08-27 to 2021-09-06



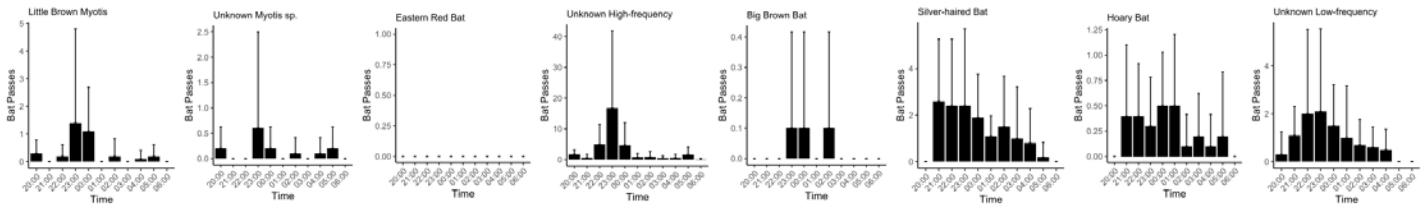
Detector: M3-6-control Dates: 2021-08-27 to 2021-09-06



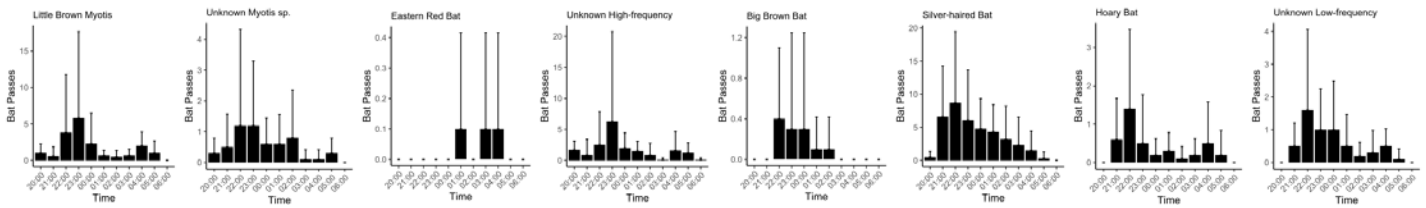
Detector: M5-1 Dates: 2021-08-27 to 2021-09-06



Detector: M6-1 Dates: 2021-08-27 to 2021-09-06



Detector: M6-2 Dates: 2021-08-27 to 2021-09-06



Detector: Total Dates: 2021-08-27 to 2021-09-06



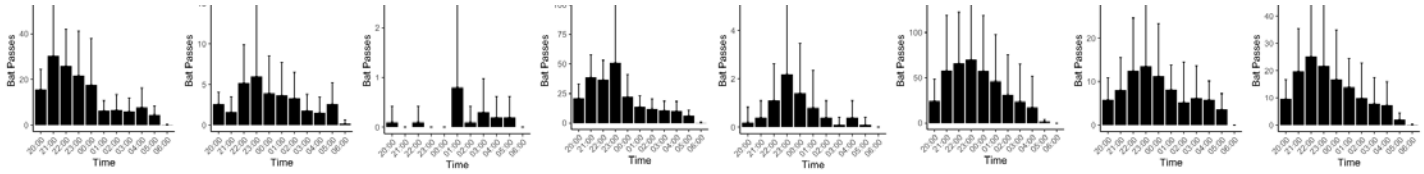
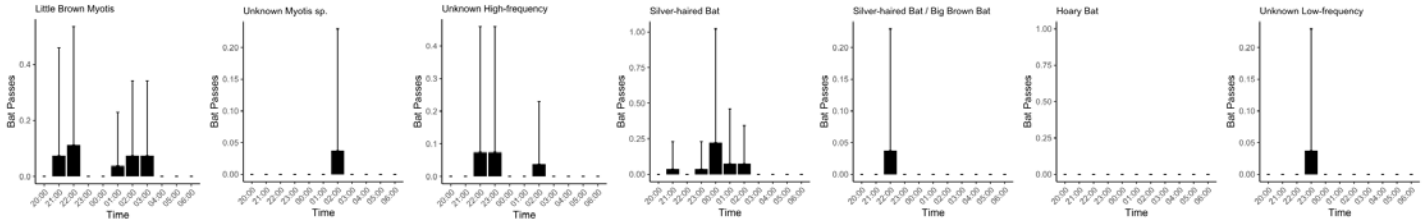
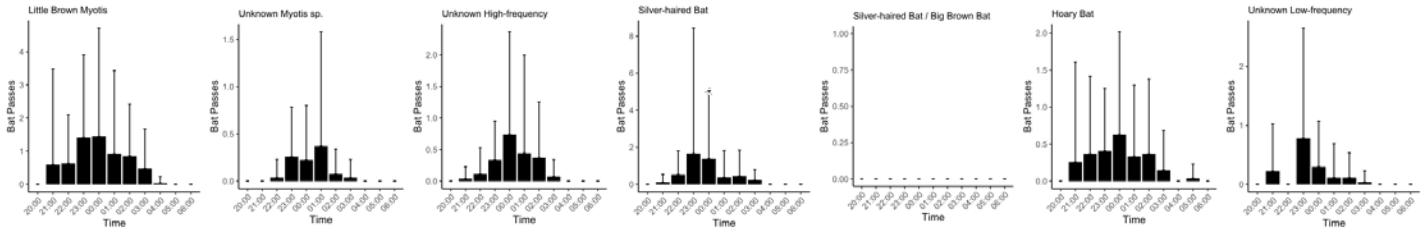


Figure D8. Average activity (+/- SD) during each hour per species for the period of 27 August - 6 September, 2021

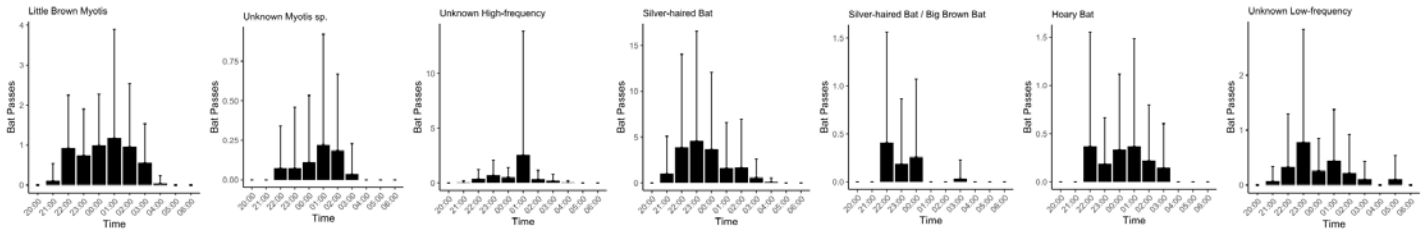
Detector: Cliff 1-1 Dates: 2022-05-01 to 2022-06-01



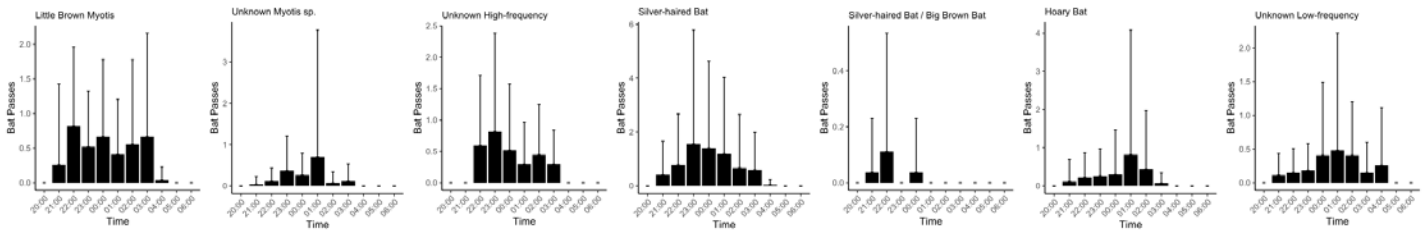
Detector: Cliff 1-10 Dates: 2022-05-01 to 2022-06-01



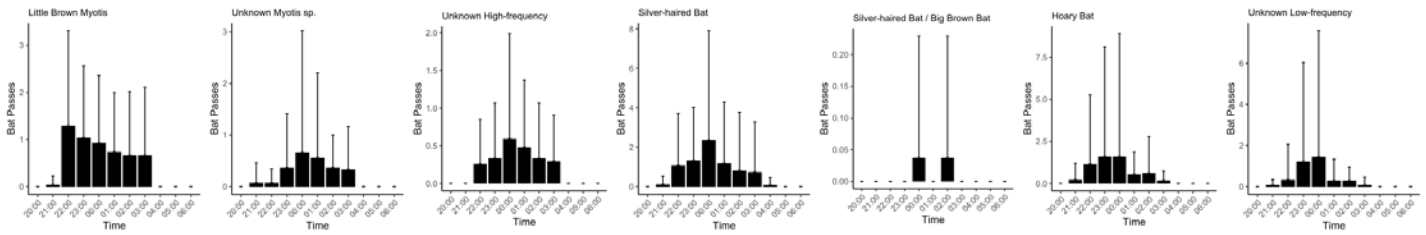
Detector: Cliff 1-2 Dates: 2022-05-01 to 2022-06-01



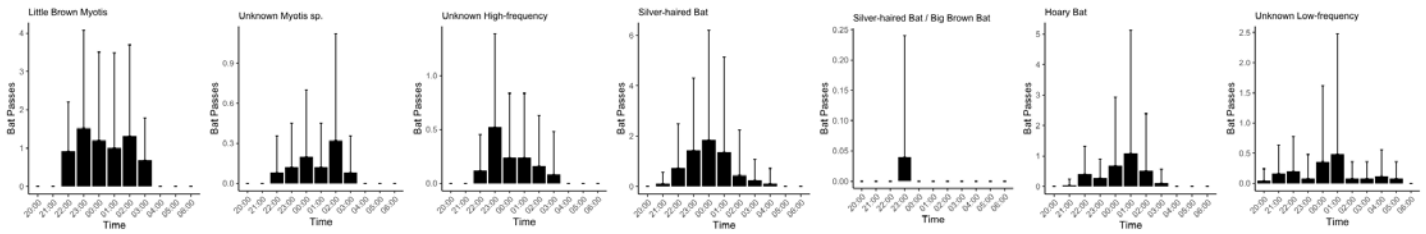
Detector: Cliff 1-3 Dates: 2022-05-01 to 2022-06-01



Detector: Cliff 1-4 Dates: 2022-05-01 to 2022-06-01

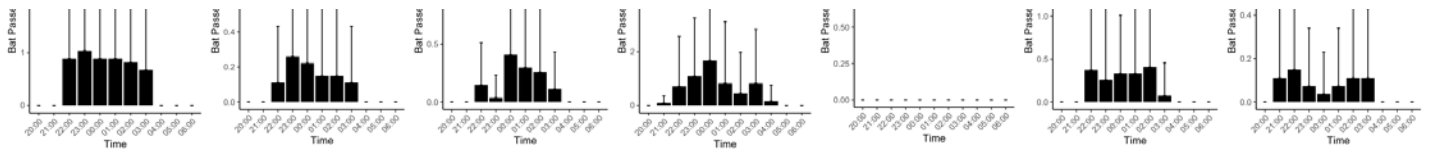


Detector: Cliff 1-5 Dates: 2022-05-01 to 2022-06-01

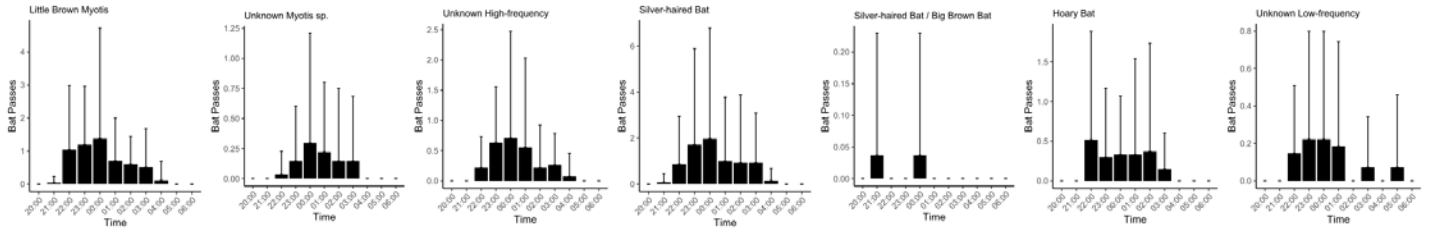


Detector: Cliff 1-6 Dates: 2022-05-01 to 2022-06-01

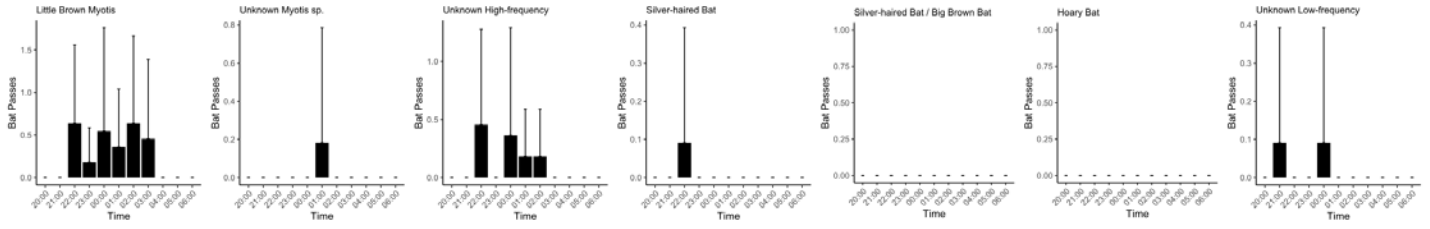




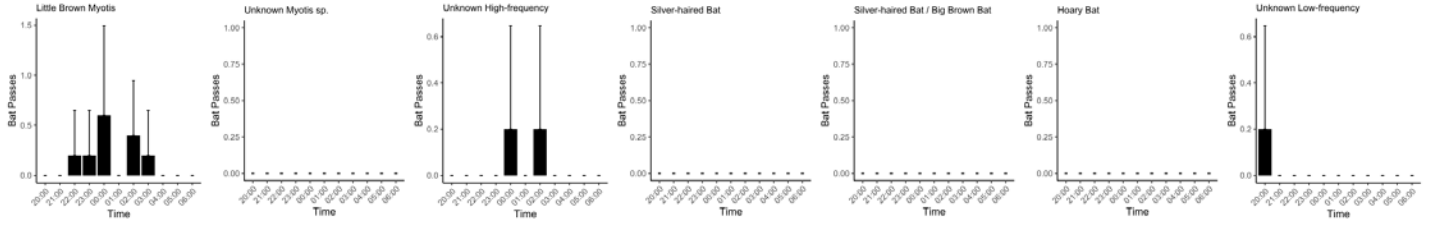
Detector: Cliff 1-7 Dates: 2022-05-01 to 2022-06-01



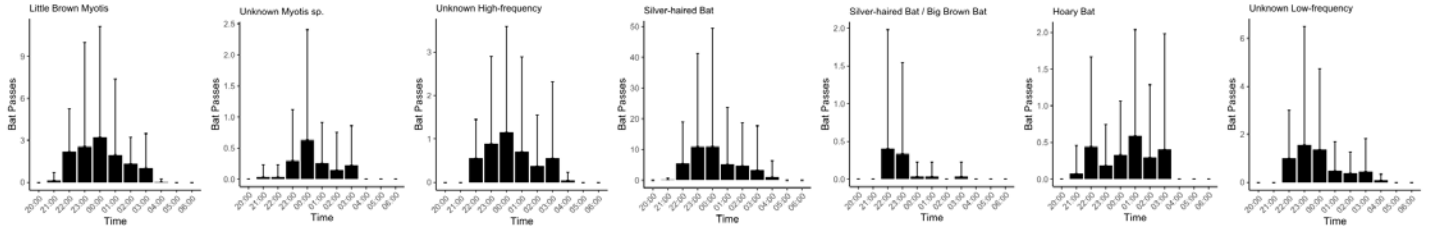
Detector: Cliff 1-8 Dates: 2022-05-01 to 2022-06-01



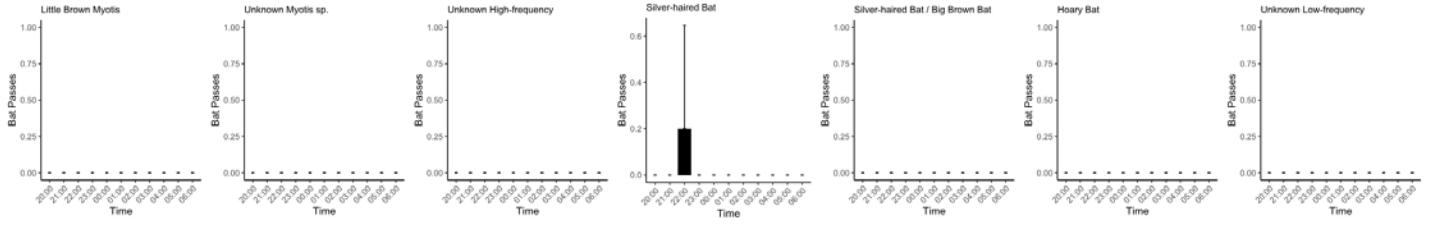
Detector: Cliff 1-9 Dates: 2022-05-01 to 2022-06-01



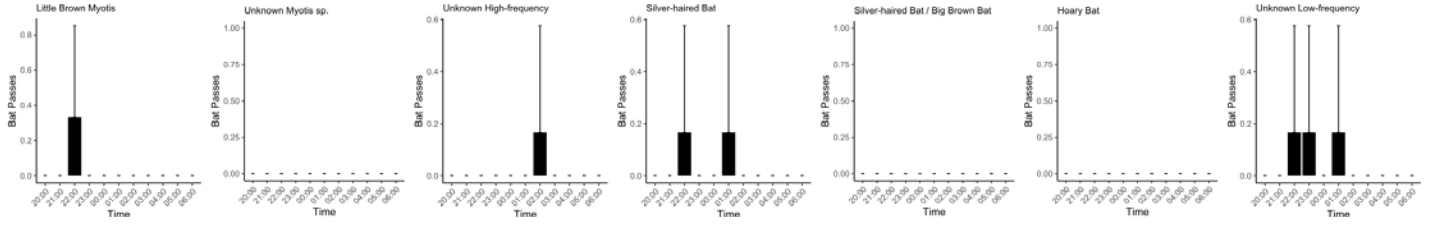
Detector: Cliff 1-control Dates: 2022-05-01 to 2022-06-01



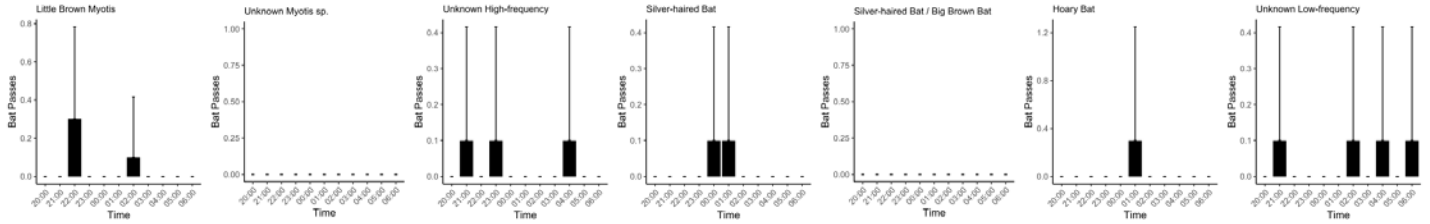
Detector: Cliff 2-1 Dates: 2022-05-01 to 2022-06-01



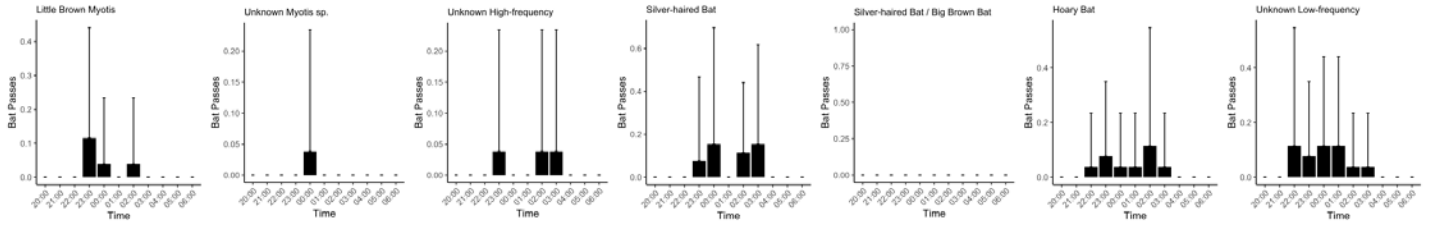
Detector: Cliff 2-2 Dates: 2022-05-01 to 2022-06-01



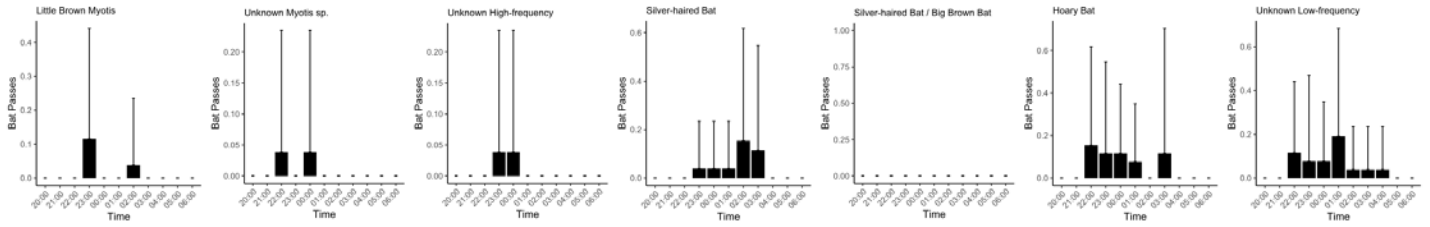
Detector: Cliff 2-control Dates: 2022-05-01 to 2022-06-01



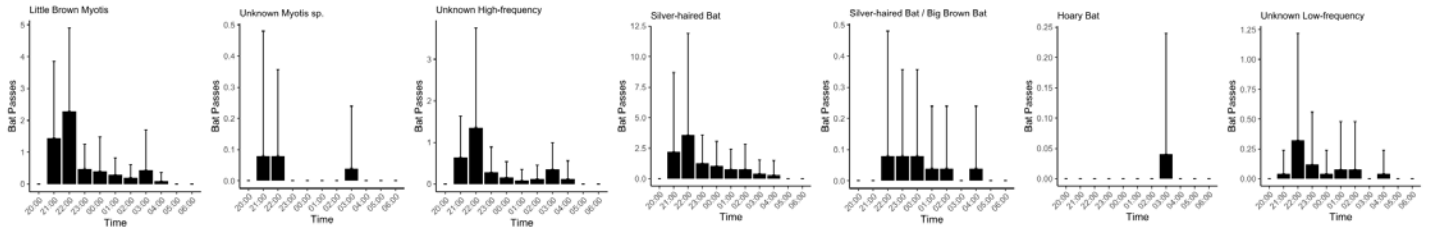
Detector: Cliff 3-control Dates: 2022-05-01 to 2022-06-01



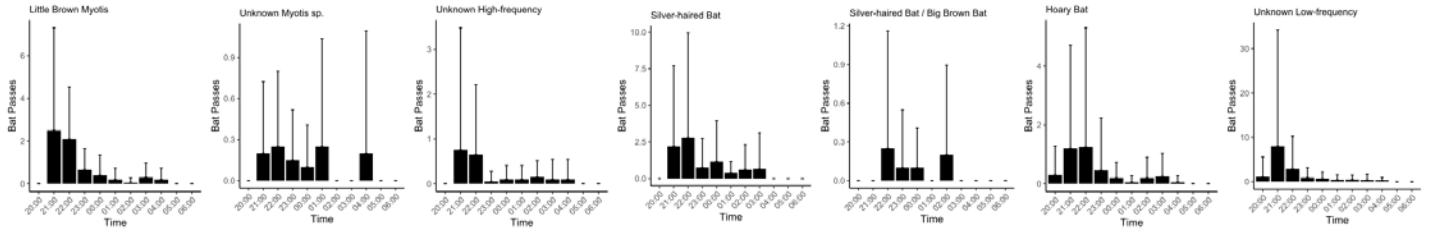
Detector: Cliff 3 Dates: 2022-05-01 to 2022-06-01



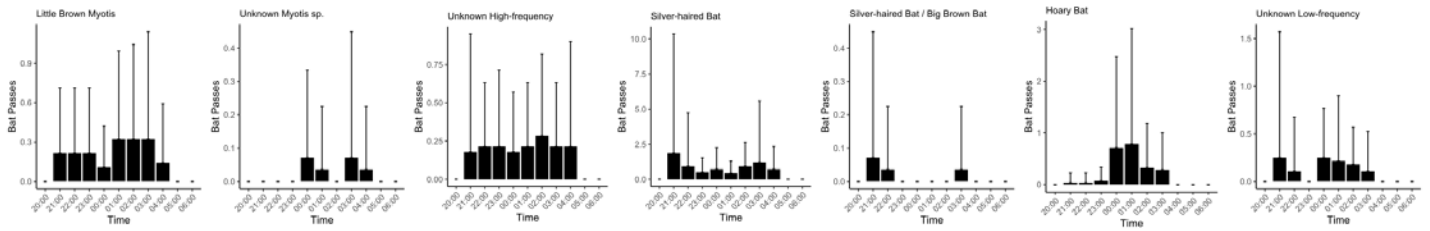
Detector: Cliff 6-control Dates: 2022-05-01 to 2022-06-01



Detector: Cliff 6 Dates: 2022-05-01 to 2022-06-01

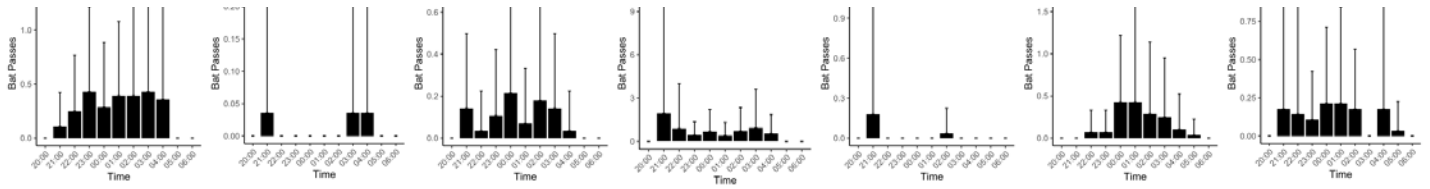


Detector: M2 control Dates: 2022-05-01 to 2022-06-01

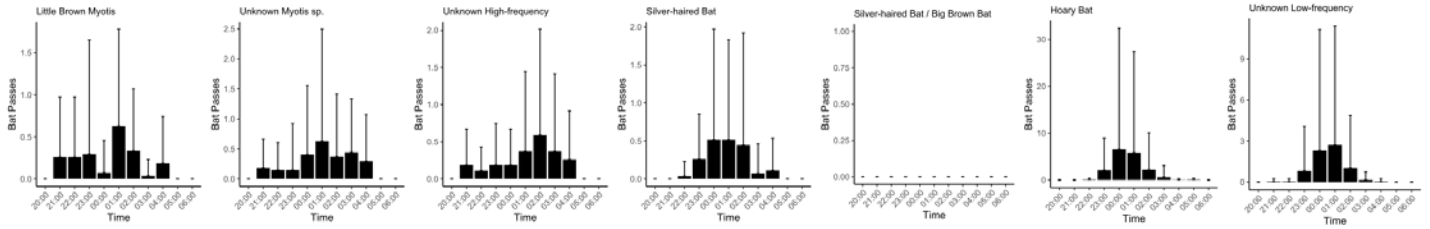


Detector: M2 Dates: 2022-05-01 to 2022-06-01

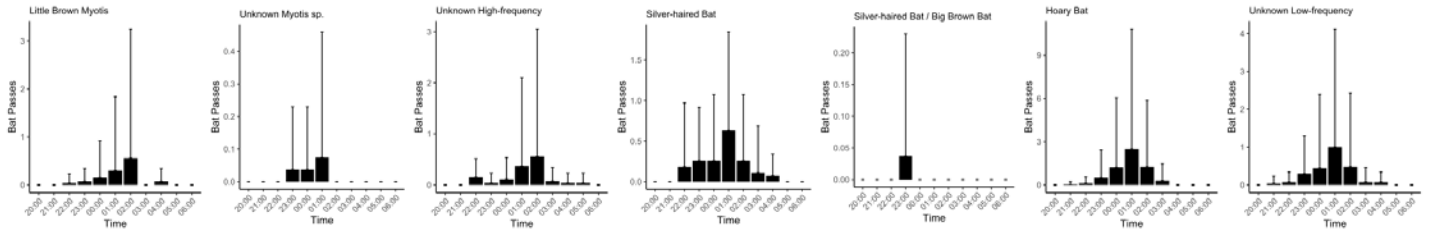




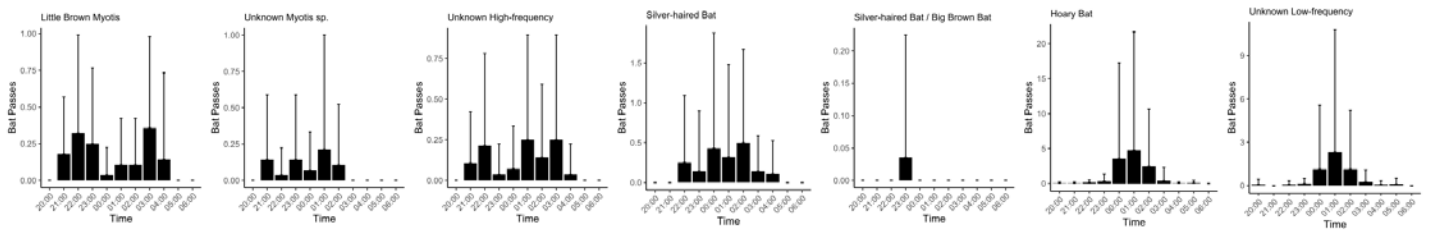
Detector: M3-1 Dates: 2022-05-01 to 2022-06-01



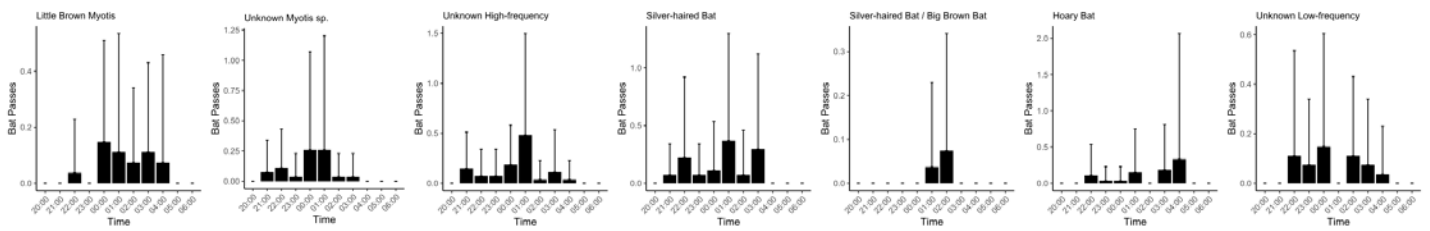
Detector: M3-2 Dates: 2022-05-01 to 2022-06-01



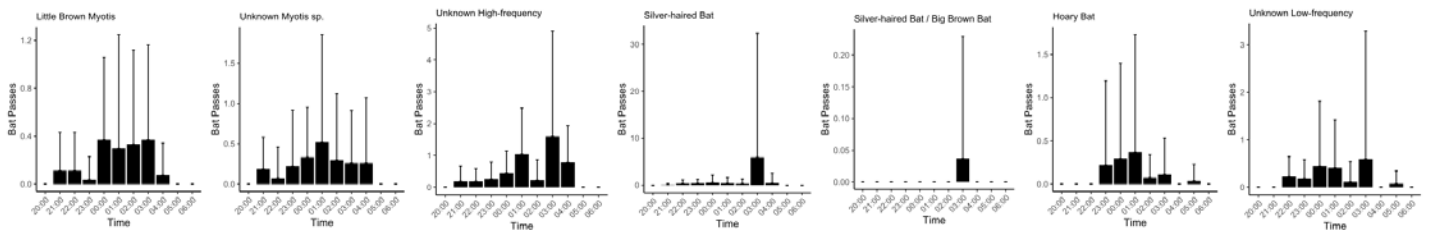
Detector: M3-6-control Dates: 2022-05-01 to 2022-06-01



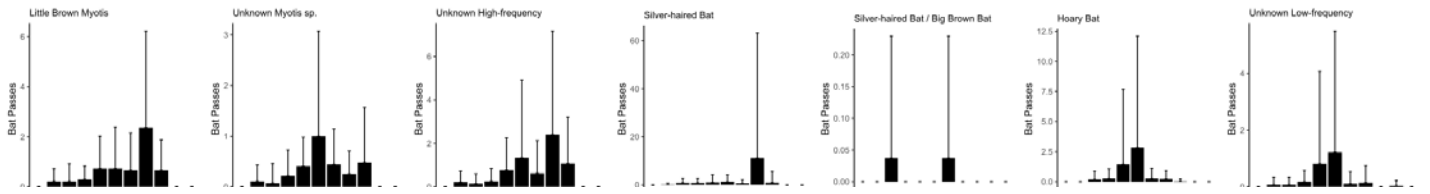
Detector: M5-1 Dates: 2022-05-01 to 2022-06-01



Detector: M6-1 Dates: 2022-05-01 to 2022-06-01



Detector: M6-2 Dates: 2022-05-01 to 2022-06-01



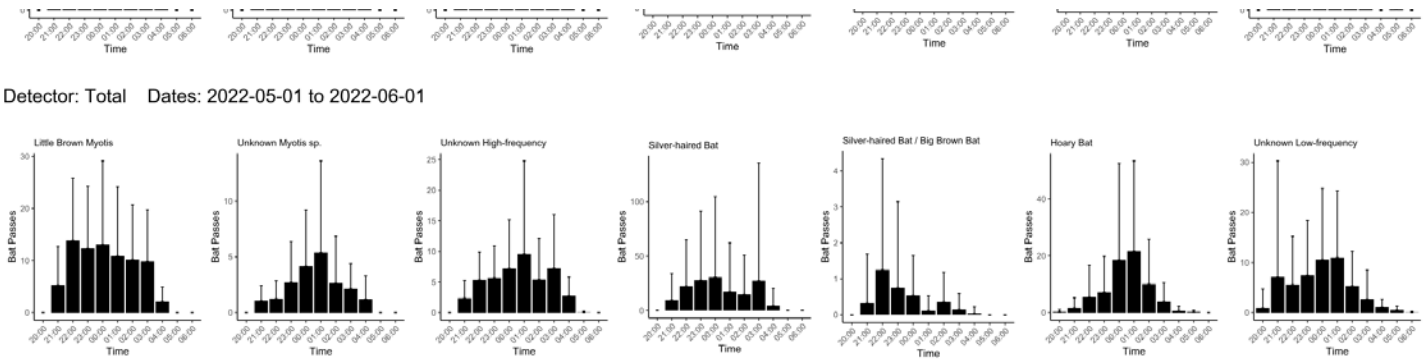
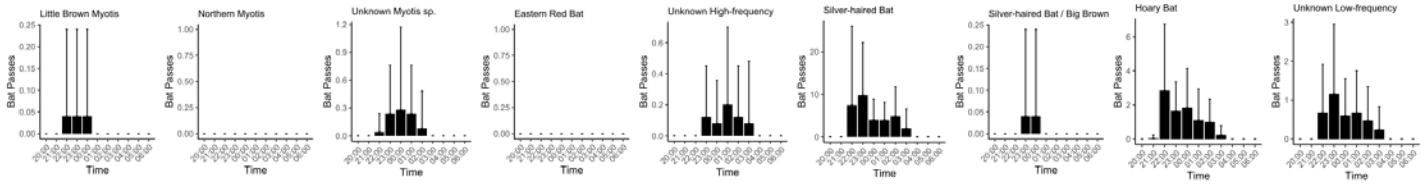
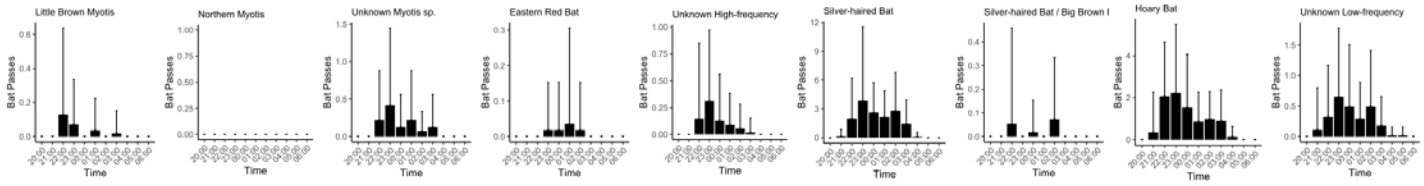


Figure D9. Average activity (+/- SD) during each hour per species for the period of 1 May - 1 June, 2022

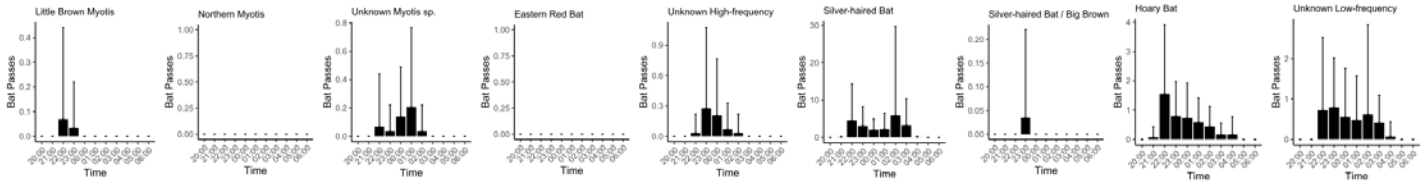
Detector: A1 Dates: 2022-06-01 to 2022-07-31



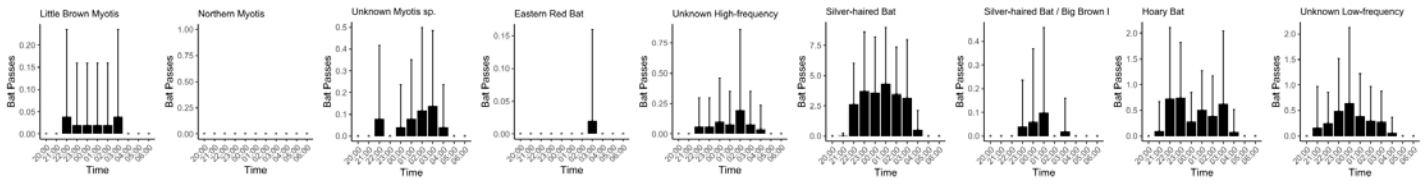
Detector: A10 Dates: 2022-06-01 to 2022-07-31



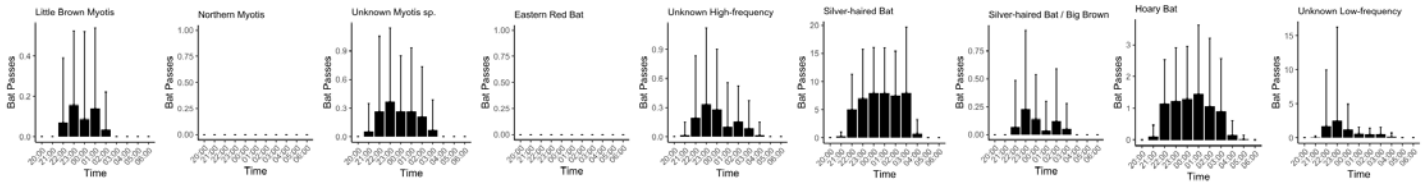
Detector: A11 Dates: 2022-06-01 to 2022-07-31



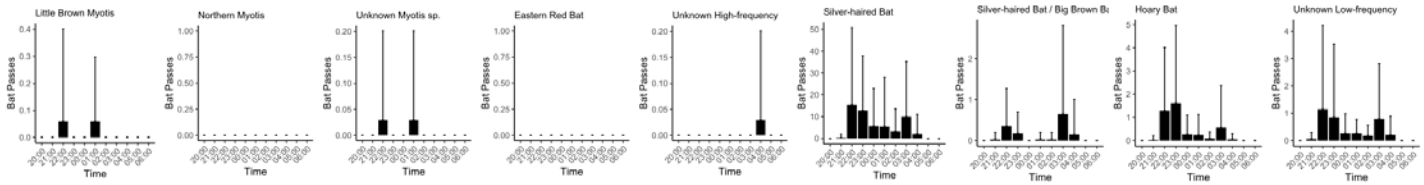
Detector: A12 Dates: 2022-06-01 to 2022-07-31



Detector: A13 Dates: 2022-06-01 to 2022-07-31

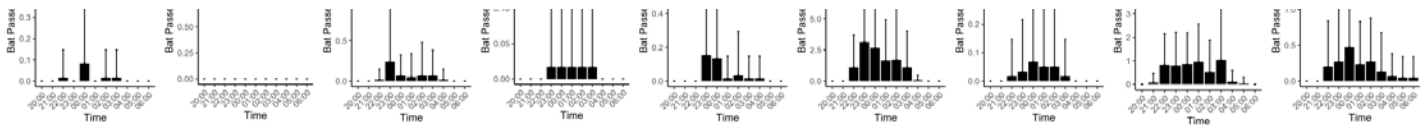


Detector: A16 Dates: 2022-06-01 to 2022-07-31

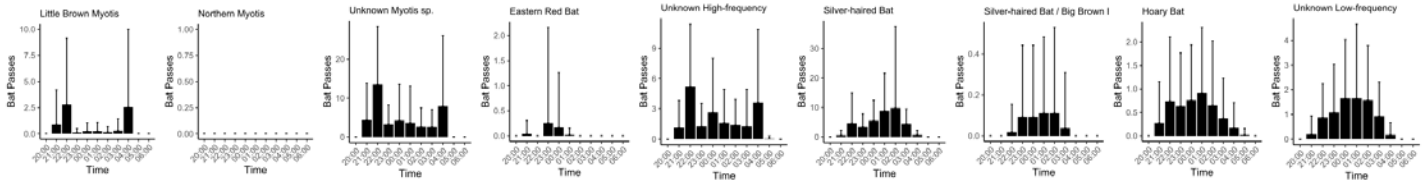


Detector: A21 Dates: 2022-06-01 to 2022-07-31

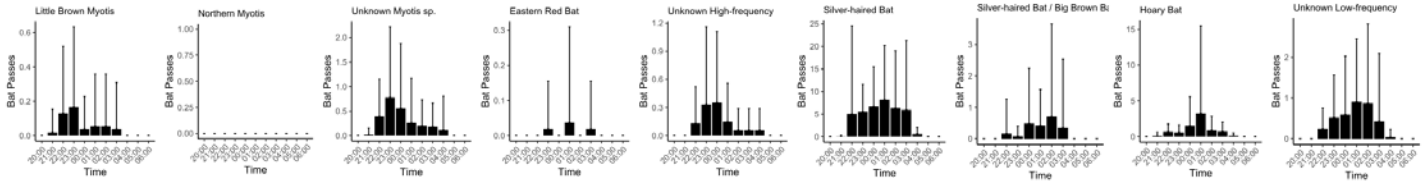




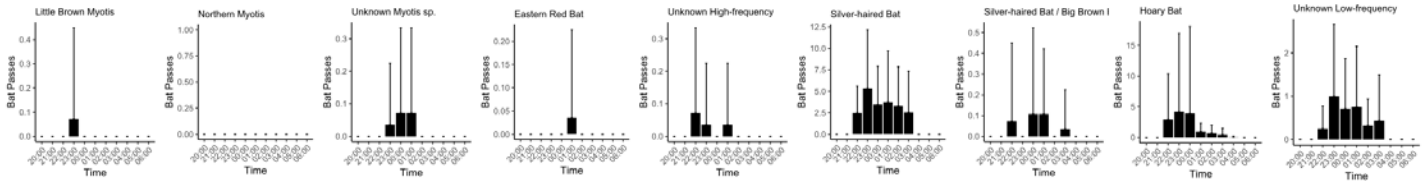
Detector: A22 Dates: 2022-06-01 to 2022-07-31



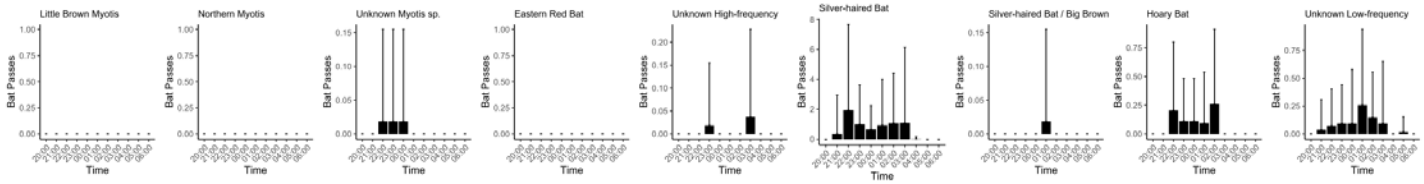
Detector: A23 Dates: 2022-06-01 to 2022-07-31



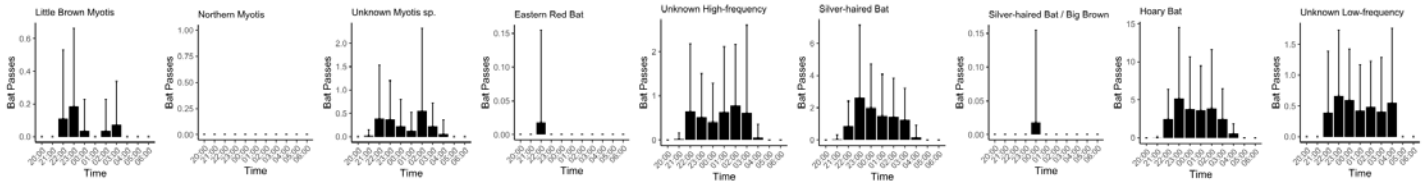
Detector: A28 Dates: 2022-06-01 to 2022-07-31



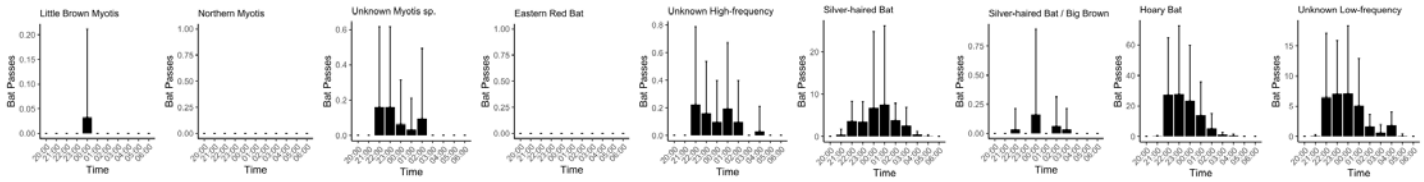
Detector: A4 Dates: 2022-06-01 to 2022-07-31



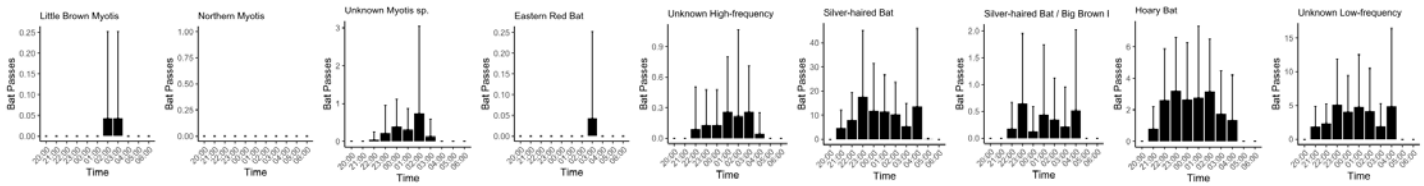
Detector: A5 Dates: 2022-06-01 to 2022-07-31



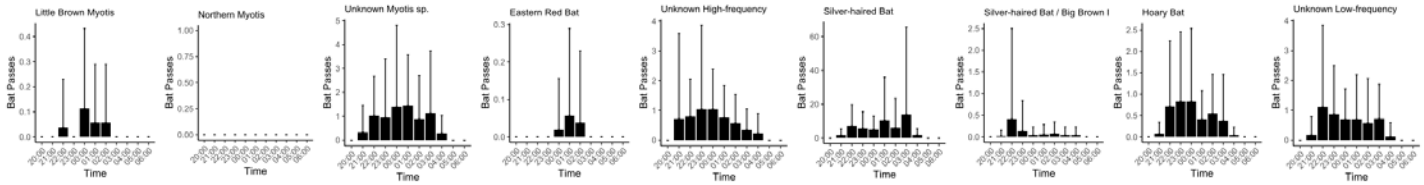
Detector: A9 Dates: 2022-06-01 to 2022-07-31



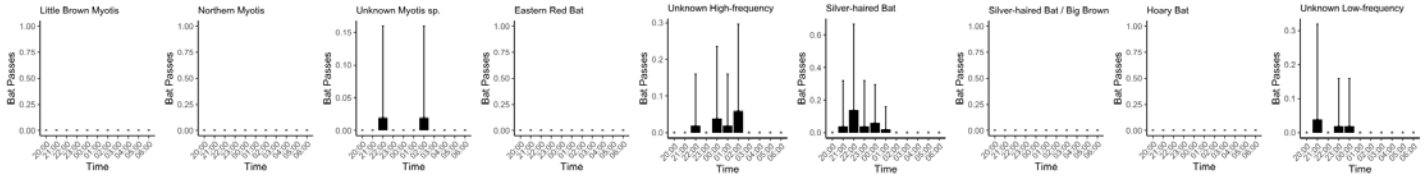
Detector: C10 Dates: 2022-06-01 to 2022-07-31



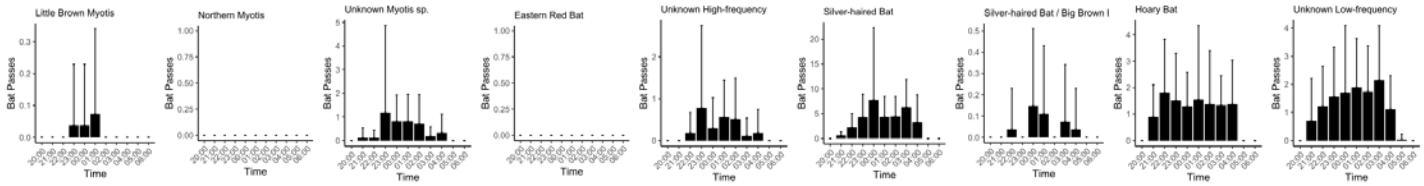
Detector: C12 Dates: 2022-06-01 to 2022-07-31



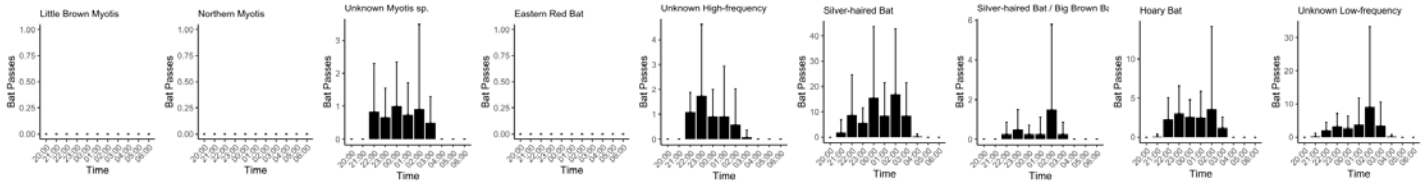
Detector: C13 Dates: 2022-06-01 to 2022-07-31



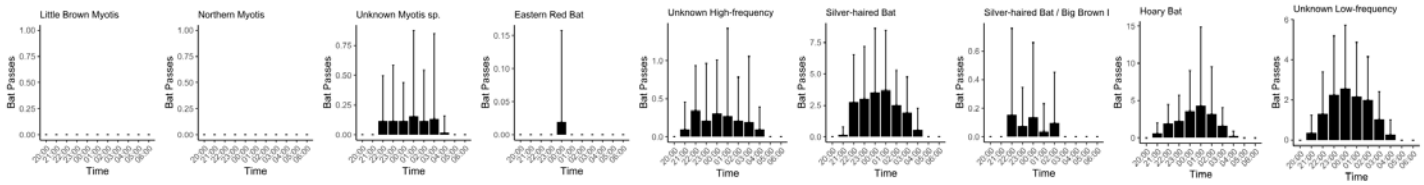
Detector: C14 Dates: 2022-06-01 to 2022-07-31



Detector: C15 Dates: 2022-06-01 to 2022-07-31

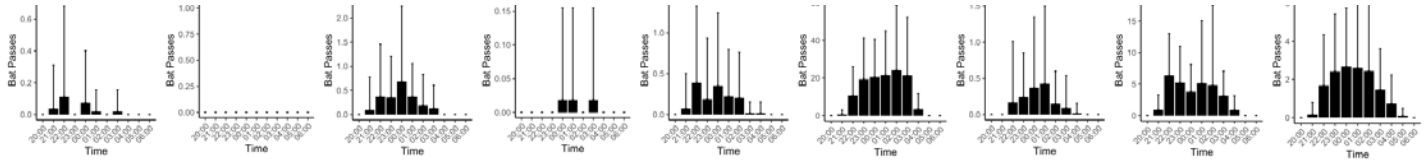


Detector: C16 Dates: 2022-06-01 to 2022-07-31

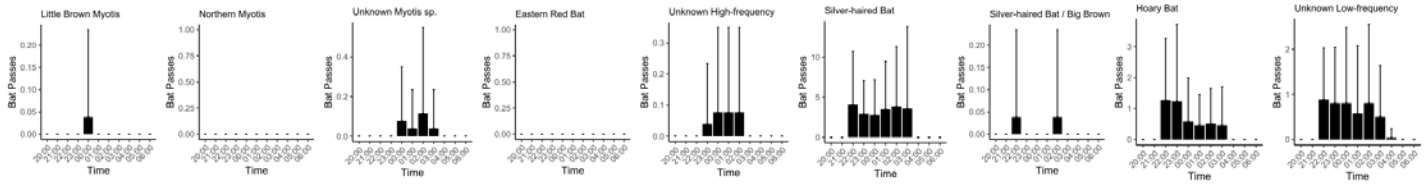


Detector: C17 Dates: 2022-06-01 to 2022-07-31

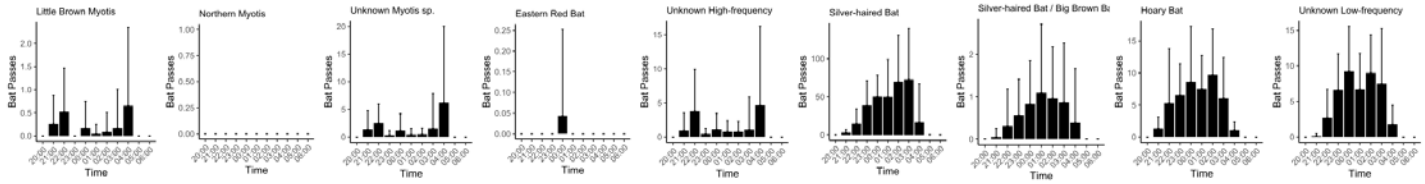




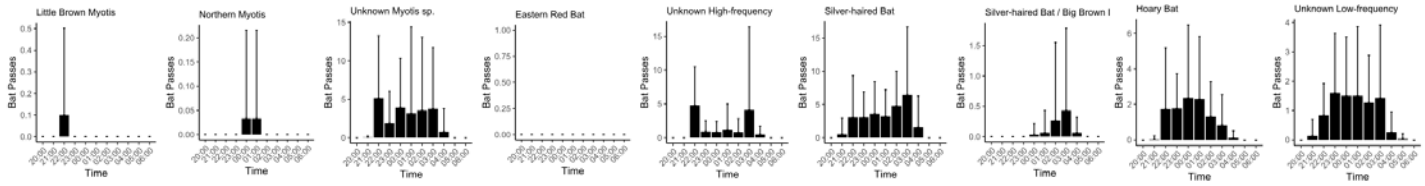
Detector: C19 Dates: 2022-06-01 to 2022-07-31



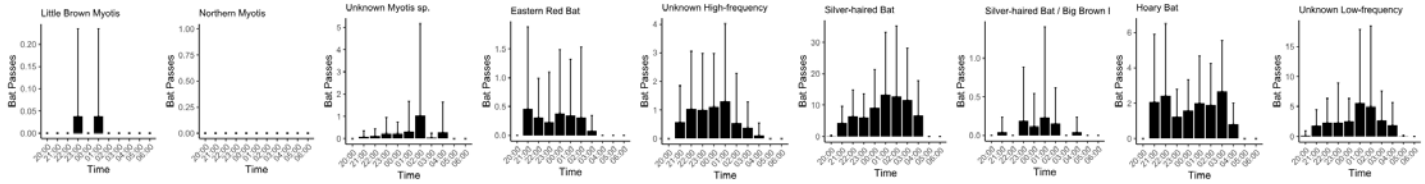
Detector: C2 Dates: 2022-06-01 to 2022-07-31



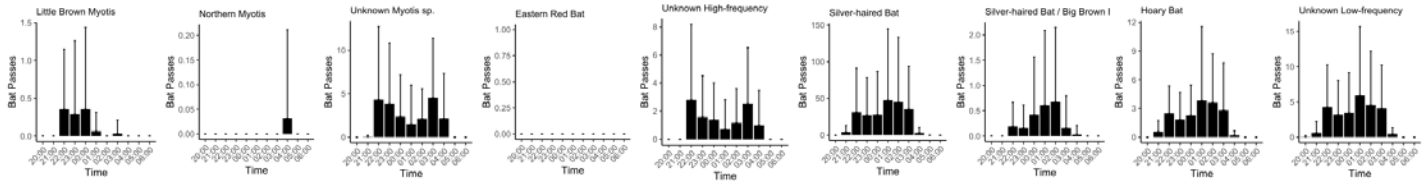
Detector: C20 Dates: 2022-06-01 to 2022-07-31



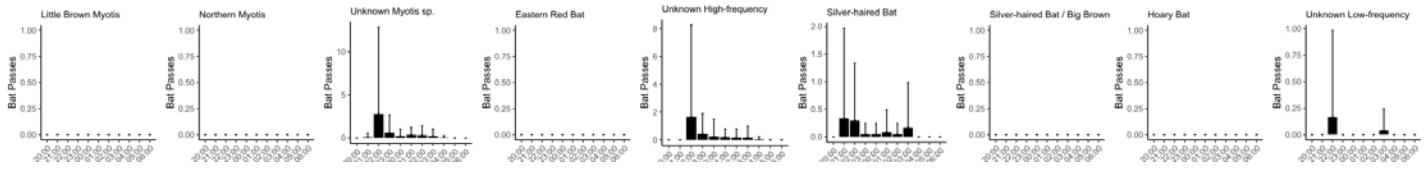
Detector: C21 Dates: 2022-06-01 to 2022-07-31



Detector: C23 Dates: 2022-06-01 to 2022-07-31

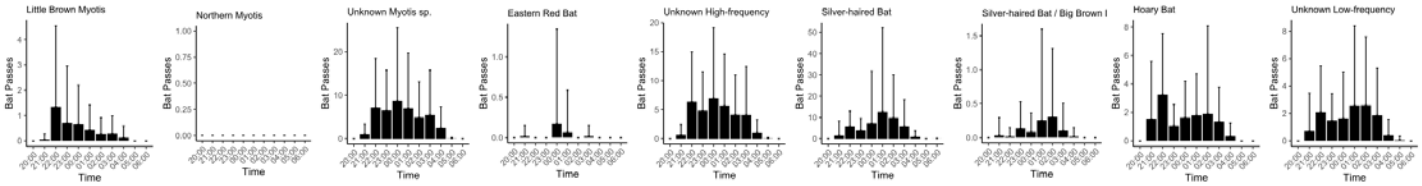


Detector: C26 Dates: 2022-06-01 to 2022-07-31

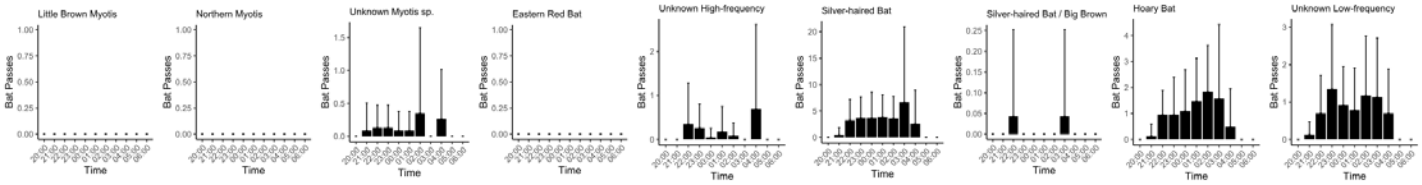




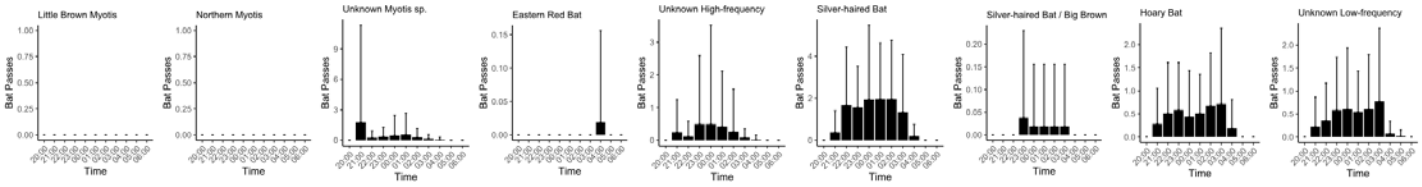
Detector: C29 Dates: 2022-06-01 to 2022-07-31



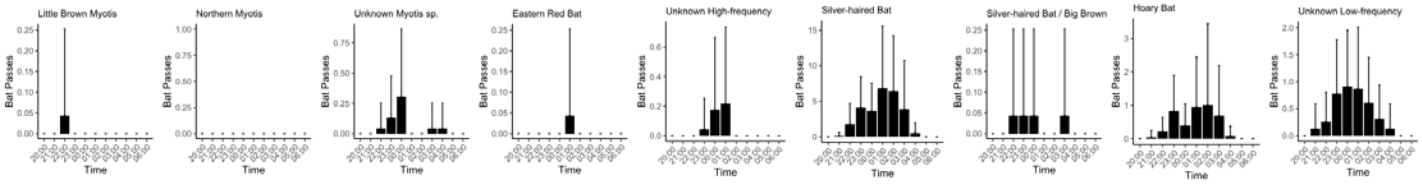
Detector: C31 Dates: 2022-06-01 to 2022-07-31



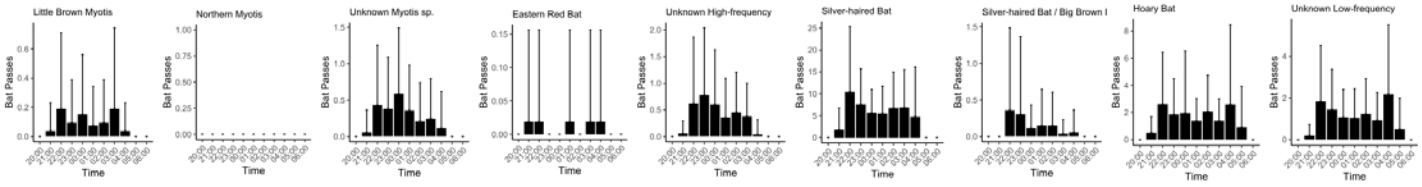
Detector: C32 Dates: 2022-06-01 to 2022-07-31



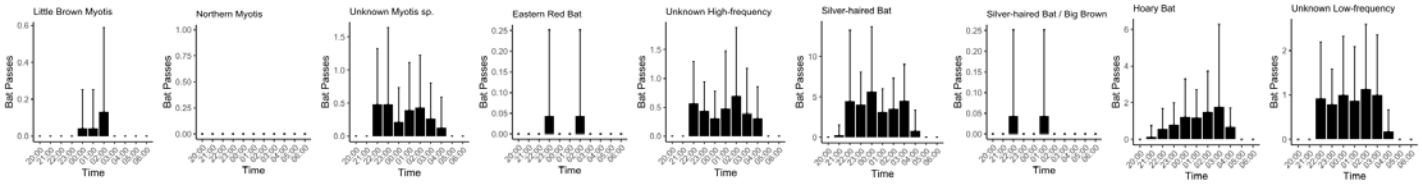
Detector: C35 Dates: 2022-06-01 to 2022-07-31



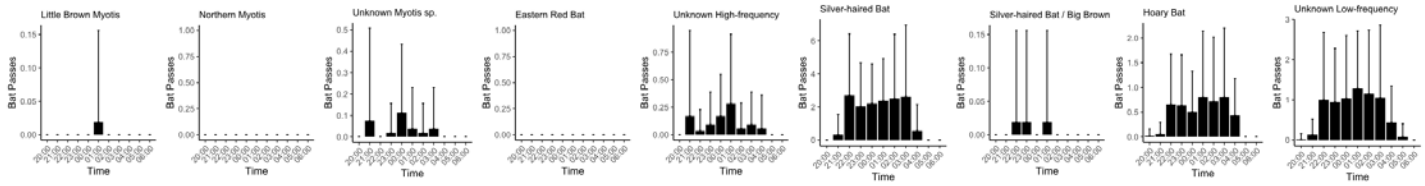
Detector: C36 Dates: 2022-06-01 to 2022-07-31



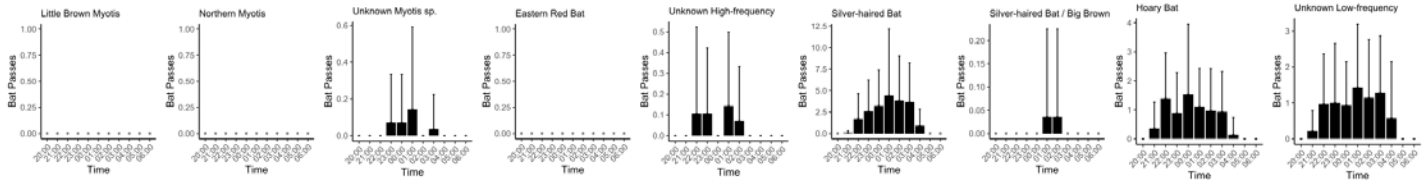
Detector: C37 Dates: 2022-06-01 to 2022-07-31



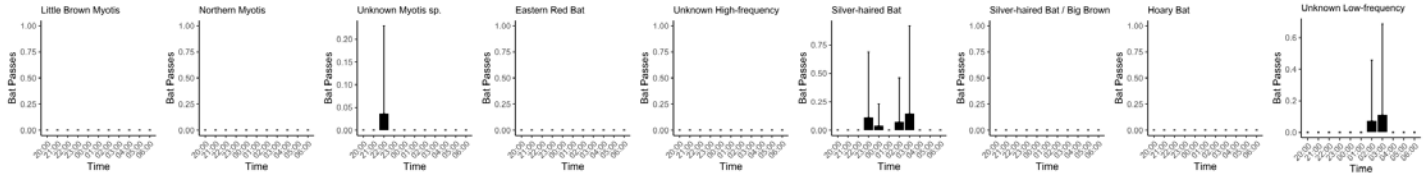
Detector: C38 Dates: 2022-06-01 to 2022-07-31



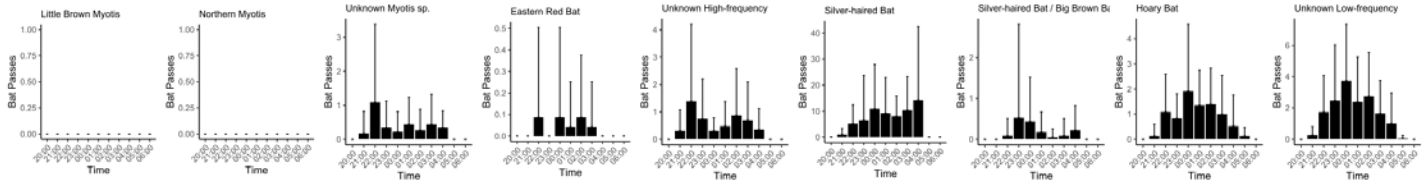
Detector: C4 Dates: 2022-06-01 to 2022-07-31



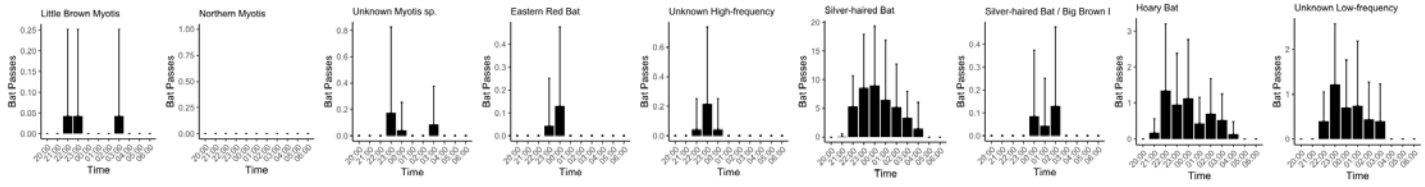
Detector: C5 Dates: 2022-06-01 to 2022-07-31



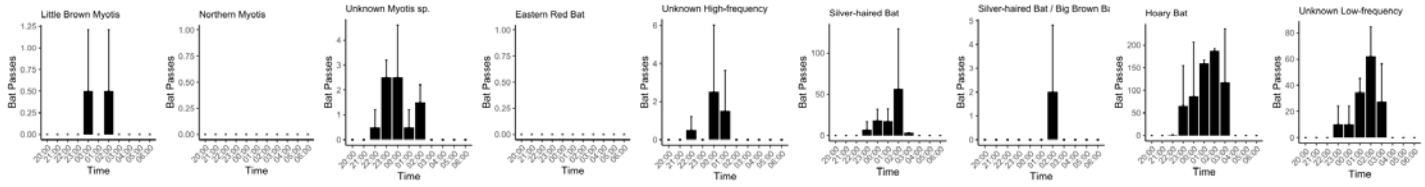
Detector: C7 Dates: 2022-06-01 to 2022-07-31



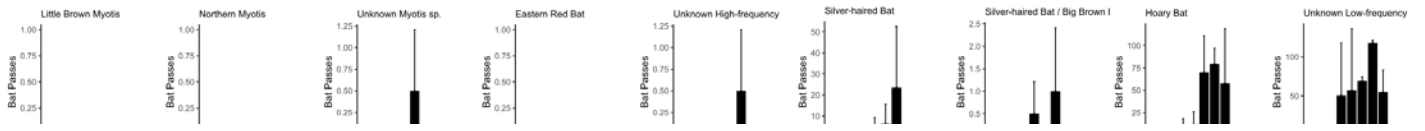
Detector: C9 Dates: 2022-06-01 to 2022-07-31

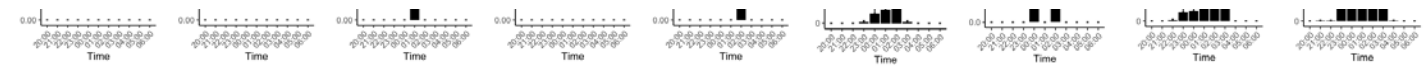


Detector: Camp_bat_1 Dates: 2022-06-01 to 2022-07-31

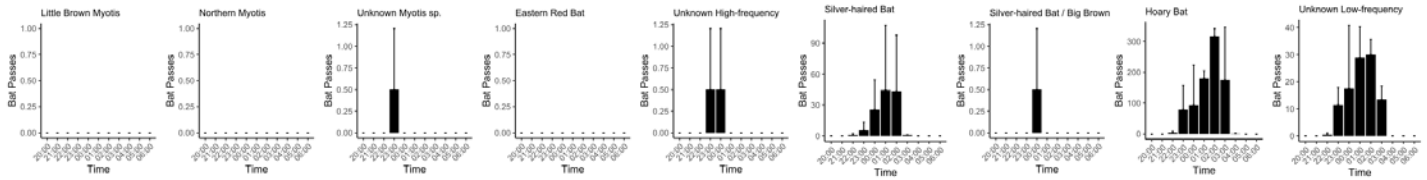


Detector: Camp_bat_2 Dates: 2022-06-01 to 2022-07-31

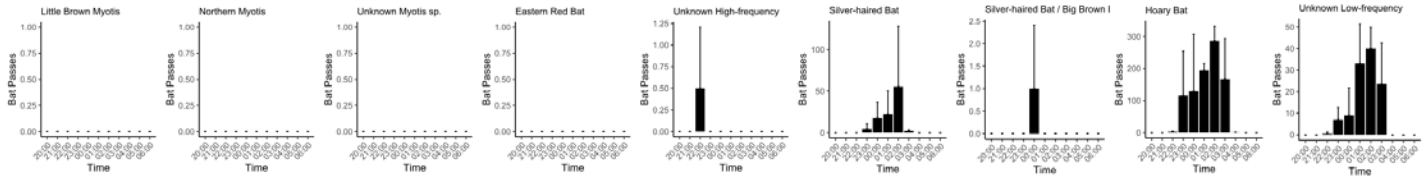




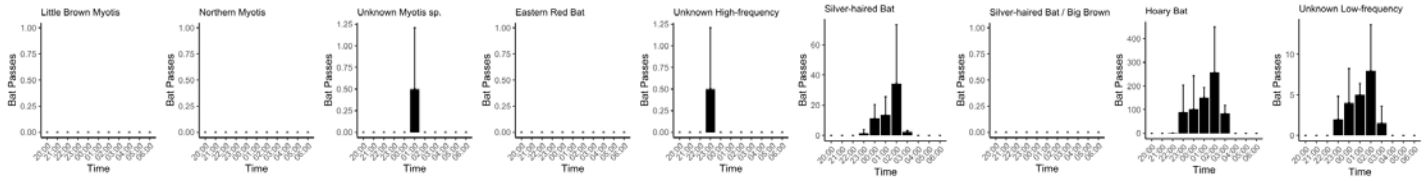
Detector: Camp_bat_3 Dates: 2022-06-01 to 2022-07-31



Detector: Camp_bat_4 Dates: 2022-06-01 to 2022-07-31



Detector: Camp_bat_5 Dates: 2022-06-01 to 2022-07-31



Detector: Total Dates: 2022-06-01 to 2022-07-31

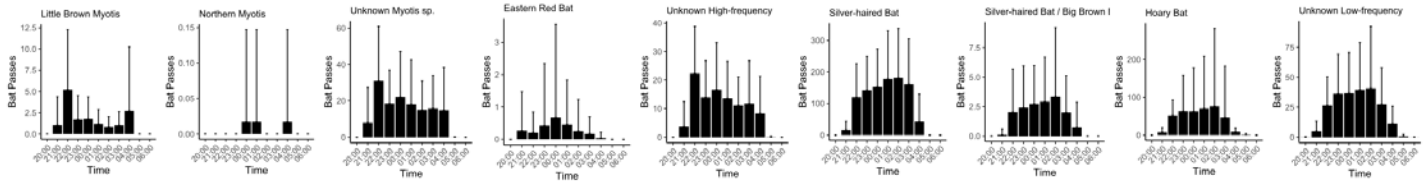
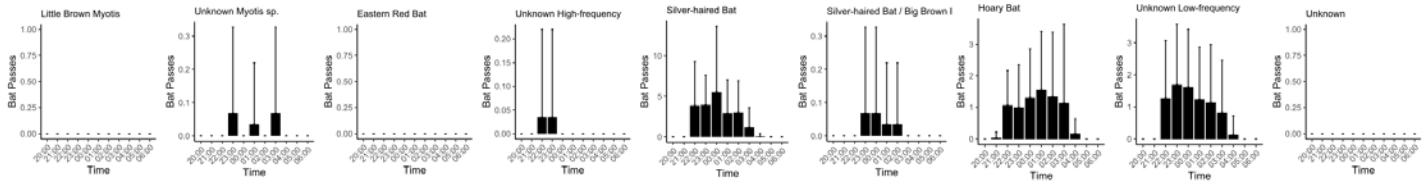
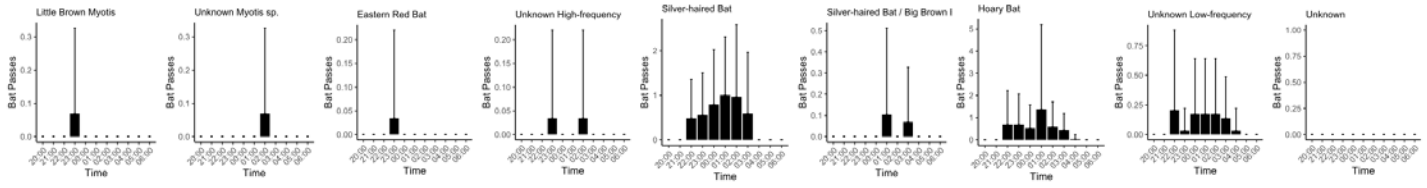


Figure D10. Average activity (+/- SD) during each hour per species for the period of 1 June - 31 July, 2022

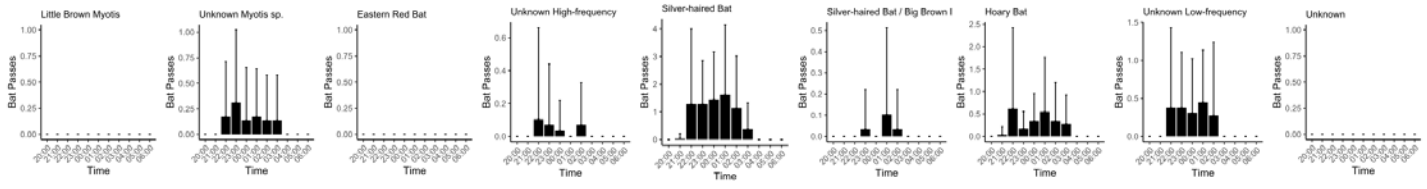
Detector: A18 Dates: 2023-06-01 to 2023-06-30



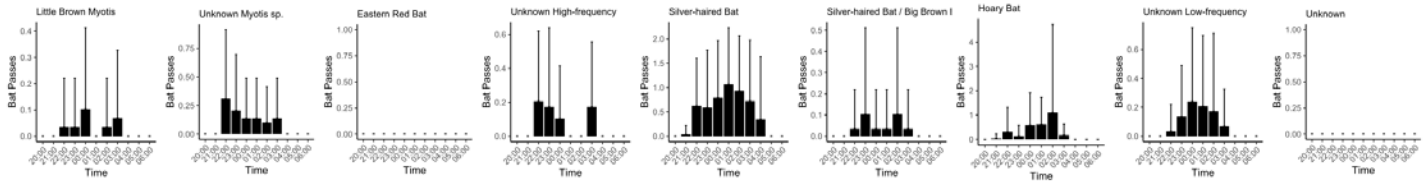
Detector: A6 Dates: 2023-06-01 to 2023-06-30



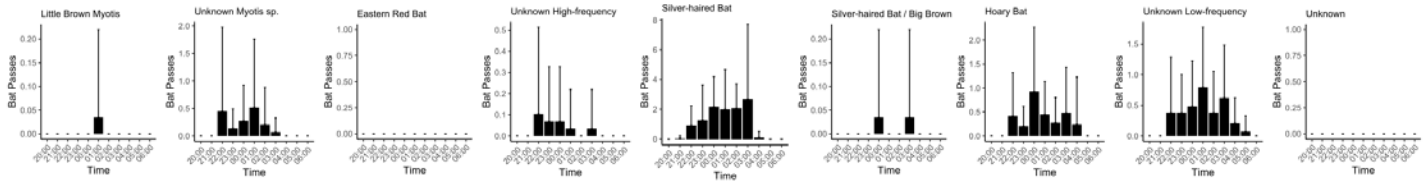
Detector: B19 Dates: 2023-06-01 to 2023-06-30



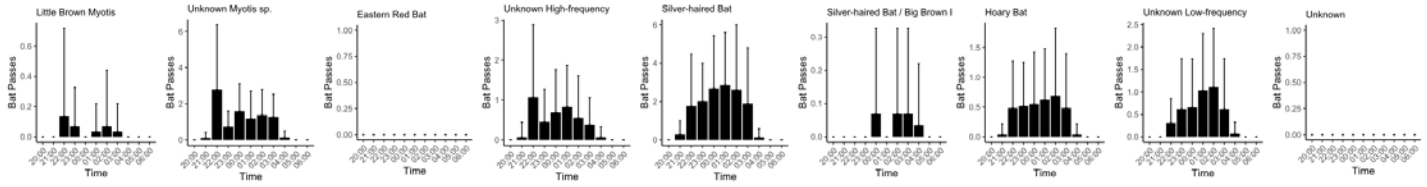
Detector: B2 Dates: 2023-06-01 to 2023-06-30



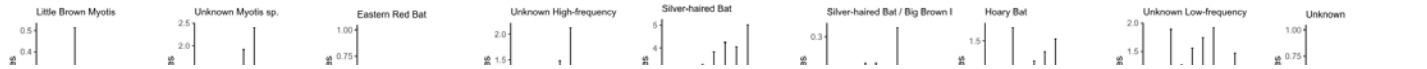
Detector: C10 Dates: 2023-06-01 to 2023-06-30

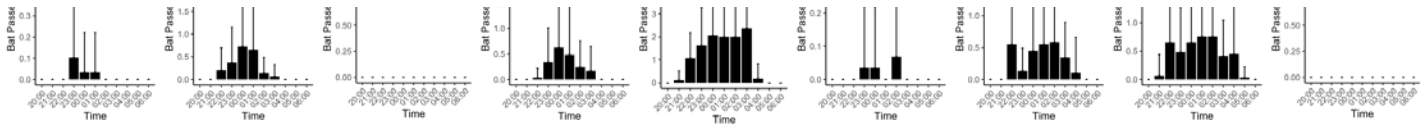


Detector: C12 Dates: 2023-06-01 to 2023-06-30

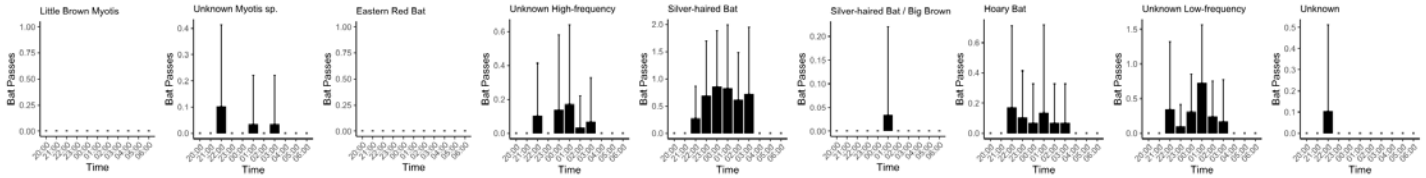


Detector: C13 Dates: 2023-06-01 to 2023-06-30

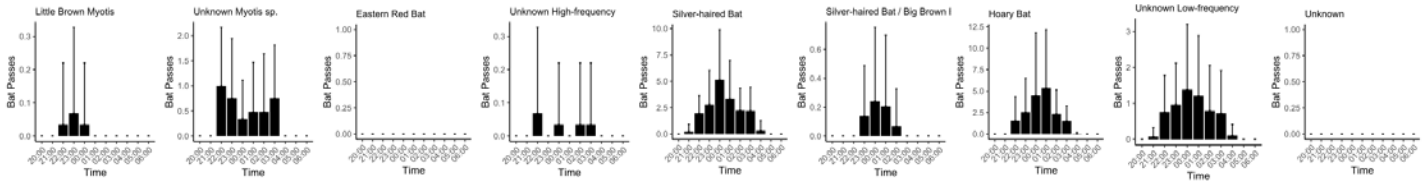




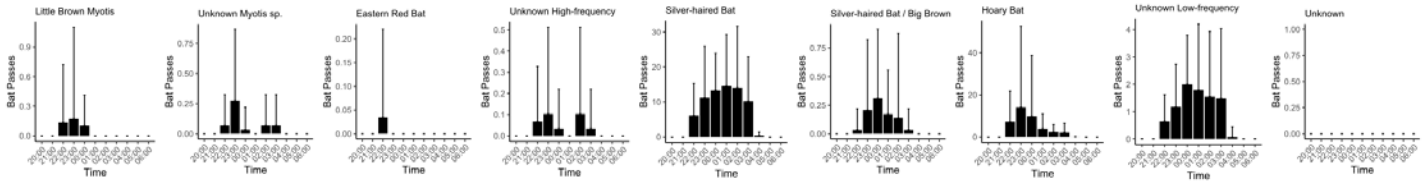
Detector: C14 Dates: 2023-06-01 to 2023-06-30



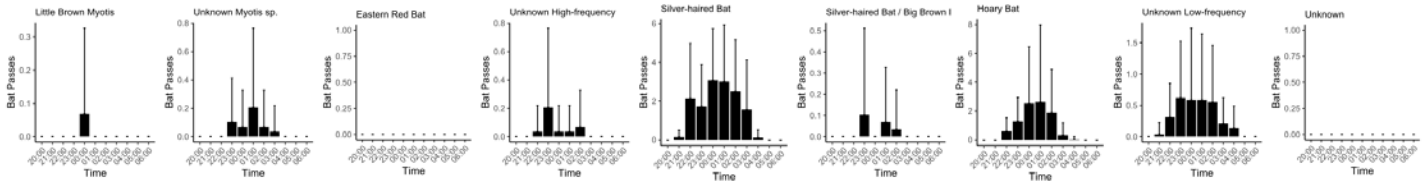
Detector: C16 Dates: 2023-06-01 to 2023-06-30



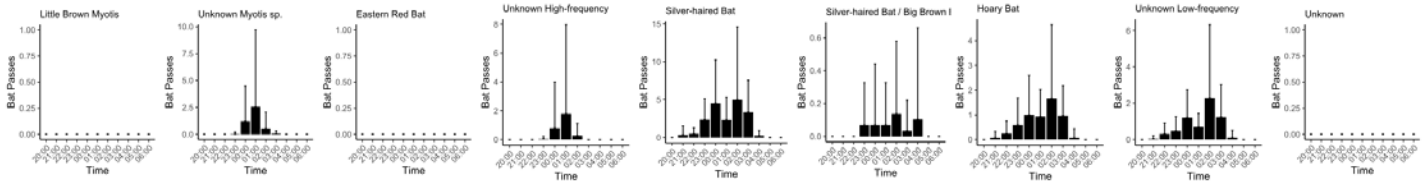
Detector: C17 Dates: 2023-06-01 to 2023-06-30



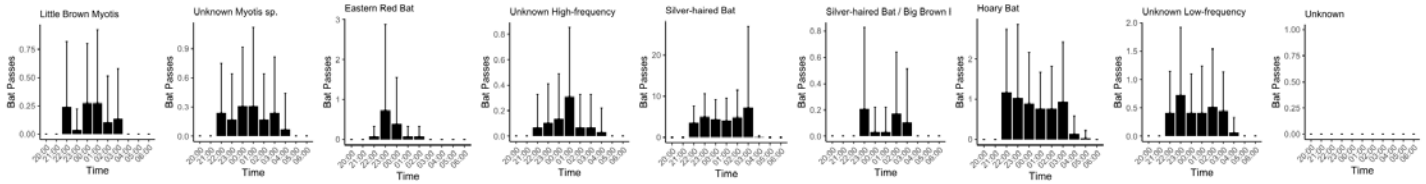
Detector: C19 Dates: 2023-06-01 to 2023-06-30



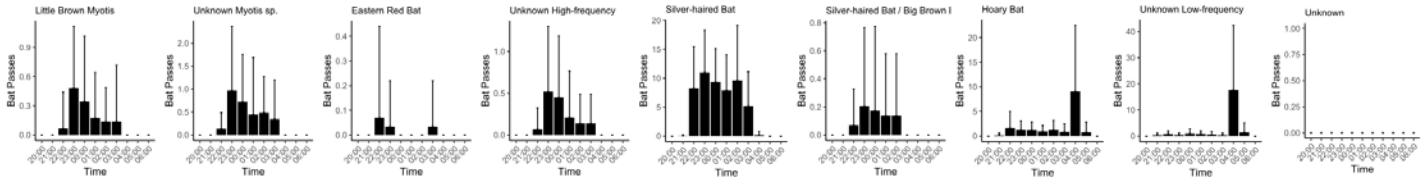
Detector: C24 Dates: 2023-06-01 to 2023-06-30



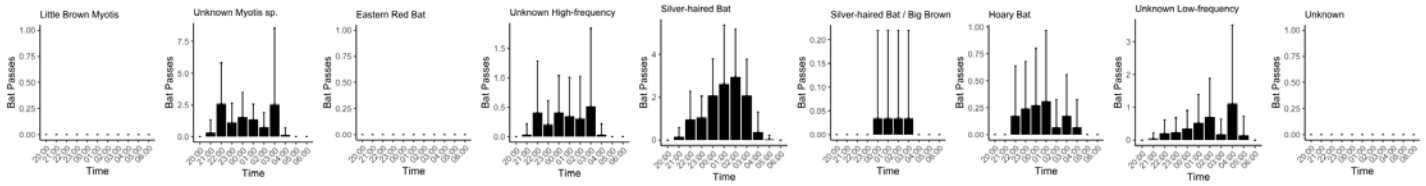
Detector: C36 Dates: 2023-06-01 to 2023-06-30



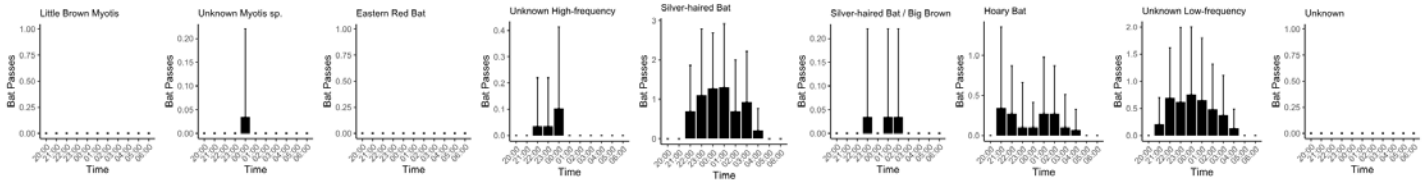
Detector: C37 Dates: 2023-06-01 to 2023-06-30



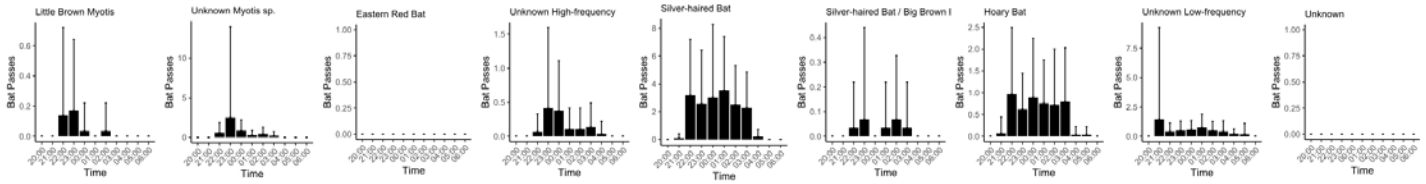
Detector: D1 Dates: 2023-06-01 to 2023-06-30



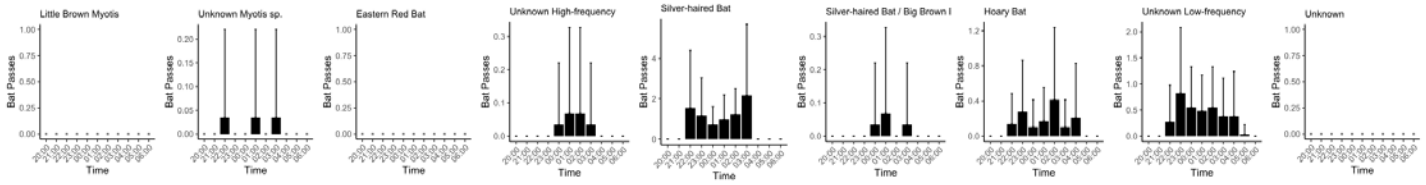
Detector: D11 Dates: 2023-06-01 to 2023-06-30



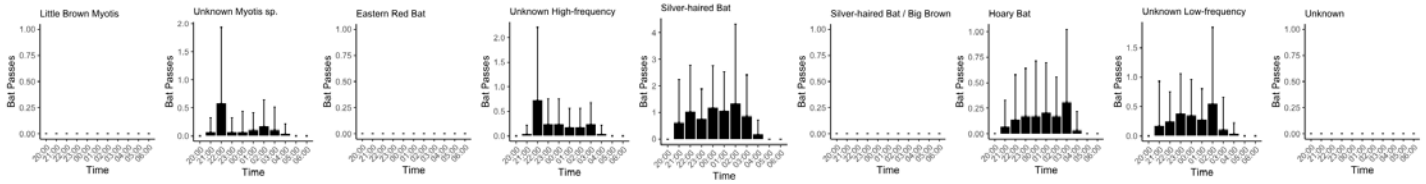
Detector: D12 Dates: 2023-06-01 to 2023-06-30



Detector: D13 Dates: 2023-06-01 to 2023-06-30

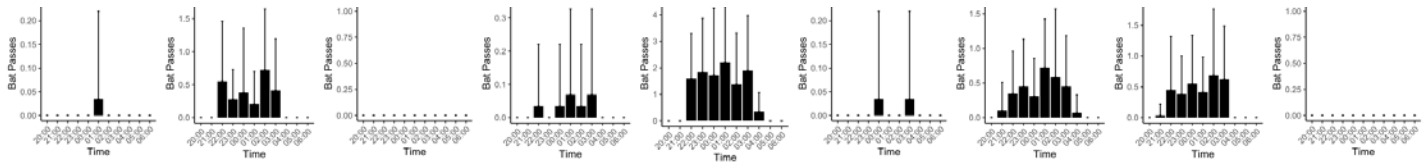


Detector: D2 Dates: 2023-06-01 to 2023-06-30

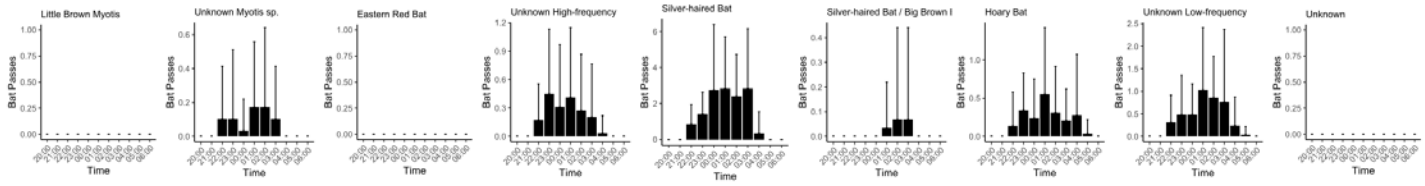


Detector: D3 Dates: 2023-06-01 to 2023-06-30

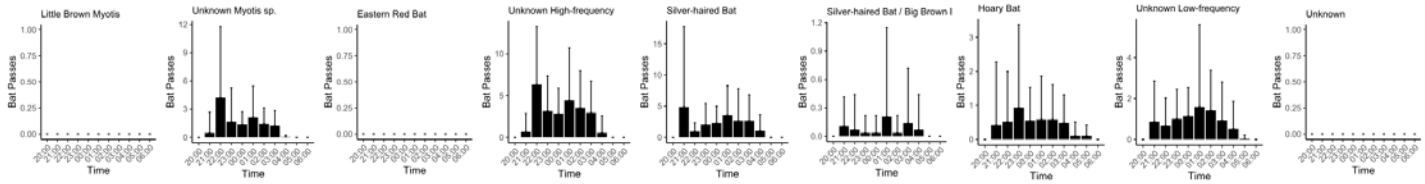




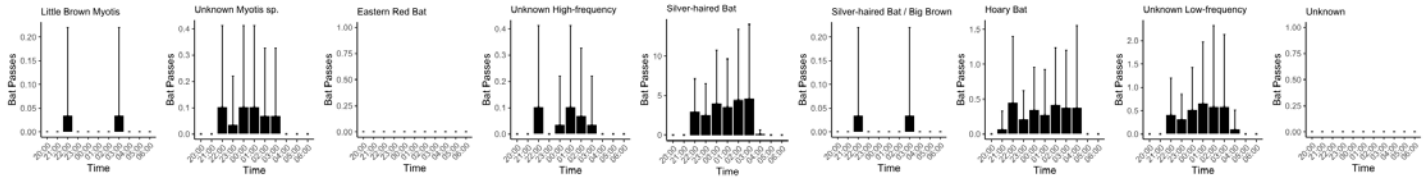
Detector: D4 Dates: 2023-06-01 to 2023-06-30



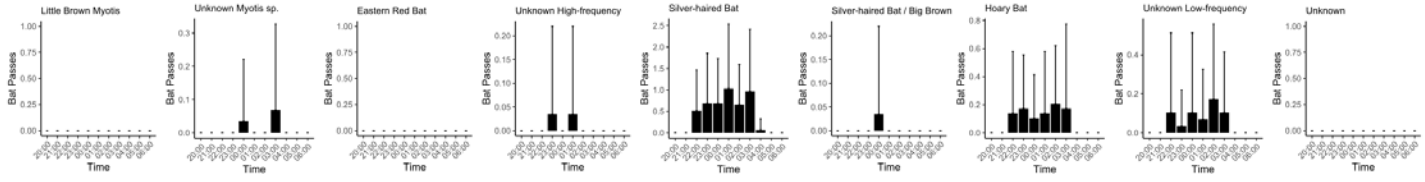
Detector: D5 Dates: 2023-06-01 to 2023-06-30



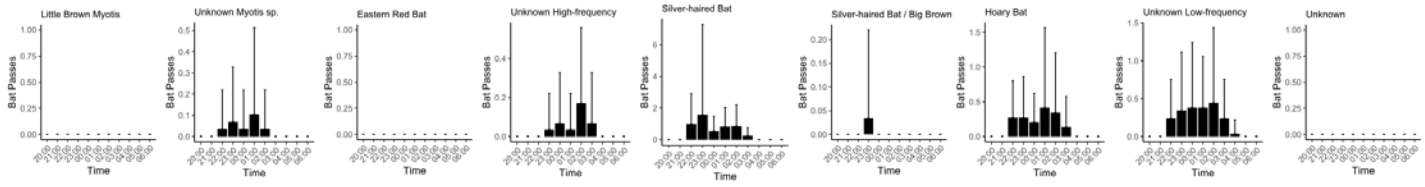
Detector: D6 Dates: 2023-06-01 to 2023-06-30



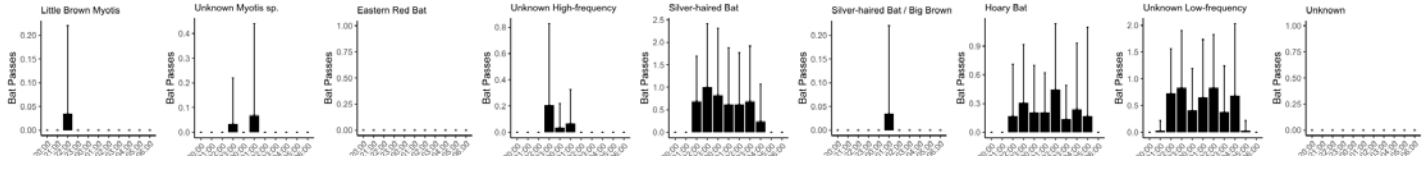
Detector: D7 Dates: 2023-06-01 to 2023-06-30



Detector: D8 Dates: 2023-06-01 to 2023-06-30



Detector: D9 Dates: 2023-06-01 to 2023-06-30





Detector: Total Dates: 2023-06-01 to 2023-06-30

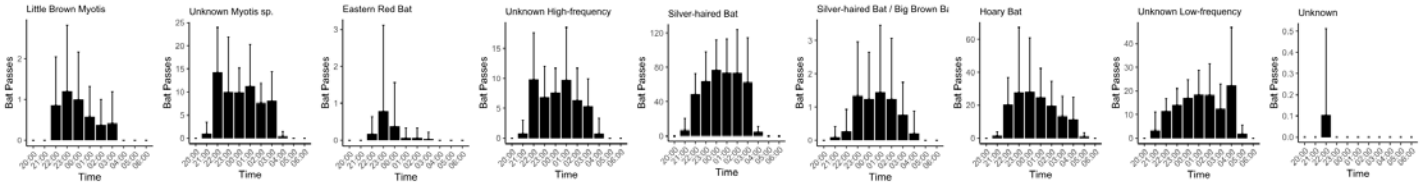
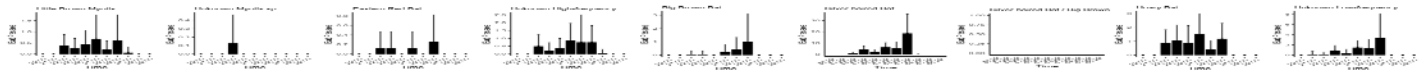
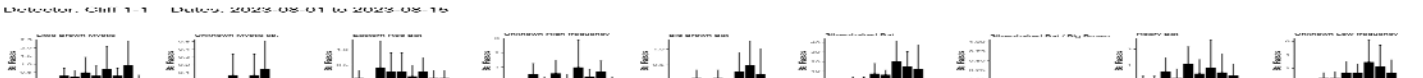


Figure D11. Average activity (+/- SD) during each hour per species for the period of 1 June - 30 June, 2023

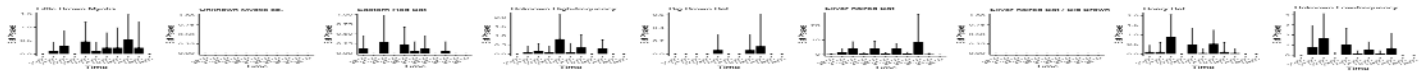
Detector: Cliff 1-1 **Dates: 2023-07-15 to 2023-08-01**



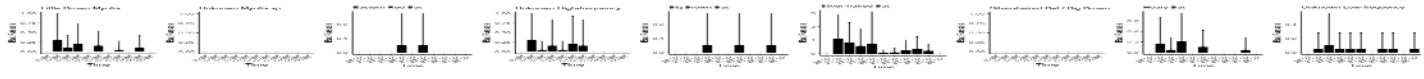
Detector: Cliff 1-1 **Dates: 2023-08-01 to 2023-08-15**



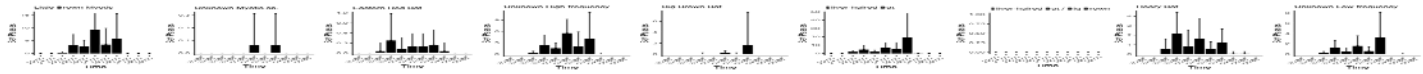
Detector: Cliff 1-1 **Dates: 2023-08-15 to 2023-09-01**



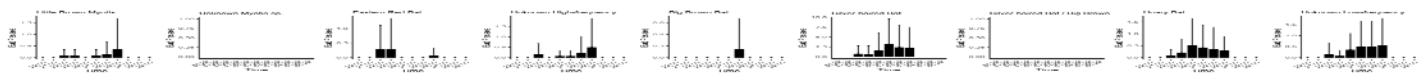
Detector: Cliff 1-1 **Dates: 2023-08-01 to 2023-08-20**



Detector: Cliff 1-10 **Dates: 2023-07-15 to 2023-08-01**



Detector: Cliff 1-10 **Dates: 2023-08-01 to 2023-08-15**



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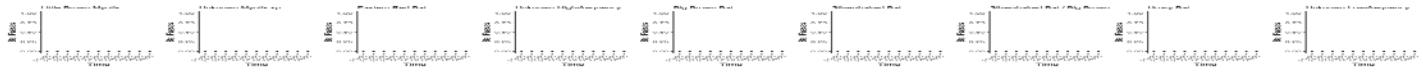
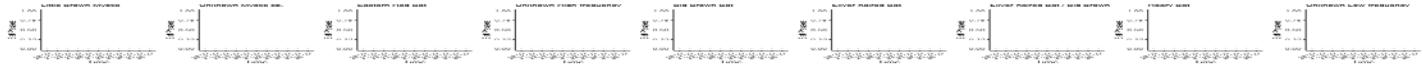
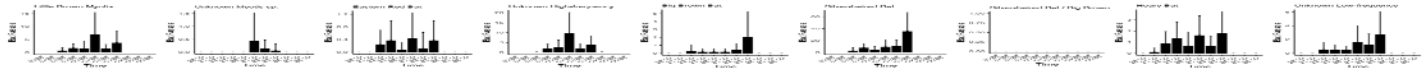


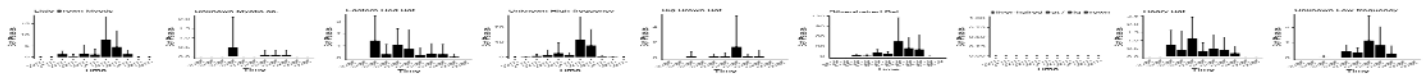
Detector: Cliff 1-10 **Dates: 2023-08-01 to 2023-08-20**



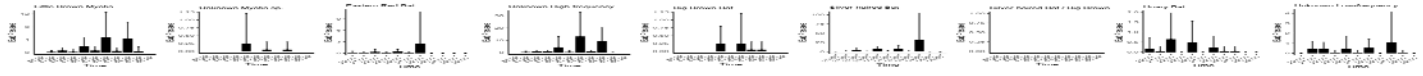
Detector: Cliff 1-2 **Dates: 2023-07-15 to 2023-08-01**



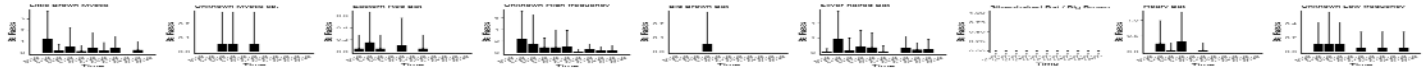
Detector: Cliff 1-2 **Dates: 2023-08-01 to 2023-08-15**



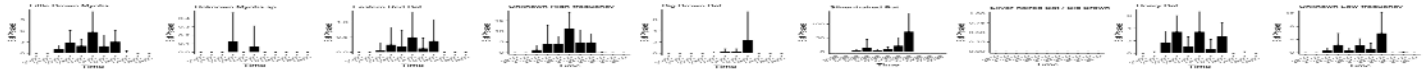
Detector: Cliff 1-2 **Dates: 2023-08-15 to 2023-09-01**



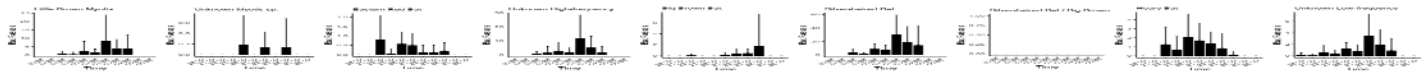
Detector: Cliff 1-2 **Dates: 2023-08-01 to 2023-08-20**



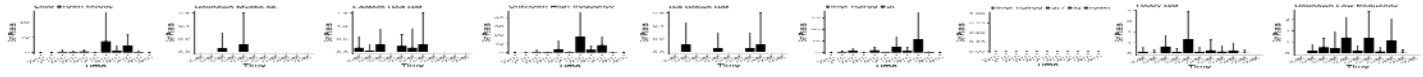
Detector: Cliff 1-3 **Dates: 2023-07-15 to 2023-08-01**



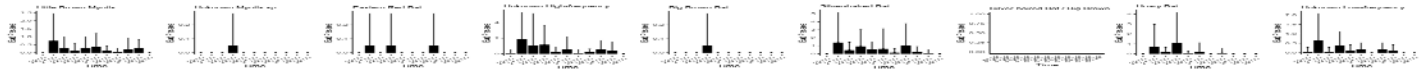
Detector: Cliff 1-3 **Dates: 2023-08-01 to 2023-08-15**



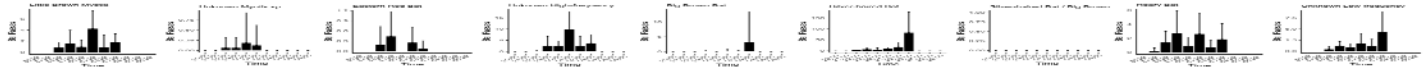
Detector: Cliff 1-3 **Dates: 2023-08-15 to 2023-09-01**



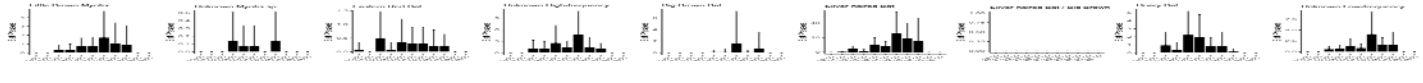
Detector: Cliff 1-3 **Dates: 2023-08-01 to 2023-08-20**



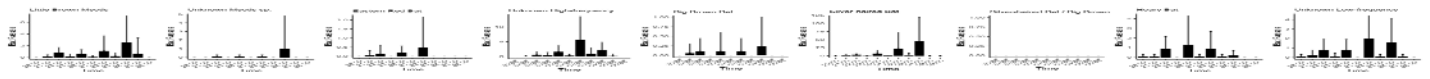
Detector: Cliff 1-4 **Dates: 2023-07-15 to 2023-08-01**



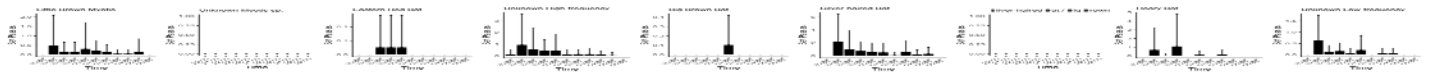
Detector: Cliff 1-4 **Dates: 2023-08-01 to 2023-08-15**



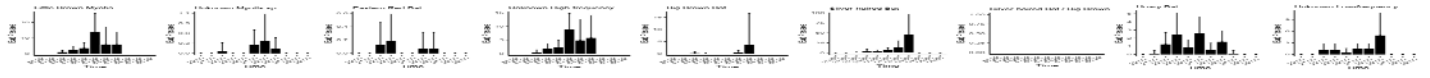
Detector: Cliff 1-4 Dates: 2023-08-15 to 2023-09-01



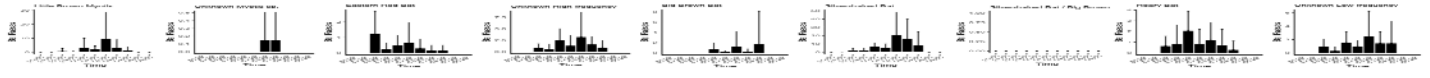
Detector: Cliff 1-4 Dates: 2023-09-01 to 2023-09-20



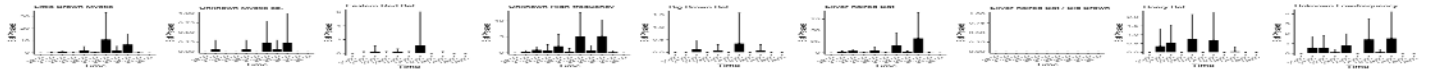
Detector: Cliff 1-5 Dates: 2023-07-15 to 2023-08-01



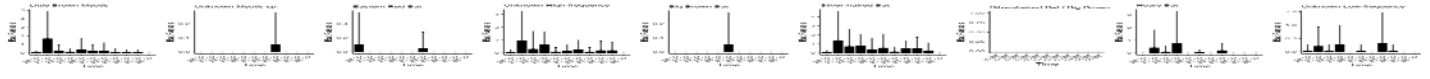
Detector: Cliff 1-5 Dates: 2023-08-01 to 2023-08-15



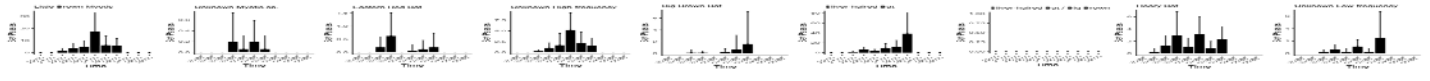
Detector: Cliff 1-5 Dates: 2023-08-15 to 2023-09-01



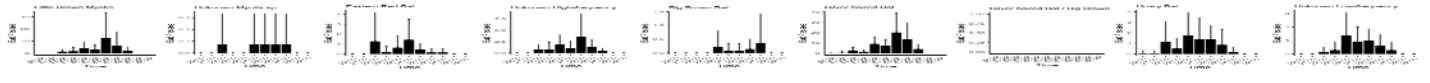
Detector: Cliff 1-6 Dates: 2023-08-01 to 2023-08-20



Detector: Cliff 1-6 Dates: 2023-07-15 to 2023-08-01



Detector: Cliff 1-6 Dates: 2023-08-01 to 2023-08-15



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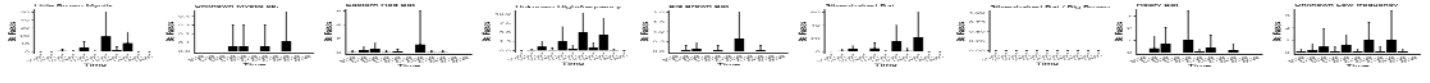
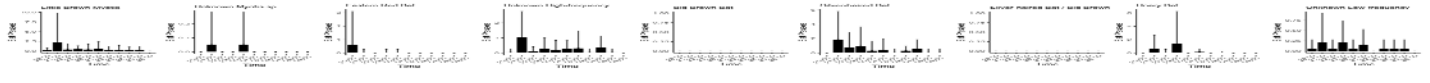
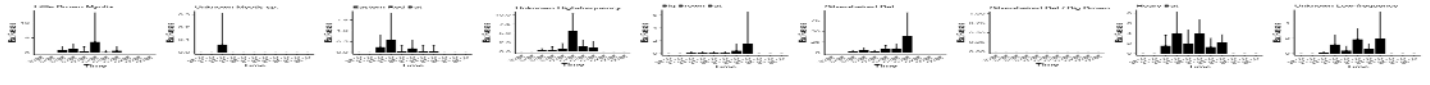


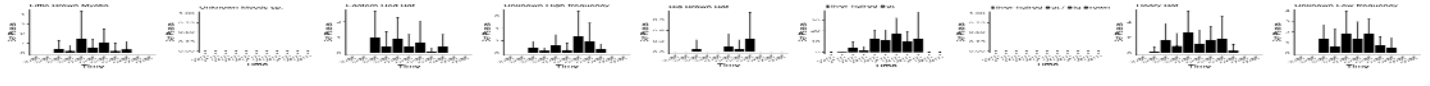
Detector: Cliff 1-6 Dates: 2023-09-01 to 2023-09-20



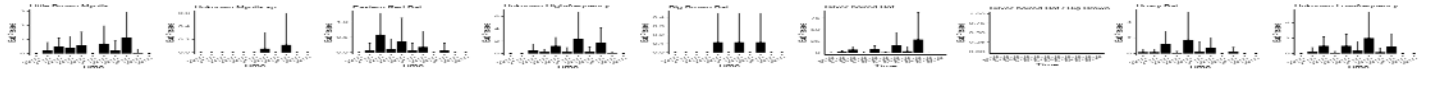
Detector: Cliff 1-7 Dates: 2023-07-15 to 2023-08-01



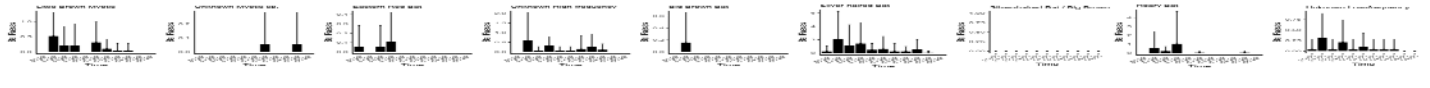
Detector: Cliff 1-7 Dates: 2023-08-01 to 2023-08-15



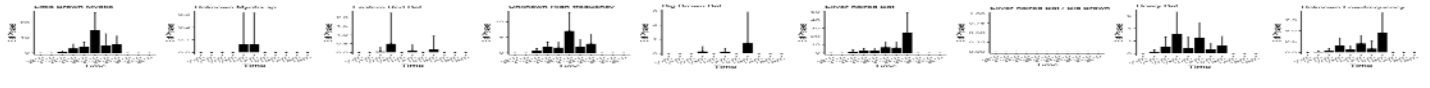
Detector: Cliff 1-7 Dates: 2023-08-15 to 2023-09-01



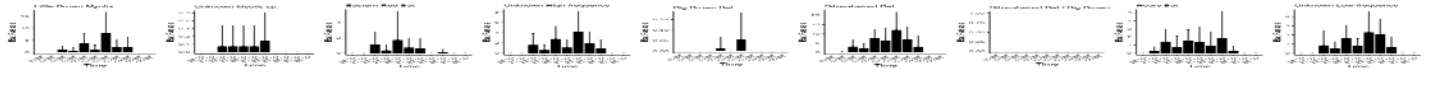
Detector: Cliff 1-7 Dates: 2023-09-01 to 2023-09-20



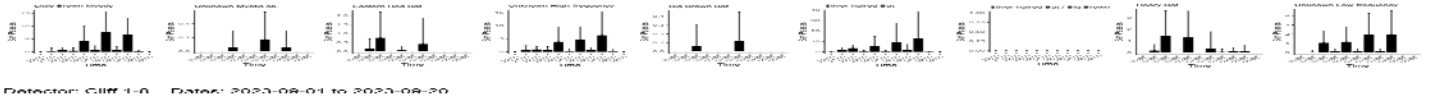
Detector: Cliff 1-8 Dates: 2023-07-15 to 2023-08-01



Detector: Cliff 1-8 Dates: 2023-08-01 to 2023-08-15



Detector: Cliff 1-8 Dates: 2023-08-15 to 2023-09-01

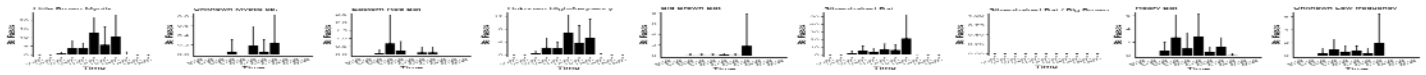


Detector: Cliff 1-8 Dates: 2023-09-01 to 2023-09-20

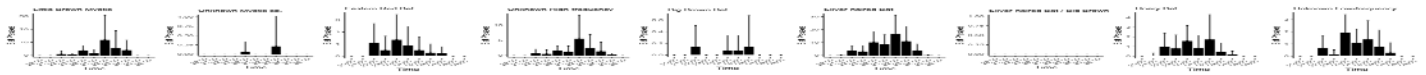




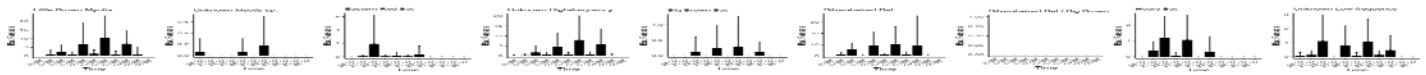
Detector: Cliff 1-9 **Dates:** 2023-07-15 to 2023-08-01



Detector: Cliff 1-9 **Dates:** 2023-08-01 to 2023-08-15



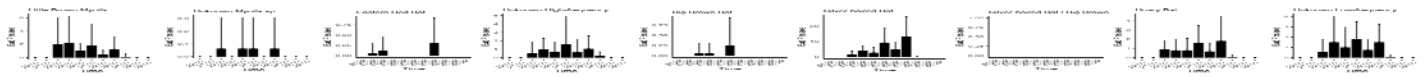
Detector: Cliff 1-9 **Dates:** 2023-08-15 to 2023-09-01



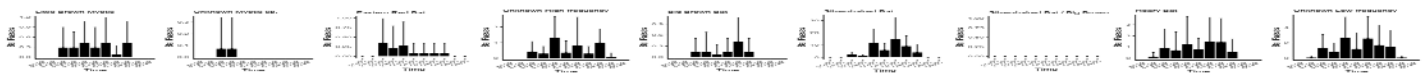
Detector: Cliff 1-9 **Dates:** 2023-09-01 to 2023-09-20



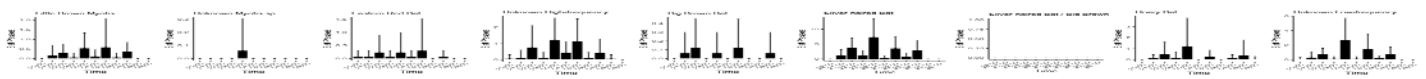
Detector: Cliff 1-control **Dates:** 2023-07-15 to 2023-08-01



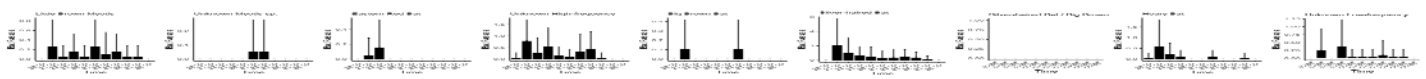
Detector: Cliff 1-control **Dates:** 2023-08-01 to 2023-08-15



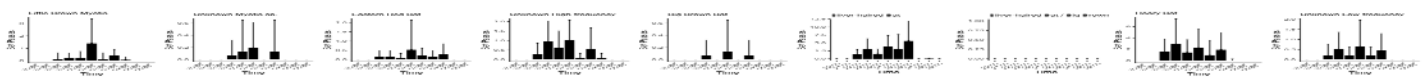
Detector: Cliff 1-control **Dates:** 2023-08-15 to 2023-09-01



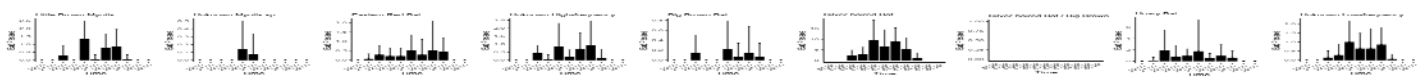
Detector: Cliff 1-control **Dates:** 2023-09-01 to 2023-09-20



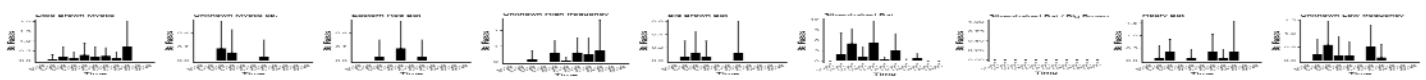
Detector: Cliff 1-control2 **Dates:** 2023-07-15 to 2023-08-01



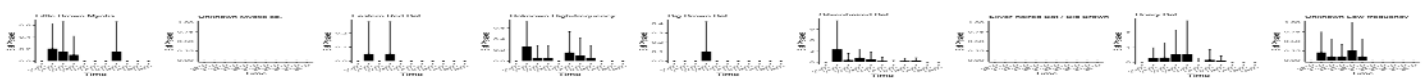
Detector: Cliff 1-control2 **Dates:** 2023-08-01 to 2023-08-15



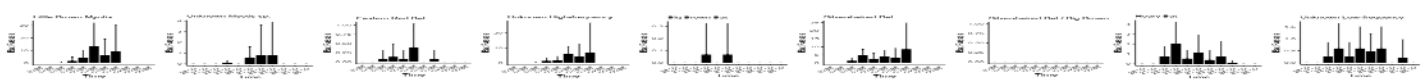
Detector: Cliff 1-control2 **Dates:** 2023-08-15 to 2023-09-01



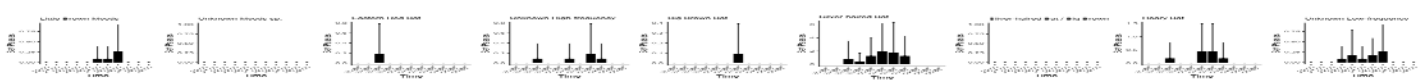
Detector: Cliff 1-control2 **Dates:** 2023-09-01 to 2023-09-20



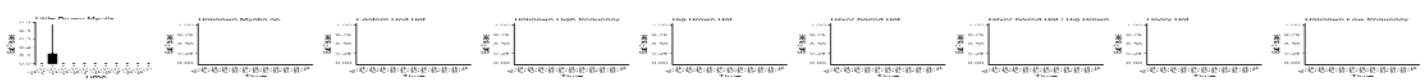
Detector: Cliff 1-control4 **Dates:** 2023-07-15 to 2023-08-01



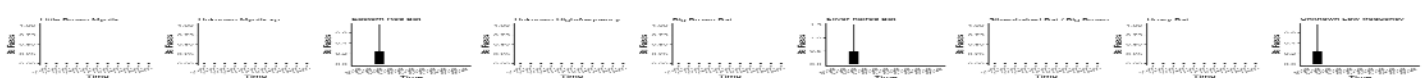
Detector: Cliff 1-control4 **Dates:** 2023-08-01 to 2023-08-15



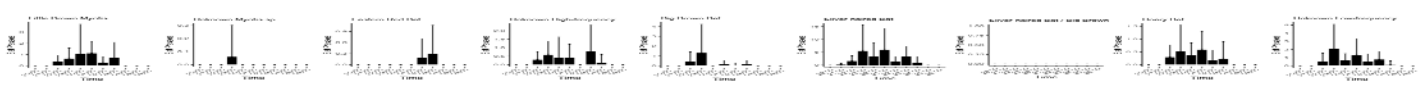
Detector: Cliff 1-control4 **Dates:** 2023-08-15 to 2023-09-01



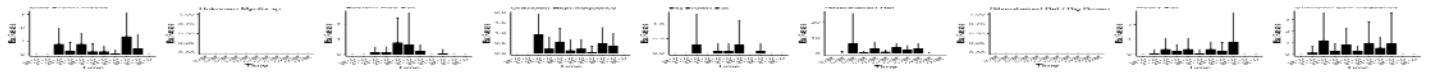
Detector: Cliff 1-control4 **Dates:** 2023-09-01 to 2023-09-20



Detector: Cliff 6-control **Dates:** 2023-07-15 to 2023-08-01



Detector: Cliff 6-control **Dates:** 2023-08-01 to 2023-08-15



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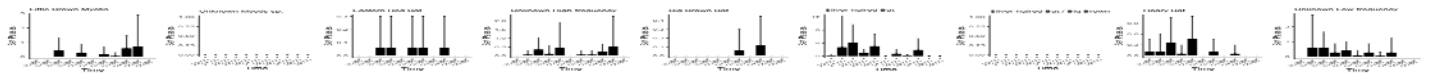

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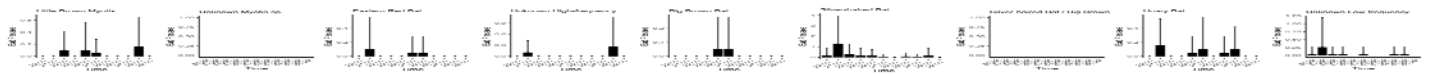

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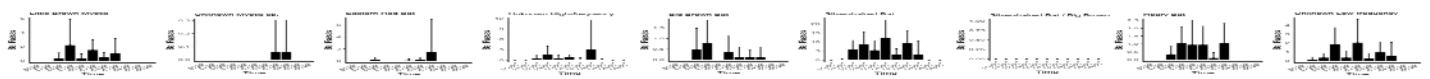

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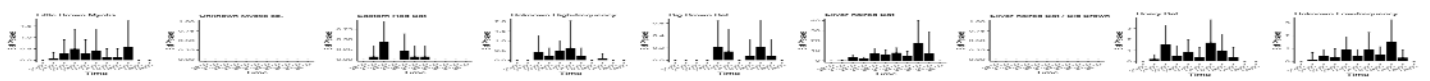

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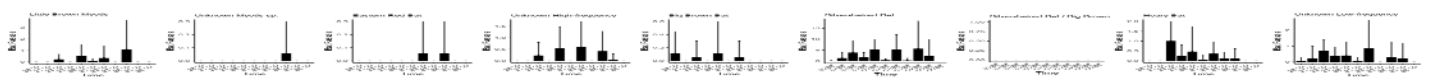

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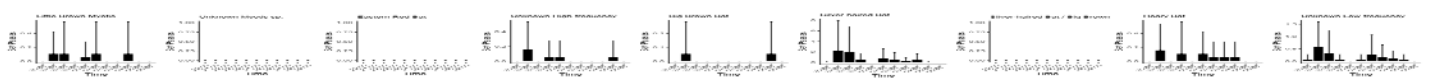

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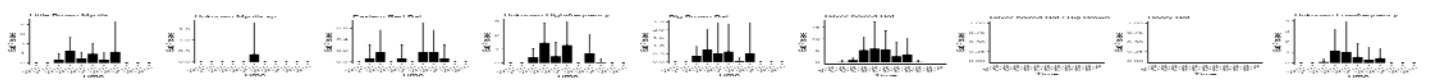

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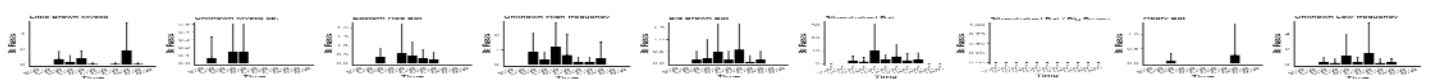

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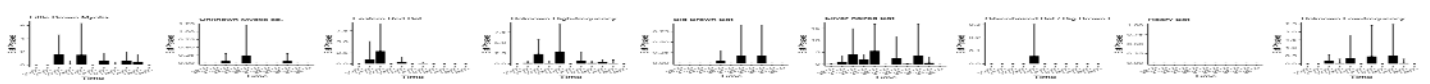

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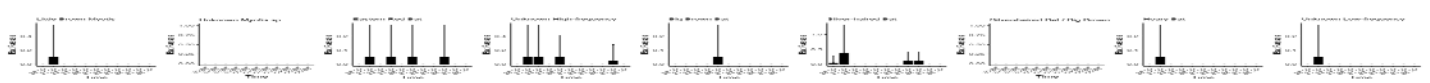

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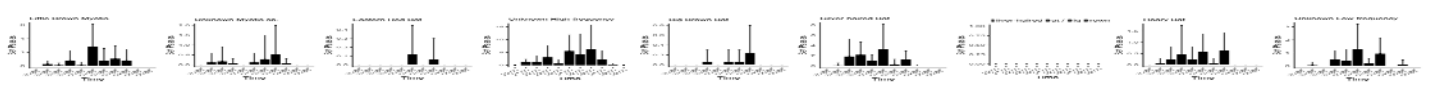

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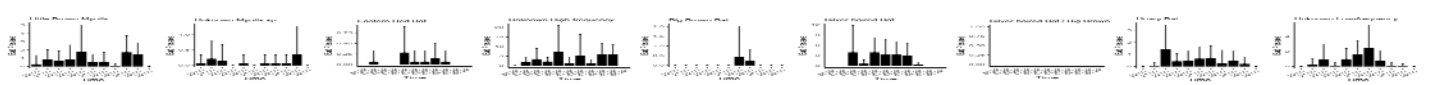

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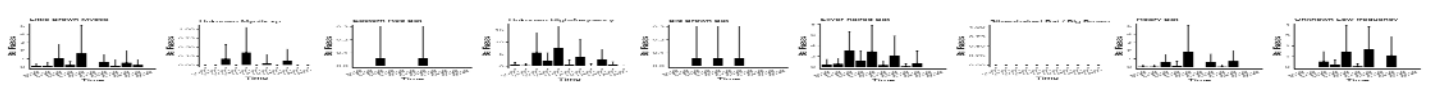

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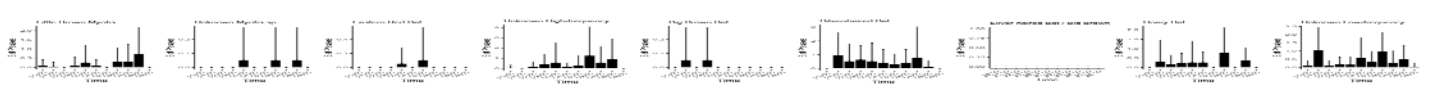

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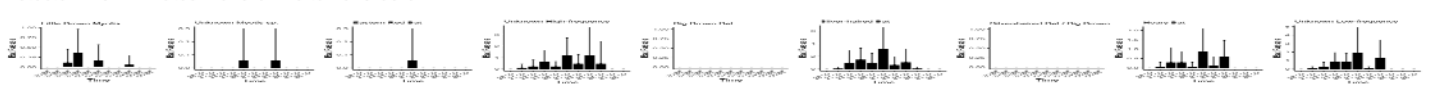

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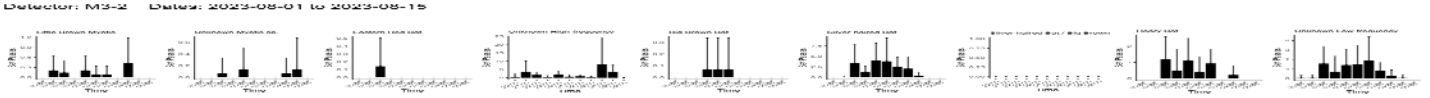

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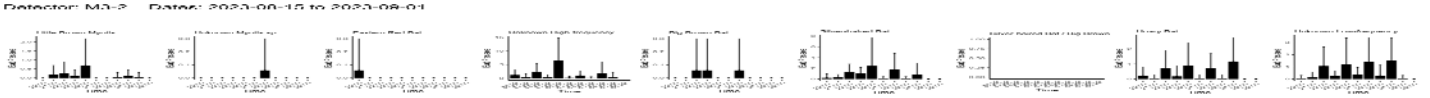

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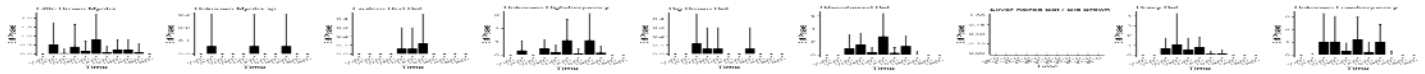

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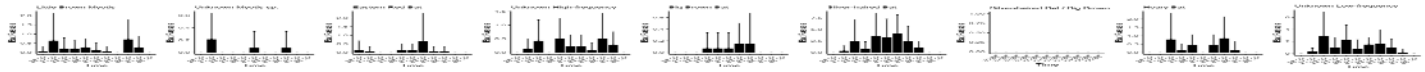

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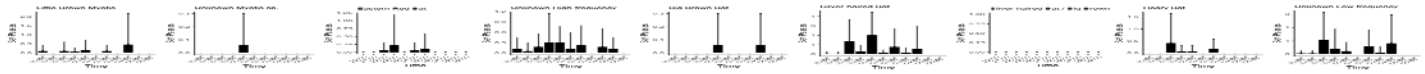

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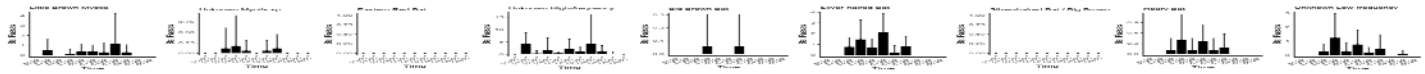

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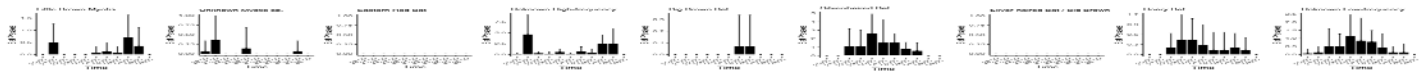

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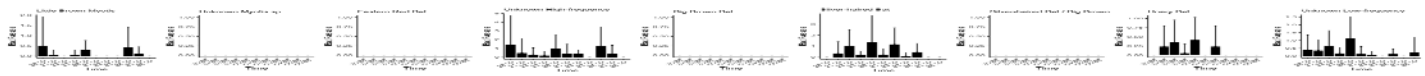

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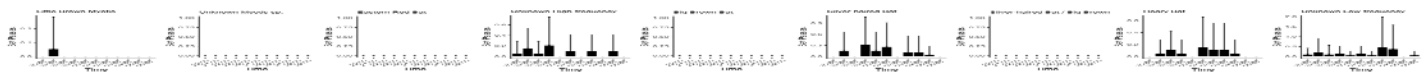

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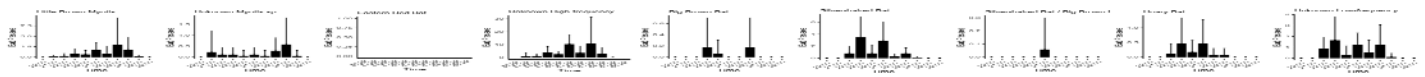

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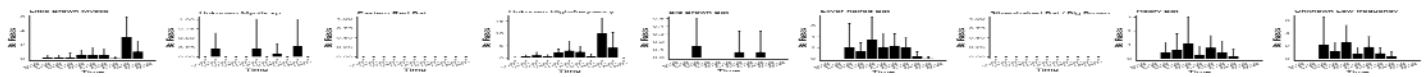

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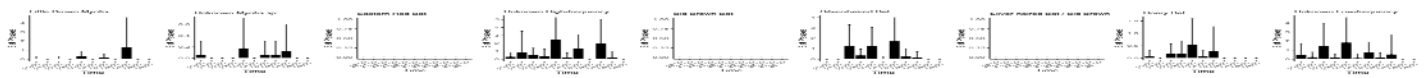

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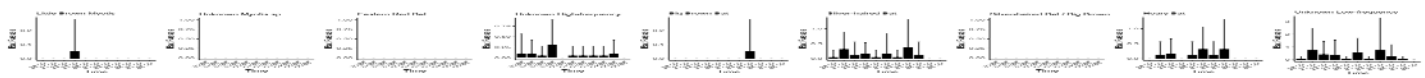

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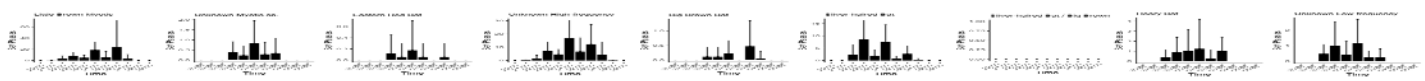

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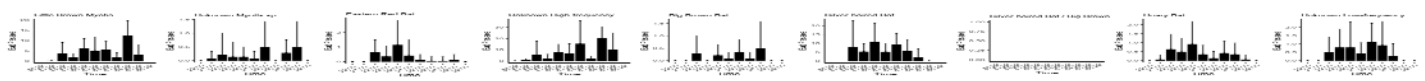

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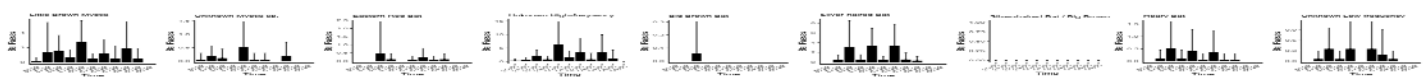

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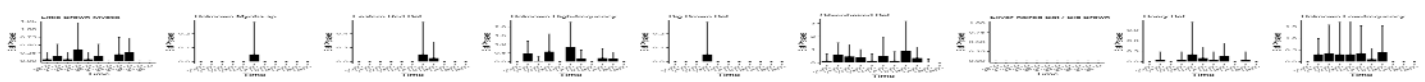

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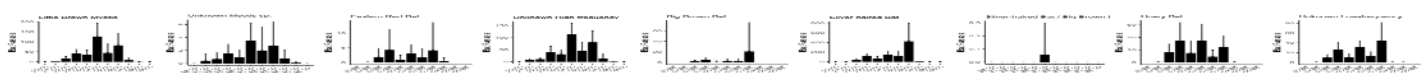

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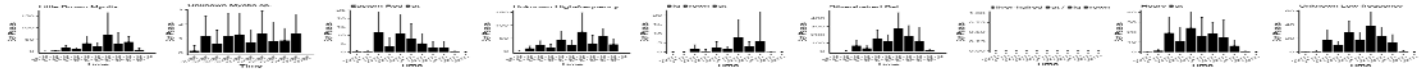

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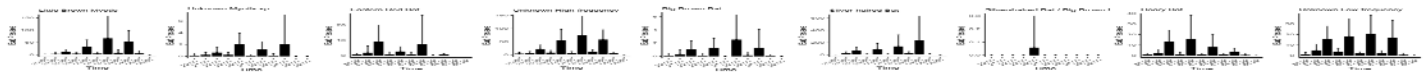

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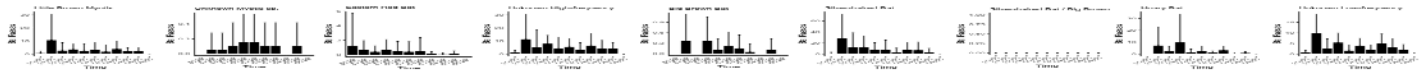

Figure D12. Average activity (+/- SD) during each hour per species for the period of 15 July - 20 September, 2023

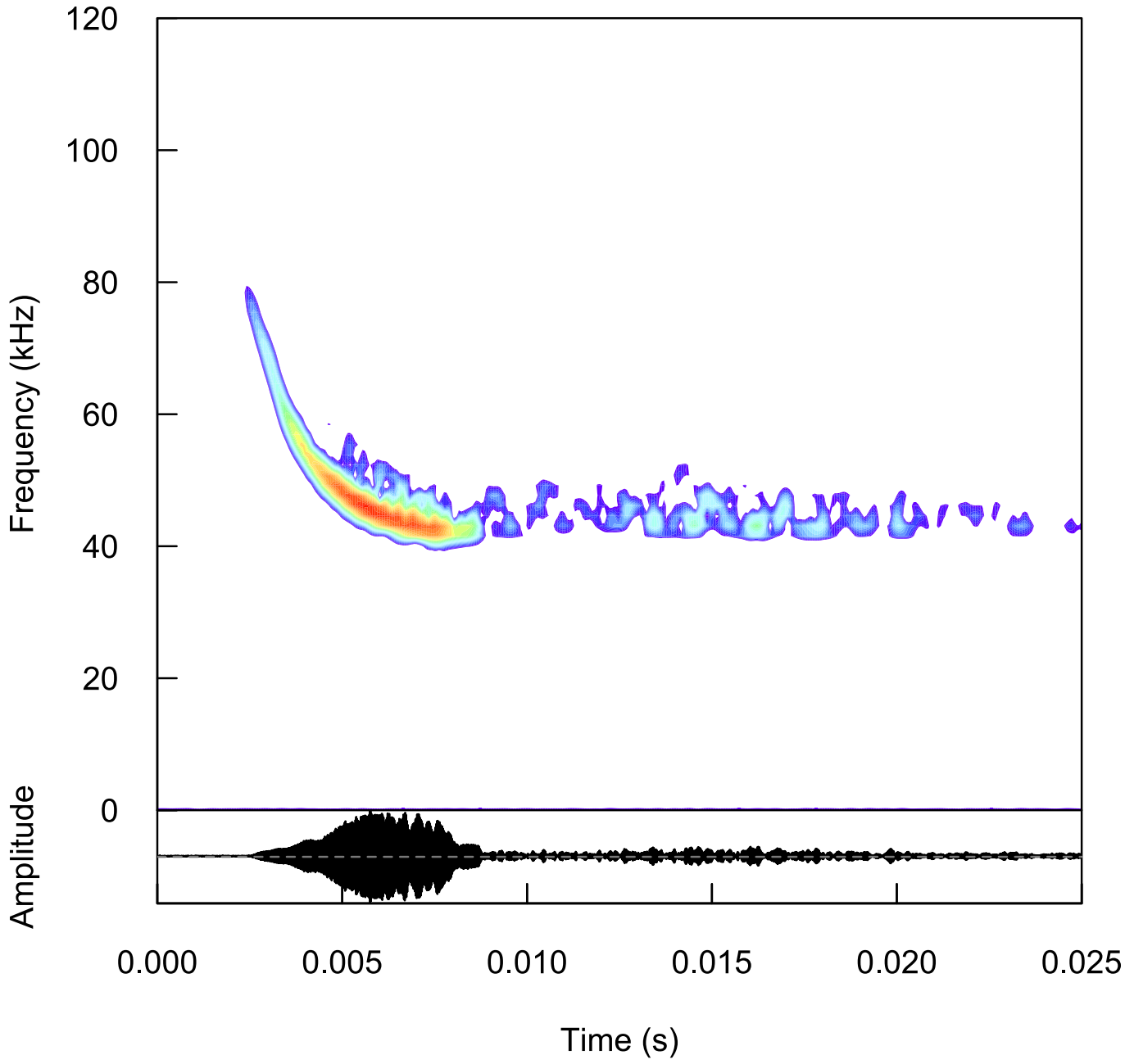

Figure D13. Sonogram of a Eastern Red Bat echolocation call recorded at A28 on the night of June 26, 2021.

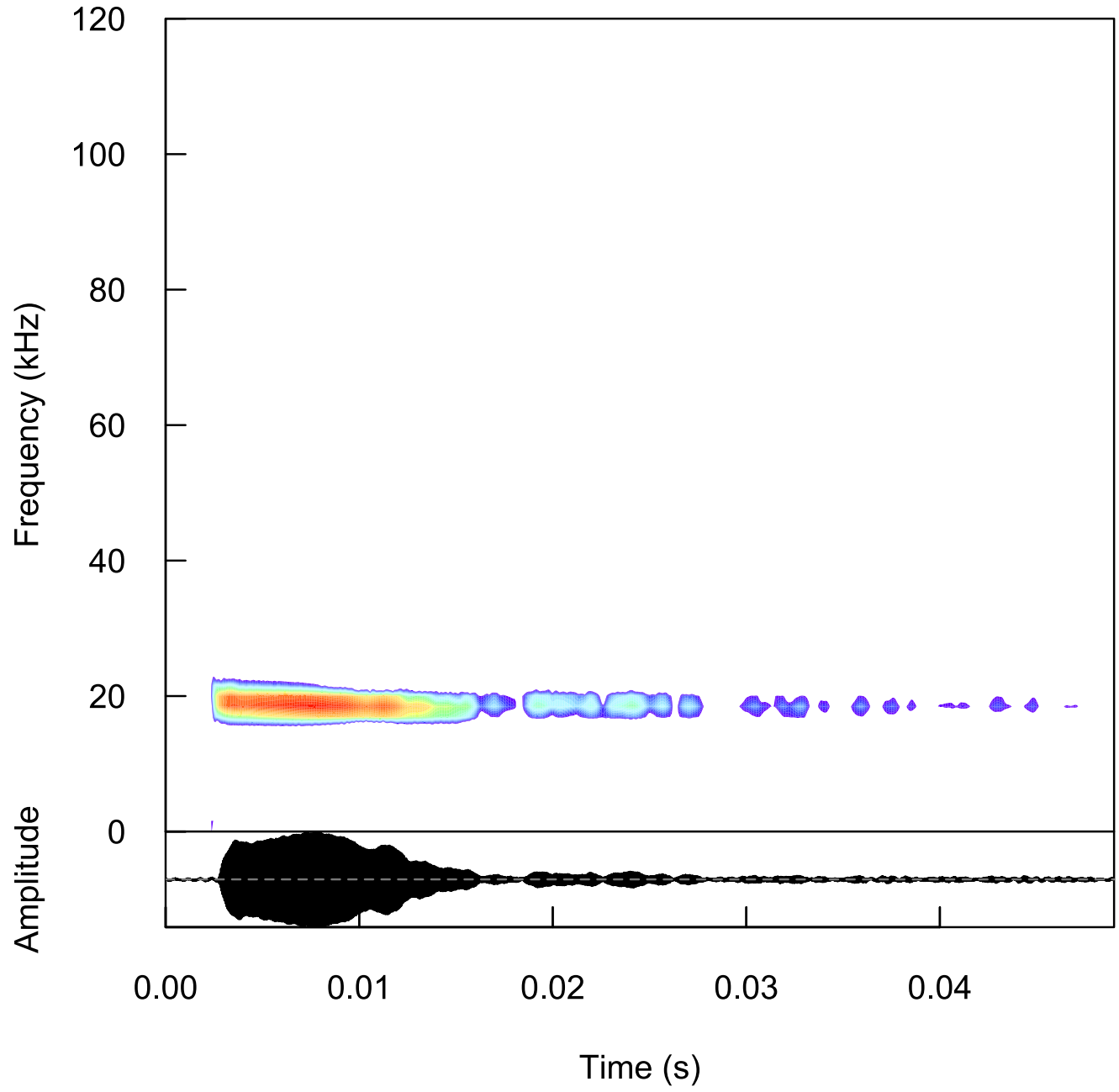

Figure D14. Sonogram of a Hoary Bat echolocation call recorded at A1 on the night of June 01, 2021.

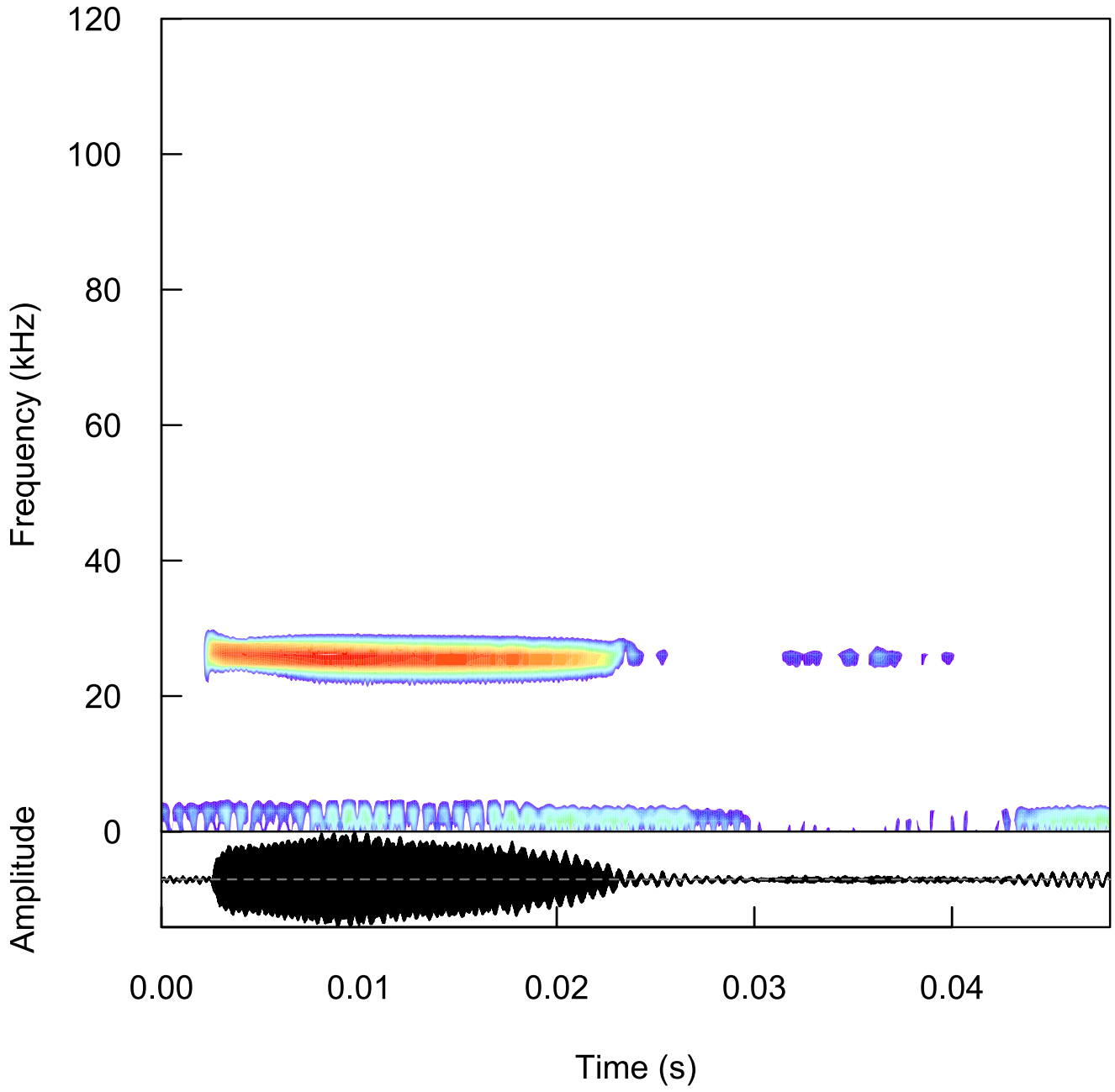

Figure D15. Sonogram of a Silver-haired Bat echolocation call recorded at A1 on the night of June 01, 2021.

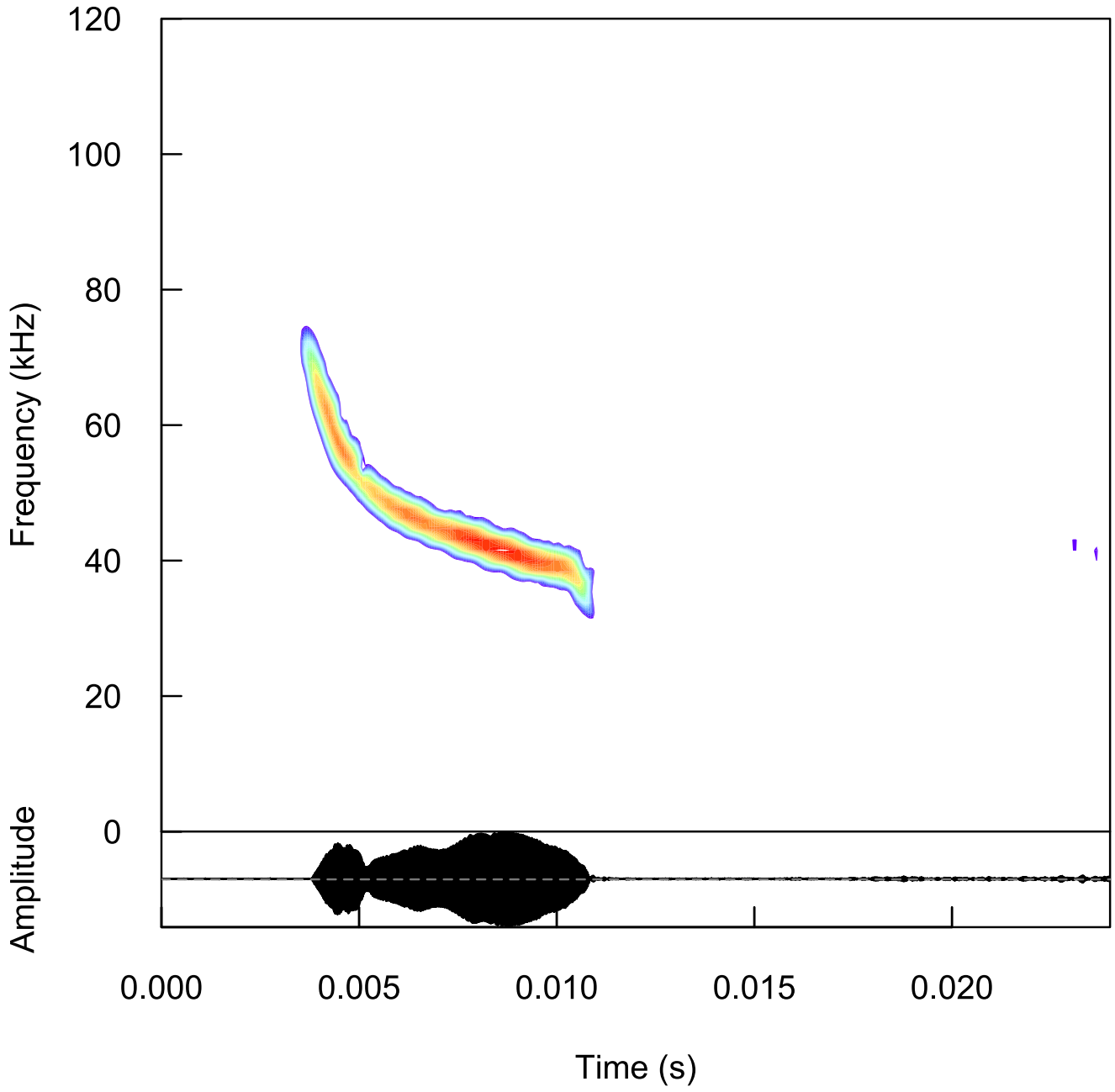

Figure D16. Sonogram of a Little Brown Myotis echolocation call recorded at A11 on the night of June 03, 2021.

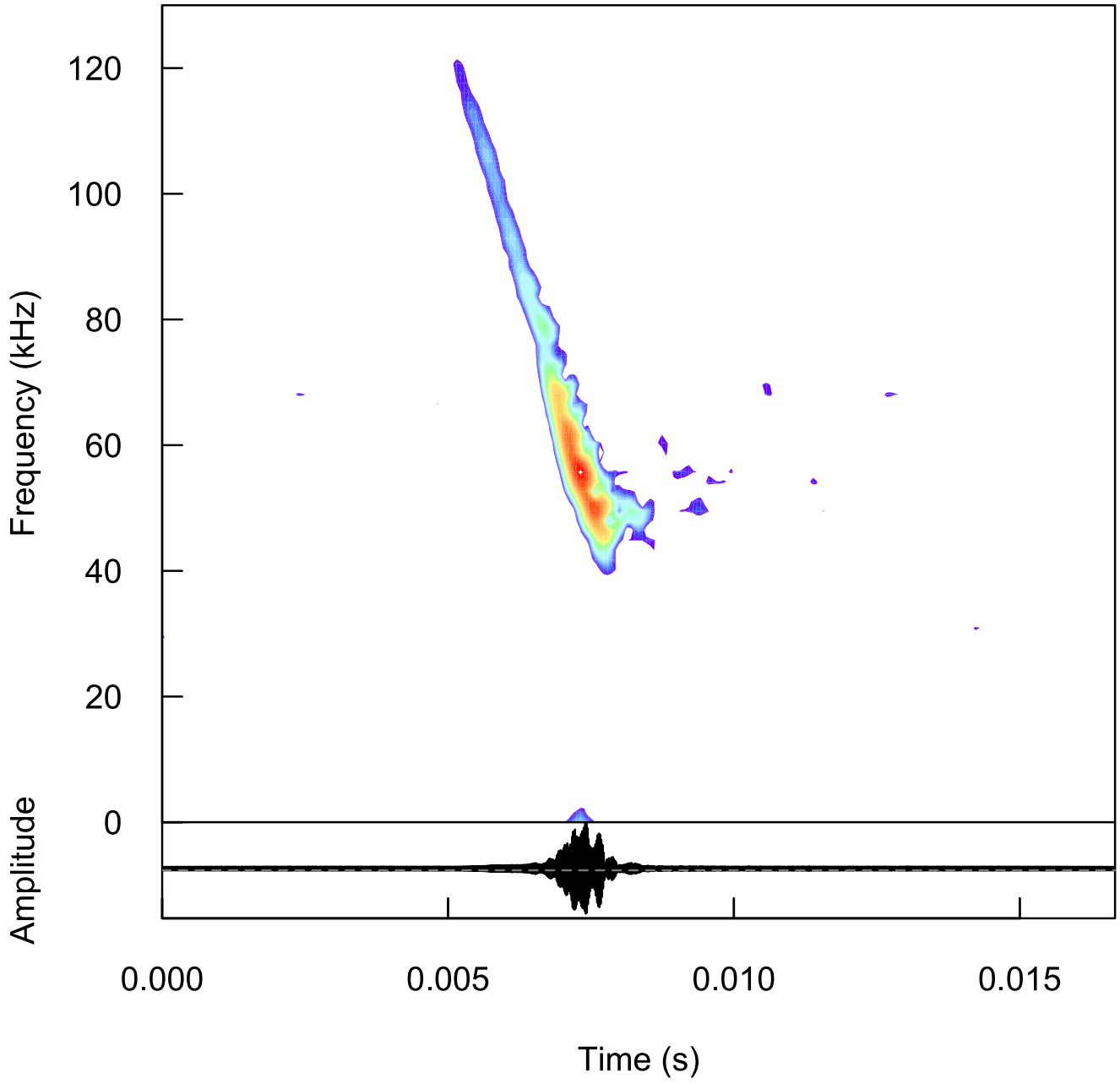

Figure D17. Sonogram of a Northern Myotis echolocation call recorded at C20 on the night of June 19, 2022.

Attachment 5
Significant Wetlands

MEMORANDUM

FEDERAL ENVIRONMENT ASSESSMENT WETLAND EVALUATION
SPRINGPOLE GOLD PROJECT - FIRST MINING GOLD CORP
RED LAKE DISTRICT, NORTHWEST ONTARIO

1.0 INTRODUCTION

First Mining Gold Corp. (FMG) proposes to develop an open pit mine with supporting facilities known as the Springpole Gold Project (Project). The Project is located in a remote area of northwestern Ontario, approximately 110 kilometres (km) northeast of the Municipality of Red Lake and 145 km north of the Municipality of Sioux Lookout. An environmental assessment (EA) pursuant to the *Canadian Environmental Assessment Act, 2012* (CEAA) and the *Ontario Environmental Assessment Act,* 1990 (EAA) is required to be completed for the Project. Several policy and regulatory frameworks apply to the Project beyond the CEAA and EAA, including the *Species at Risk Act,* 2002; Migratory Birds Convention Act, 1994; Endangered Species Act, 2007; Planning Act, 1990; and the Provincial Policy Statement, 2020.

Wetland ecological functions play a critical role in informing environmental assessments for federal projects in Canada, serving as a vital framework to evaluate potential impacts. However, wetlands are complex, and ecological function can be difficult to measure and evaluate systematically. As such, wetland functions assessments have been developed to determine the functions of a wetland in qualitative, semi-quantitative, and/or a quantitative approach. *Ontario Wetland Evaluation System Northern Manual* (OWES; MNRF 2022) is a technical guidance document that provides scientific criteria and procedures to assess the boundaries and perceived ecosystem and human values of wetlands in northern Ontario. However, OWES is not an appropriate tool for a federal EA wetland significance evaluation, as it focuses on wetland values (ecosystem services that wetlands provide to humans) as opposed to wetland function (MNRF 2022). In addition, the OWES manual cannot be used to accurately assess extensive boreal forest wetlands (MNRF 2022). Canada Wildlife Service's technical report series, *Wetland Ecological Functions Assessment: An Overview of Approaches* provides a brief overview of methods that have been developed to assess wetland functions (Hanson et al. 2008). The technical report suggests that function assessments in Canada may be able to use existing established methods (largely developed in the US) to assess wetlands. Although some of the assessment methods have great applicability in Canada, currently, there is not a standardized assessment methodology or regionally calibrated rapid assessment model applicable for assessing wetland function in the boreal region of northern Ontario. While neither of these documents provides specific assessment methods tailored to assessing the function of boreal wetlands, they serve as a starting point for adapting assessment methods. This memo establishes a standardized landscape-level approach for assessing the significance of wetlands within the Springpole Gold Project Study Area relative to other wetlands in the Study Area. This evaluation is conducted using desktop methods and, in some cases, use local field data, to compare the hydrological, biogeochemical, and ecological functions of the wetlands against each other.

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2.0 BACKGROUND

2.1 Springpole Gold Project

The Project occurs in Ecoregion 3S, the Lake St. Joseph Ecoregion, and is relatively dry and cold. In general, the Project Area is rather flat and uniform. Much of the area is covered by open lakes, many of which are relatively shallow and have abundant floating and submerged vegetation at the margins. Vast areas of wetlands primarily consist of bogs and swamps dominated by Black Spruce (wetland communities comprise approximately 18% of both the local study area and regional study area). There are no available records (i.e., provincial data sets) of Provincially Significant Wetlands (PSWs) that occur in the Project Area. Previous fieldwork in 2012 (DST) did not identify significant wetlands in the vicinity of the Project. The purpose of the 2012 wetland evaluations was to acquire baseline data on all wetlands, peatlands, and riparian plant communities, as well as to map and describe wetlands following the OWES. FRI mapping was used to identify wetlands with areas greater than 0.5 ha and based on the potential for impact by development for evaluation. Light Detecting and Ranging (LIDAR) digital images at 1:5000 was used to complete a desktop estimate of boundaries. Site visits (number and dates are unspecified) included ground-truthing boundaries, collecting vegetation and substrate information, and recording the presence of special features (e.g., wildlife and habitat) and fish habitat information. Numerous non-evaluated wetlands have been identified in the area.

2.2 Wetland Function

Wetland functions are natural processes (physical, chemical, biological) associated with wetlands independent of the benefits to humans (Hanson et al. 2008). Wetland values reflect ecosystem services that wetlands provide to humans and the societal values placed upon these services (Hanson et al. 2008). As this evaluation is intended to inform the EA process, wetland value assessments are not considered as they are inadequate for evaluating environmental impact reduction, compensation measures, or prescribing compensatory mitigation requirements for no net loss of function.

Hydrological functions include the moderation of surface water flow, groundwater recharge, erosion control and shoreline protection, and climate regulation (Hanson et al. 2008). Many wetlands are capable of slowing the downslope movement of water, independent of storage capacity, as wetlands are relatively flat areas in the landscape. When wetlands store runoff (and not just slow it), that water is potentially available for recharging aquifers and supporting local food chains. Riparian and floodplain marshes and swamps often provide significant stormwater retention services. A wetland's ability to hold onto or slow down the flow in high precipitation or meltwater events is also related to the erosion control and shoreline protection services it provides. This is particularly important along shorelines to protect from wind and water action and depends on the local substrate. Fens are generally less able to provide this service as they form in low-energy environments, while shoreline marshes are generally a high-performance provider. Groundwater recharge is dependent on the ability of the water stored within a wetland to percolate into the groundwater, and this heavily depends on the wetland's form, substrate, and local groundwater gradients. A wetland's climate regulation services are dependent on the size of the wetland, and the forms of vegetation therein, impacting the evapotranspiration rates of the area; this is typically of low performance in bogs, moderate performance in fens and swamps and high performance in marshes.

Biogeochemical functions include services such as water quality treatment (i.e., sediment, nitrogen, and phosphorous retention), nutrient and organic compound transportation, and carbon sequestration and storage (Hanson et al. 2008). Water quality treatment is related to the physical, chemical, and biological filtering of water through the vegetation and substrate of a wetland and is impacted by the loading rates of sediments, as well as the water balance and hydroperiod. Larger wetlands and wetlands lacking outlets

typically have longer retention times. Shallow open-water wetlands have potentially high performance due to settling, photodegradation and aeration. Marshes, fens, and swamps may also be high-quality performers of these services due to flow and oxidation rates, as well as the high interaction of water with root-bacteria assemblages. The filtering and storage of these nutrient compounds can then be used by bacteria and be transported up the food chain. Bogs are generally rated as low performance.

The key attributes of carbon sequestration and storage services in a wetland are the volume and degree/rate of decomposition of plant material, i.e., the accumulation of peat. Typically, the slower the decomposition rate in a wetland, the more carbon it can store. Larger, woody vegetation is also a considerable carbon store, though on a shorter timescale. Marshes are typically the lowest performers of this service due to their lack of woody vegetation and high rate of metabolism and decomposition. Wetlands with organic substrate, such as bogs, fens and swamps are typically moderate to high performers owing to their accumulation of peat and woody vegetation. Mineral substrate swamps have higher decomposition rates and less accumulated peat, so their carbon storage capacity is primarily due to their woody vegetation.

Habitat or ecological functions supported by wetlands include biological productivity and general support for biodiversity (Hanson et al. 2008). Factors in these functions include species abundance and richness, the presence of significant species such as SAR, locally rare species, and habitats supporting these with particular emphasis on breeding grounds, food sources, and migration routes, as applicable. Local knowledge, database research, or site visitation is generally required to assess these functions of individual wetlands.

3.0 METHODOLOGY

3.1 Study Area

The Study Area, as shown in Figure 1, encompasses the proposed Project footprint and the geographical extent to which effects from the Project may be observed. The Project footprint includes the mine site area, the mine site access road, and the transmission line . The mine site area includes but is not limited to, the footprint of the process plant, shops and other buildings, co-disposal facility, mine rock storage, ore stockpile and crusher, open pit, haul roads and other supporting infrastructure. The mine site access road corridor includes an access road from the process plant to the existing Wenasaga Road. The transmission line corridor includes the 230 Kilovolt (kV) transmission line from the process plant to the Wataynikaneyap 230 kV transmission line. The Study Area aligns with the EA's defined Regional Study Area (RSA) (WSP 2024).

3.2 GIS Methodology

The following summarizes the general data sources and spatial GIS methods used to characterize wetlands in the Study Area. A wetland is defined as an area of land that is saturated with water long enough to promote hydric soils or aquatic processes as indicated by poorly drained soils, hydrophytic vegetation and various kinds of biological activity that are adapted to wet environments (Lee et al. 1998). Desktop delineation of wetlands was conducted using the Ontario Ministry of Natural Resources and Forestry (MNRF) Forest Resources Inventory (FRI, MNRF 2023a) and the Ontario GeoHub, Land Information Ontario, Ontario Hydro Network files (MNRF 2023b) base layers. These base layers represent the most up-to-date ecological spatial data available for the area. The FRI dataset provides information on vegetation community and spatially identifies polygons by Ecosite Code (B-series codes) and the Ontario Hydro Network files provide information related to hydrographic features in Ontario (including watercourses and waterbodies). Various FRI Ecosite Codes were grouped into single wetland communities including coniferous swamp, thicket swamp, deciduous swamp, marsh, or bog and fen (See Table 1). For a more detailed description of FRI Ecosite Codes, see Wood 2024. Although bogs and fens represent distinct Ecosite Codes within the FRI dataset, field work is required for accurate differentiation. As such, for the

purposes of this analysis, they were collectively grouped. There was no minimum size threshold applied to the FRI ecosite polygons. Mapped open water with areas of less than 8 ha, were classified as 'shallow open water' wetlands using waterbody data available on the Ontario Hydro Network files (MNRF 2023b). Shallow open water wetland types are also defined by depths of less than 2 m and presence of vegetation, however, in the absence this data, the entire water body was mapped as a wetland area.

Table 1: Springpole EA Wetland Community Types

Wetland Community Type	FRI Ecosite Code (MNRF 2023a)
Conifer Swamp	• B127 – Organic Poor Conifer Swamp • B128 – Organic Intermediate Conifer Swamp • B129 – Organic Rich Conifer Swamp • B222 - Mineral Poor Conifer Swamp • B223 - Mineral Intermediate Conifer Swamp • B224 - Mineral Rich Conifer Swamp
Thicket Swamp	• B135 – Organic Thicket Swamp
Deciduous Swamp	• B130 - Intolerant Hardwood Swamp • B133 - Hardwood Swamp
Marsh	• B142 – Mineral Meadow Marsh • B148 – Mineral Shallow Marsh
Bogs and Fens	• B126 – Low Treed Bog • B136 – Sparse Treed Fen • B137 – Sparse Treed Bog • B138 – Open Bog • B139 – Poor Fen • B140 – Open Moderately Rich Fen • B141 – Open Extremely Rich Fen • B146 – Open Shore Fen
Shallow Open Water	• Open water vegetation communities were not mapped in the FRI data set. They are generally found in low-lying areas throughout bogs, fens, swamps, and marshes (Pelster et al. 2008).

Wetland communities were further grouped into individual wetland polygons and given unique wetland identification numbers (Wetland IDs). A single wetland may consist of multiple wetland communities dependent on the surrounding community types. A wetland polygon's outermost boundary was defined from other wetlands based on the presence of an existing road (datasets included: Ontario Road Network dataset, MNRF Road Segment dataset and Domtar Trout Lake Forest forestry road data) or other non-qualifying types of ecosites (upland). Wetland analysis included all wetlands that occurred wholly or partially within the boundaries of the Study Area.

The hydrologic setting of each wetland and the distance determination to other wetlands was completed using the Ontario Hydro Network files (MNRF 2023b). Within the Study Area, wetlands were identified as either, isolated, palustrine, or lacustrine. Riverine wetlands, as defined in OWES were absent (MNRF 2022). Apart from isolated sites, a single wetland unit may meet the definitions of both lacustrine and palustrine hydrologic settings. Where a wetland unit was associated with a lake (water body >8ha in size) it was given that specific

category (lacustrine), even though it may also be associated with watercourses. Palustrine wetlands were characterized as wetlands associated with watercourses and/or waterbodies < 8 ha.

Wetlands were analyzed for biodiversity and key habitats by comparing wetland location to spatially mapped SAR species or significant wildlife habitat information determined through field assessments (2021-2023) or through desktop review of the Ministry of Natural Resources and Forestry's Natural Heritage Information Centre (NHIC, MNFR 2023c) and Land Information Ontario (LIO) wildlife value site/area (MNFR 2023b) databases, and Ministry of Environment, Conservation and Park's Caribou Habitat databases (MECP 2023).

3.3 Wetland Function Assessment

A wetland functions assessment considers key information on wetlands important for the environmental assessment of the proposed project (Hanson et al. 2008). The wetland functions assessment is adapted from assessment protocols outlined within the Ontario Wetland Evaluation System Northern Manual (OWES; MNRF 2022) and Wetlands of the Maritime Provinces (Hanson and Chalkins 1996) and reflects the discourse on wetland evaluations from the Canadian Wildlife Service Technical Report Series document: Wetland ecological functions assessment: an overview of approaches (Hanson et al. 2008).

3.3.1 Evaluation Criteria

This methodology was developed to determine a given wetland's functional effectiveness relative to other wetlands in the Study Area. As such the value of any wetland must be viewed in proper context; noting that the wetland's score only has meaning in relation to the scores of other wetlands within the Study Area (not as an absolute). The significance evaluation compared wetlands along well-accepted indicators for wetland functionality. Similar to the wetland evaluation system for maritime provinces (New Brunswick, Nova Scotia & Prince Edward Island), various criteria were selected and given a rating system. Seven criteria were evaluated focused on a wetland's size, complexity, physiographic position, and biodiversity. Each criterion has specifications describing three or more possible categories into which a given wetland may be placed. Specifications have been assigned ranks, ranging from three (highest value) to one (lowest value). During evaluation a wetland receives a rank for each of the criteria. The model acknowledges some criteria are more important than others; as such, each has been given a fixed numerical value called a significance coefficient, ranging from 5 (most important criteria) to 2 (least important criteria). A sub-score is calculated for each criterion by multiplying the significance coefficient for that criterion by the rank given. Scores for all criteria are summed and a total wetland score is obtained. The lowest possible total score is 32 and the highest is 96. This implies that all wetlands provide some wetland function. For some criteria, there are five categories of specifications and five corresponding ranks (3.0, 2.5, 2.0, 1.5, and 1.0). For other criteria, where knowledge or measurement ability is less refined, only three categories of specifications and ranks (3.0, 2.0, and 1.0) are recognized. Criteria, ranks, and significance coefficients are presented in Table 2. Based on the results of the significance evaluation, wetlands scored in the 99% percentile were deemed "Significant". A brief description of each of the criteria follows:

1) **Wetland Size**: Wetland size is an important factor as larger wetlands generally have a greater capacity to support diverse habitats, species, and ecological processes. Larger wetlands may also provide more significant ecosystem services, such as flood storage or water purification. As such, wetland size can be used as an indicator for hydrologic, biogeochemical, and ecological functions. Individual wetland size was calculated in hectares using GIS. Wetlands are ranked from largest to smallest, according to the general principle that as size increases so does significance.

2) **Dominant Wetland Type - Rareness**: Different wetland types support distinct ecological processes and provide diverse ecosystem services. If a wetland type is rare to the ecoregion, the species adapted to these ecosystems are also locally rare. According to OWES, In Ecoregion 3S (Lake St. Joseph

Ecoregion) marsh and swamp wetland types account for between 10% and 30% of the total wetland area in the region, fens between 30% and 50%, and bogs account for more than 50% (MNRF 2022). In addition, based on a review of all FRI community ecosites in the Study Area, deciduous swamp ecosites were determined to be a locally rare and uncommon community series and were ranked highest (MNRF 2023a). Wetland rareness can be used as an indicator of ecological functions. For ease of analysis, the wetland will be scored for this indicator based on the dominant class (the class that occupies the greatest area). The dominant wetland type per unit is identified through the largest area value of a multi-type contiguous wetland.

3) **Number of Wetland Types / Wetland Class Richness**: Various wetland community types were identified for the Study Area, including coniferous swamp, deciduous swamp, thicket swamp, marsh, shallow open water, fen or bog. The more wetland types that are present within a single wetland, the more diverse the habitat available. Hence a wetland's function value increases as the number of classes increases. Hanson and Chalkins (1996) considered wetland class richness the broadest and single most important criterion for a significance evaluation. Wetland class richness can be used as an indicator of ecological functions.

4) **Hydrologic Setting**: The hydrologic setting field utilized the Ontario Hydro Network files (MNRF 2023b) for the category determination. According to OWES, wetlands can occupy different landscape positions, including isolated (depressional), palustrine (permanent or intermittent outflow), and riverine or lacustrine (MNRF 2022). The hydrologic setting of a wetland strongly influences its productivity based upon different sources supplying nutrients. The degree of connectivity affects water availability, nutrient cycling, and the movement of species within and between wetlands. Isolated and palustrine sites are considered to have low productivity since they rely on rainfall, some overland flow, or groundwater seepage to supply nutrients. Using this rationale, site types were grouped into three categories for evaluation. Wetland hydrologic setting can be used as an indicator for hydrologic, biogeochemical, and ecological functions.

5) **Biodiversity**: Biodiversity is often considered the most important criterion as wetlands are known for their high species richness and unique ecological communities. Wetlands provide critical habitat for a wide range of plants, animals, and microorganisms, contributing to overall ecosystem health and functioning. The highest ratings for biodiversity were based on the greatest number of documented species at risk (SAR) species observed within a 100 m radius of the subject wetland. SAR species information was collected through the Natural Heritage Information Centre (NHIC) database (MNFR 2023c) or fieldwork. The Biodiversity field included all mapped SAR and species of conservation concern locations available, including Old World Swallowtail, Subarctic Darner, Wolverine, Caribou (limited to incidental sightings and aerial survey group sightings from 2021, 2022 and 2023), Little Brown Myotis, Alpine Woodsia, Black Ash, Floating Marsh-marigold, Nahanni Wood Fern, Northern Marsh Violet, Bald Eagle, Barn Swallow, Canada Warbler, Common Nighthawk, Olive-sided Flycatcher, Rusty Blackbird and Eastern Whip-poor-will. Biodiversity can be used as an indicator of ecological functions.

6) **Proximity to Other Wetlands***: Proximity to other wetlands or other water bodies is important for understanding landscape-scale connectivity and the potential for wetland networking. Wetlands in close proximity can provide corridors for species movement and facilitate gene flow. They can also enhance overall ecological resilience. The proximity to other wetlands field utilized the Ontario Hydro Network files provided by Ontario GeoHub (Land Information Ontario, MNRF 2023) for the distance determination. Distances were measured in GIS from a straight line from the outer boundary of the wetland to the closest adjacent wetland. The categories are ranked from highest to lowest as follows, using the Hydrologic Setting Assigned to each wetland from Bullet 4:

- Palustrine or Lacustrine wetlands, hydrologically connected by surface water to other wetlands, open lake, or deep river within 4 km;
- “Isolated” wetlands within 1 km of other wetlands, open lakes, or deep rivers, but not hydrologically connected by mapped surface water (as per Ontario Hydro Network dataset, MNRF 2023b);
- “Isolated” wetlands with no other wetlands, open lakes, or deep rivers within 1 km.

Proximity to other wetlands is a factor in both hydrologic and ecological functions.

7) **Proximity to Key Habitats**: Wetlands near important habitats can provide critical support for species movement, nesting, or foraging, making them ecologically significant. Wetlands that intersect significant wildlife habitat, LIO wildlife value site/area (e.g., Nesting Sites, MNRF 2023b, MECP 2023), or other key habitats identified in the field, are scored higher than wetlands which do not. Key habitat for this category was limited to Osprey Habitat, Eagle Habitat, Colonially Nesting Bird Breeding Habitat (ground), Colonially Nesting Bird Breeding Habitat (tree/shrub), Marsh Bird Breeding Habitat, Aquatic Feeding Habitat (moose), Bat Maternity Colony Habitat, Winter Caribou Habitat (Ministry of Environment, Conservation and Parks [MECP] Category 1 Habitat and relative high density observation areas from winter aerial surveys from 2021, 2022 and 2023), and Nursery/calving Caribou Habitat (MECP Category 1 habitat and 65% probability kernel contours from 2023 telemetry data). Proximity to key habitat is an indicator of ecological functions.

475000 500000 525000 550000 575000 600000 625000 650000 675000

5700000 5675000 5650000 5625000

Bertrand Lake
Carillon Lake
Kapikik Lake
Gitche Lake
Dobie Lake
Meen Lake
Zionz Lake
Fawcett Lake
Wright Lake
Obaskaka Lake
Fry Lake
Shabumeni Lake
Woman Lake
Narrow Lake
Trout Lake
Okanse Lake
Joyce Lake
Confederation Lake
Jeanette Lake
Uchi Lake
Little Trout Lake
Slate Lake
Whitemud Lake
Otatakan Lake
Bruce Lake
Bluffy Lake
Wenasaga Lake
Lake St. Joseph
Blackstone Lake
Doran Lake
Churchill Lake
Miniss Lake
Minchin Lake
De Lesseps Lake
St. Raphael Lake
St. Raphael River

SLATE FALLS NATION

Ear Falls to Pickle Lake (E1C)

Wataynikaneyap Transmission Line

5136 4977 4916 4815 4823 5112 4903 4728 4638 4653 4687 4655 4583 4506 4518 4534 4524 4362 4428 4278 4060 4396 4317 4370 4322 4183 4161 4080 3948 3865 4329 3983 4488 3895 3660 3573 3530 3458 3368 3500 3492 3357 3373 3300 3289 3279 3825 3687 3022 3090 2856 3012 2709 2538 2517 2620 2477 2395 2340 2383 2265 2217 2239 2185 2362 2200 2122 1950 2186 2040 1857 2066 1948 1840 1720 1596 1637 1731 1471 1559 1237 1407 1187 1117 1041 877 868 876 807 790 656 620 469 454 234 599

LEGEND

- Proposed Mine Features
- Study Area
- Existing Road
- Existing Winter Road
- Existing Transmission Line
- First Nation Reserve
- Watercourse
- Waterbody

Identified Significant Wetlands, by dominant type (labelled with wetland ID)

- Coniferous Swamp
- Bog and Fen
- Marsh

0 10 20 40 60 80 100 Kilometres

NOTES:
- Topographic information extracted from LIO, NDMNRF.

Datum: NAD83
Projection: UTM Zone 15N

N W E S

FIRST MINING GOLD

WSP

SPRINGPOLE GOLD PROJECT

Federal Environment Assessment Significant Wetlands

PROJECT N°: ONS2104 | **FIGURE: 1**

SCALE: 1:500,000 | DATE: December 2023

Table 2: Springpole EA Wetland Significance Evaluation Scheme

Factor (Significance Coefficient)	Rank = 3.0	Rank = 2.5	Rank = 2.0	Rank = 1.5	Rank = 1.0
Wetland Size Category (5)	200 + ha Score = 15	40+ to -200 ha Score = 12.5	10+ -40 ha Score = 10	2+ -10 ha Score = 7.5	<2 ha Score = 5
Dominant Wetland Type **(5)**	Deciduous Swamp Score = 15		Shallow Open Water, Marsh, Coniferous or Thicket Swamp Score = 10	Bog and Fen Score = 5	
Number of Wetland Types/ Wetland Class Richness (Coniferous, Deciduous or Thicket Swamp, Marsh, Shallow Open Water, Bog and Fen) **(5)**	Five + Score = 15	Four Score = 12.5	Three Score = 10	Two Score = 7.5	One Score = 5
Hydrologic Setting **(5)**	Lacustrine Score = 15		Palustrine (permanent or intermittent flow) Score = 10	Isolated Score = 5	
Biodiversity **(5)**	5+ Species Score = 15	3-4 Species Score = 12.5	2 Species Score = 10	1 Species Score = 7.5	Range Overlap, but no records of species Score = 5
Proximity to Other Wetlands **(2)**	Surface water connection to lake/ river /other wetland within 4 km Score = 6		No surface water connection. Within 1 km to lake/ river/ other wetland Score = 4	No surface water connection. > 1 km to lake/ river/ other wetland Score = 2	
Proximity to Key Habitats **(5)**	200+ Score = 15		1+ to -200 Score = 10	0 Score = 5	

3.4 Assumptions

Wetland delineation, wetland class richness, and hydrologic setting categorization was performed using desktop GIS methods. This process utilized the most recent FRI ecosite (MNRF 2023a) mapping and Ontario Hydro Network files (MNRF 2023b). The delineation and categorization process for FRI datasets is inherently dynamic, typically involving the collection of multi-spectral digital aerial photos at scales ranging between 1:10,000 and ~1:20,000 for extensive areas. While this data is invaluable, the accuracy of the data is contingent on the quality and resolution of the original aerial photos, and it's important to acknowledge potential limitations. The reliance on aerial imagery and desktop methods may not capture the full complexity and variability of wetland ecosystems. Subtle features or changes in the landscape, which impact wetland functionality, may not be discernible at the used scales. The use of some imaging techniques (e.g., radar) cannot accurately distinguish between bogs and fens (Pelster et al. 2008). Also, static datasets may not adequately represent the dynamic nature of wetlands, which can be influenced by seasonal variations and longer-term ecological changes.

The assessment process necessitated making certain assumptions and generalizations due to the lack of site-specific information for each wetland polygon. These assumptions were largely based on the ecosites from the MNRF datasets. For instance, although a community with open water would not necessarily be classified as a shallow open water wetland type, in the absence of water body depth information, a conservative approach was adopted to include any open water features under 8 ha in size. Similarly, the categorization of hydrologic setting only considered mapped hydrology layers (MNRF 2023b). Palustrine wetlands (defined by permanent or intermittent outflows) could have unmapped surface water connections, however, topographic data was not precise enough for the area to infer, and a review of each individual wetland at that scale was not feasible for this assessment. Furthermore, without specific locations of culverts or hydrological assessments at existing roadways, it was assumed that the hydrology was impacted by roads, leading to fragmentation of the wetland at the road location. These assumptions and generalizations were necessary due to the extensive coverage of wetlands in the area and the remote locations where these wetlands occur.

The evaluation of biodiversity and proximity to key habitats could be influenced by selection bias. This is because a more comprehensive dataset was gathered from, or adjacent to, the proposed Project footprint, compared to the peripheral regions of the RSA. This increase in field surveys in certain areas may lead to those select areas being overrepresented in the dataset. SWH polygons are screened for in the 2023 Baseline (WSP 2024), and for confirmed types, all FRI ecosites meeting indicator species and defining criteria are represented. However, these are only two of the seven available metrics considered for ecological function.

4.0 RESULTS

A total of 5,140 wetlands were identified within the Study Area, and of those, 95 were identified as significant. Within the Study Area, the significant wetlands exhibited similar characteristics in terms of their dominant type, geographical position, size, and complexity. The majority of significant wetlands were classified as coniferous swamp dominant, making up 98% of the total (93 of 95). Coniferous swamp wetlands are dominated by coniferous trees such as Black Spruce, Eastern Hemlock or Tamarack (MNRF 2022). Swamps typically exhibit standing or gently flowing waters, either seasonally or for extended durations. The substrate is generally saturated with water and subsurface flow may be present (MNRF 2022). The water's pH ranges from neutral to moderately acidic (MNRF 2022). Swamps, characterized by high rates of primary production and decomposition and low rates of peat accumulation, are typically more nutrient-dense than fens and bogs (Pelster et. al 2008). In the Lake St. Joseph Site Region and District, swamp and marsh wetland types were noted as regionally less common (MNRF 2022). If a wetland type is rare to the ecoregion, the species adapted to these ecosystems may also be locally rare.

Boreal wetlands act as key interfaces between terrestrial and aquatic ecosystems and are characterized by significant biodiversity and endemism (Pelster et al., 2008). Each of the significant wetlands occupied a lacustrine hydrologic setting (wetlands influenced by lake waters). Unlike isolated and palustrine locations whose productivity is dependent on rainfall, overland flow, and/or groundwater seepage, lacustrine wetlands' nutrient supply is influenced by changes in lake level and water flushing (MNRF 2022). They are not anticipated to be deficient in oxygen or mineral nutrients (MNRF 2022). Riparian swamps near floodplains and lakes may trap and deposit sediment and reduce high-energy flows and waves, providing shoreline and erosion protection and hydrological functions (Hanson et al. 2008). Also, access to permanent open water is an important factor to many species, increasing wetland quality and habitat diversity (MNRF 2022, Hanson et al. 2008).

Significant wetlands had 3 to 6 different wetland community types present (100%) and generally extended over 200 ha (88%). Larger wetlands are generally more likely to contain various valued features (MNRF 2022). In addition, wetlands with greater wetness richness have a greater diversity of the habitat available (MNRF 2022). The 95 significant wetlands (~2% of the total wetlands identified), intersected a total of 133 Species at Risk Observations and 8,374 significant wildlife polygons, which made up 54% of the total observation points and 38% of the total key wildlife habitats.

In the context of climate regulation and carbon sequestration, boreal wetlands serve as crucial global carbon reservoirs (Pelster et. al 2008). Wetlands characterized by an organic substrate, such as bogs, fens, and swamps, typically exhibit moderate to high performance in terms of carbon sequestration due to their ability to accumulate peat and woody vegetation, which are substantial carbon sinks (Hanson et al. 2008). Mineral substrate swamps, despite having higher decomposition rates and less accumulated peat, still possess notable carbon storage capacity. This is largely attributed to their abundant woody vegetation, which serves as a significant carbon reservoir (Hanson et al. 2008).

The Project footprint intersects with 12 significant wetlands. Details about these wetlands, including their identification numbers, total area, and the area impacted by the Project (i.e., the area where the wetlands overlap with the Project footprint), are provided in Table 3. For each wetland, the area of impact is presented in both hectares and as a percentage of the total wetland area.

Table 3: Summary of Significant Wetlands Impacted by the Project

Wetland ID	Dominant Wetland Type in Wetland Unit	Total Wetland Area (ha)	Area of Impact (ha)	% of Wetland Impacted
1948	Coniferous Swamp	6666.44	19.15	0.3
2122	Coniferous Swamp	3211.10	10.10	0.3
2186	Coniferous Swamp	369.77	3.93	1.1
3279	Coniferous Swamp	1160.02	5.10	0.4
3492	Coniferous Swamp	1067.38	6.72	0.6
3500	Coniferous Swamp	703.70	10.31	1.5
3983	Coniferous Swamp	173.48	2.40	1.4
4329	Coniferous Swamp	359.20	11.10	3.1
4488	Coniferous Swamp	4255.63	5.26	0.1
4653	Coniferous Swamp	532.42	11.64	2.2
4728	Coniferous Swamp	100.33	2.41	2.4
4823	Coniferous Swamp	912.20	1.78	0.2

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Attachment 6
Significant Wildlife Habitat Screening

SWH Screening 3S using the Draft 3W Schedule
Confirmed: Documented through ministry mapping or other information sources or through fieldwork
Candidate: Vegetation communities and indicator species documented on site through information sources or fieldwork
Not Present: Either vegetation communities and/or indicator species are not documented on site through information sources or fieldwork

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
Seasonal Concentration Areas					
Waterfowl Stopover and Staging Areas: Terrestrial (Rationale – Habitat important to migrating waterfowl)	Brant Cackling Goose Canada Goose Snow Goose Ross's Goose Tundra Swan Trumpeter Swan Wood Duck Gadwall American Wigeon American Black Duck Mallard Blue-winged Teal Northern Shoveler Northern Pintail Green-winged Teal Other: Sandhill Crane	Focus on sites that have appropriate vegetation and highest likelihood of seasonal water accumulation. B060-062 B077-079 B093-095 B109-111 Plus evidence of annual spring flooding from melt water or run-off within identified Ecosites.	Open areas with sheet water during Spring (mid-March to June or September to November). Areas with flooding during spring melt and run-off provide important invertebrate foraging habitat for migrating waterfowl. Cultivated fields with waste grains are commonly used by waterfowl, these are not considered SWH.	Studies carried out and verified presence of an annual concentration of any listed species, evaluation methods to follow "Bird and Bird Habitats: Guidelines for Wind Power Projects" • Any mixed species aggregations of 100 or more individuals required • The flooded field ecosite habitat plus a 100-300m radius, dependent on local site conditions and adjacent land use is the significant wildlife habitat • Annual use of habitat is documented from information sources or field studies (annual use can be based on studies or determined by past surveys with species numbers and dates) • SWH MIST Index #7 provides development effects and mitigation measures.	**Not Present** No large fields with standing water in the spring are present (ecosites not present). Field data recorded Canada Goose, Mallard, Sandhill Crane, Trumpeter Swan OBBA regional data and previous records: American Black Duck American Wigeon Blue-winged Teal Canada Goose Gadwall Green-winged Teal Mallard Northern Pintail Northern Shoveler Sandhill Crane Snow Goose Trumpeter Swan Wood Duck
Waterfowl Stopover and Staging Areas: Aquatic (Rationale – Important for local and migrant waterfowl populations during the spring or fall migration or both periods combined. Sites identified are	Brant Cackling Goose Canada Goose Greater White-fronted Goose Snow Goose Ross's Goose Tundra Swan Trumpeter Swan Wood Duck Gadwall American Black Duck	B142-152	•Ponds, marshes, lakes, bays, coastal inlets and watercourses used during migration. Sewage treatment ponds and storm water ponds do not qualify as a SWH, however a reservoir managed as a large wetland or pond/lake does qualify •These habitats have an abundant food supply (mostly aquatic invertebrates and vegetation in shallow water). •Sites with wild rice have a high likelihood of being a waterbird stopover and staging area.	Studies carried out and verified presence of: • Aggregations of 100 or more of listed species for 7 days, results in >700 waterfowl use days (use days are the accumulated number of waterbirds counted per day over a 7 day period during fall or spring migration period). •Areas with annual staging of ruddy ducks, canvasbacks, trumpeter or tundra swans are SWH • The combined area of the ELC ecosites and a 100m radius area is the SWH	**Candidate** Some ecosites present, B142, B148, B150, B152 and some waterfowl were observed in low numbers on waterbodies throughout the study area, especially smaller, shallower lakes, but at no site were unusually large numbers noted.

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
usually only one of a few in the eco-district)	American Wigeon Mallard Blue-winged Teal Northern Shoveler Northern Pintail Green-winged Teal Canvasback Redhead Ring-necked Duck Lesser Scaup Greater Scaup Harlequin Duck Surf Scoter White-winged Scoter Black Scoter Long-tailed Duck Bufflehead Common Goldeneye Common Merganser Hooded Merganser Red-breasted Merganser Ruddy Duck *Others*: Red-necked Grebe American Coot Sandhill Crane Common Loon Red-throated Loon *Special Concern under Ontario's Endangered Species Act, 2007:* Horned Grebe			• Wetland area and shorelines associated with sites identified within the SWHTG Appendix K are significant wildlife habitat. • Evaluation methods to follow "Bird and Bird Habitats: Guidelines for Wind Power Projects" • Annual Use of Habitat is Documented from Information Sources or Field Studies (Annual can be based on completed studies or determined from past surveys with species numbers and dates recorded). • SWH MIST Index #7 provides development effects and mitigation measures.	Field data recorded: Canada Goose Common Goldeneye Common Loon Common Merganser Hooded Merganser Mallard Ring-necked Duck Sandhill Crane Trumpeter Swan Common Loon and Sandhill Crane were the most documented, but numbers were dozens and not hundreds. OBBA regional data and previous records: American Black Duck American Coot American Wigeon Blue-winged Teal Bufflehead Canada Goose Common Goldeneye Common Loon Common Merganser Gadwall Greater Scaup Green-winged Teal Hooded Merganser Horned Grebe Lesser Scaup Mallard Northern Pintail Northern Shoveler Red-breasted Merganser Red-necked Grebe Ring-necked Duck Sandhill Crane Snow Goose Trumpeter Swan White-winged Scoter

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
					Wood Duck
Shorebird Migratory Stopover Area (Rationale: High quality shorebird stopover habitat is extremely rare and typically has a long history of use.)	Black-bellied Plover American Golden-Plover Semipalmated Plover Killdeer Whimbrel Hudsonian Godwit Marbled Godwit Ruddy Turnstone Stilt Sandpiper Sanderling Dunlin Baird's Sandpiper Least Sandpiper White-rumped Sandpiper Buff-breasted Sandpiper Pectoral Sandpiper Semipalmated Sandpiper Short-billed Dowitcher Wilson's Snipe Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs Lesser Yellowlegs Wilson's Phalarope	B005-006 B160-162 B170-172 B176-178 B186-188 Includes all other ecosites where criteria have been met	• Shorelines of lakes, rivers and wetlands, including beach areas, bars and seasonally flooded, muddy and un-vegetated shoreline habitats. • Great Lakes coastal shorelines, including groynes and other forms of armour rock lakeshores, are extremely important for migratory shorebirds in May to mid-June and early July to October. • Sewage treatment ponds and storm water ponds do not qualify as a SWH.	Studies confirming: • Presence of 3 or more of listed species and > 200 shorebird use days during spring or fall migration period. (shorebird use days are the accumulated number of shorebirds counted per day over the course of the fall or spring migration period) • Sites used for multiple years are more significant • The area of significant shorebird habitat includes the mapped ELC shoreline ecosites plus a 100m radius area • Evaluation methods to follow "Bird and Bird Habitats: Guidelines for Wind Power Projects' • SWHMiST Index #8 provides development effects and mitigation measures.	**Not Present** No ecosites present. Field data recorded: Greater Yellowlegs Solitary Sandpiper Spotted Sandpiper Wilson's Snipe in low numbers OBBA regional data and previous records: Greater Yellowlegs Killdeer Least Sandpiper Lesser Yellowlegs Spotted Sandpiper Wilson's Snipe
Colonially Nesting Bird Breeding Habitat: bank and cliff (Rationale: Historical use and number of nests in a colony make this habitat significant. An identified colony can be very important to local populations. All swallow populations are declining in Ontario.)	Northern Rough-winged Swallow (this species is not colonial but can be found in Cliff Swallow colonies) Cliff Swallow THREATENED Bank Swallow are protected under Ontario's Endangered Species Act, 2007. The Ministry of Natural Resources and Forestry should be consulted regarding any development or activity proposal that may affect these species.	Cliff faces, bridge abutments, silos, barns (Cliff Swallows). Habitat may be found in, but not limited to the following ecosites: B001-004 B157-159 B173-175	• Any site or areas with exposed soil banks, undisturbed or naturally eroding that is not a licensed/permitted aggregate area. • Does not include man-made structures (bridges or buildings) or recently (2 years) disturbed soil areas, such as berms, embankments, soil or aggregate stockpiles. • Does not include a licensed/permitted Mineral Aggregate Operation.	Studies confirming: • Presence of 1 or more nesting sites with 4 or more Cliff Swallow pairs and/or Rough-winged Swallow pairs during the breeding season. • A colony identified as SWH will include a 50m radius habitat area from the peripheral nests • Field surveys to observe and count swallow nests are to be completed during the breeding season. Evaluation methods to follow "Bird and Bird Habitats: Guidelines for Wind Power Projects" • SWH MIST Index #4 provides development effects and mitigation measures.	**Not Present** Ecosites and Cliff Swallow not documented in field surveys. Some cliffs were investigated for bats. Cliff Swallow was documented in the OBBA regional data. Bank Swallow not documented in field surveys
Colonially Nesting Bird Breeding Habitat: tree/shrub (Rationale: Large colonies are important to local	Bonaparte's Gull Black Tern Double-crested Cormorant Great Blue Heron	May include a wide variety of tall treed ecosites. Habitat selection based on close proximity to	• Great Blue Herons nest in live or dead standing trees in wetlands, lakeshores, islands, and peninsulas. Shrubs and occasionally emergent vegetation may also be used.	Studies confirming: • Presence of 4 or more active nests of Great Blue Heron or 5 or more nests of Bonaparte's Gull, 25 or more Double-crested Cormorant.	**Confirmed** NHIC provided information on Mixed Wader Nesting Colony. **Candidate**

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
bird populations, typically sites are only known colony in area and are used annually.)		water body or on island: B011-019 B023-028 B033-043 B048-059 B064-076 B081-092 B097-108 B113-137 B161-162 B177-178 B222-224	• Most nests in trees are 11 to 15 m from ground, near the top of the tree. • Bonaparte's Gulls nest in coniferous trees (preferably spruce-fir) near fens, bogs, swamps, ponds or lakes. • Double-crested Cormorants prefer to nest in trees but will nest on the ground as well where trees are limited or have died and fallen.	• For heron the habitat extends from the edge of the colony and a minimum 300m radius or extent of the Ecosite containing the colony or any island <15 ha with a colony is the SWH • For Bonaparte's Gull: the edge of the colony and a minimum 150m radius area of habitat surrounding the colony is the SWH • For Double-crested Cormorants: the edge of the colony and a minimum 100m radius area of habitat surrounding the colony is the SWH • Confirmation of active heronries are to be achieved through site visits conducted during the nesting season (April to August) or by evidence such as the presence of fresh whitewash, dead young and/or eggshells • SWH MIST Index #5 provides development effects and mitigation measures.	Ecosites B012, B034, B049, B050, B052, B055, B065, B067, B098, B104, B127, B128, B129, B135, B136, B137, were documented on site. Small breeding colonies of Bonaparte's Gull were found in several locations throughout the Study Area. Bonaparte's Gull colonies were noted in trees around small lakes. Suitable breeding habitat is abundant throughout the Study Area and is unlikely to be a limiting factor for gull populations. DST (2012) documented "active Bonaparte's Gull (*Larus philadelphia*) nesting colony was found at one of the point count locations" OBBA regional data: Black Tern, Double-crested Cormorant, and Great Blue Heron
Colonially Nesting Bird Breeding Habitat: ground (Rationale: Colonies are important to local bird populations, typically sites are only known colony in area and are used annually.)	Herring Gull Ring-billed Gull Common Tern Caspian Tern Double-crested Cormorant Brewer's Blackbird THREATENED American White Pelican	Any rocky island or peninsula (natural or artificial) within a lake or large river (two-lined on a 1;50,000 NTS map). B160-165 B169-172 B176-181 B185-188 Close proximity to watercourses in open fields or pastures with scattered trees or	• Nesting colonies of gulls and terns are on islands or peninsulas (natural or artificial) associated with open water or in marshy areas, lakes or large rivers (two-lined on a 1:50,000 NTS map). • Brewers Blackbird colonies are found loosely on the ground in or in low bushes in close proximity to streams and irrigation ditches within farmlands. • Double-crested Cormorants prefer to nest in trees but will nest on the ground as well where trees are limited or have died and fallen. INFORMATION SOURCES • Ontario Breeding Bird Atlas, rare/colonial	Studies confirming: • Presence of > 25 active nests for Herring Gulls or Ring-billed Gulls, >5 active nests for Common Tern or 1 for Caspian Tern • Presence of 2 or more pairs for Brewer's Blackbird • The edge of the colony and a minimum 150m radius area of habitat, or the extent of the ELC ecosites containing the colony or any island <3 ha with a colony is the SWH • For Double-crested Cormorants: >25 active nests the edge of the colony and a minimum 100m radius area of habitat • Studies would be done during May/June when actively nesting. Evaluation methods to	**Confirmed** NHIC provided information on Colonial Waterbird Nesting Area. **Candidate** Ecosites B164, B142, were documented on site. Small breeding colonies of Herring Gull were found in several locations throughout the Study Area, on small rocky islands in large lakes. No

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
		shrubs (Brewer's Blackbird). B008-B009 B020-021 B030-031 B045-046 B061-062 B078-079 B094-095 B110-111 B142-144	species records. • Canadian Wildlife Service • Reports and other information available from Conservation Authorities. • Natural Heritage Information Centre (NHIC) Colonial Waterbird Nesting Area • MNRF District Offices. • Field Naturalist Clubs	follow "Bird and Bird Habitats: Guidelines for Wind Power Projects" • SWH MIST Index #6 provides development effects and mitigation measures.	colonies had more than about 5 breeding pairs. No additional areas were found during 2021 field surveys. Ring-billed Gull was documented once, IMP-L and Common Tern was documented at REF-F. OBBA regional data and previous records: Caspian Tern Common Tern Herring Gull Ring-billed Gull
Eagle and Osprey Concentration Area (Rationale: Habitat of annual importance to migrating and/or wintering eagles and ospreys)	Osprey Special Concern Bald Eagle ENDANGERED Golden Eagle are protected under Ontario's Endangered Species Act, 2007. The Ministry of Natural Resources and Forestry should be consulted regarding any development or activity proposal that may affect these species.	Important habitat includes forested ecosites within the vicinity of lakes and rivers that receive large runs of salmonids. Undisturbed mature trees or snags distributed evenly along shorelines are important. Most individual trees used for perching are "super canopy" trees.	Most sites have been used for several years. Mostly associated with large river systems and lake confluences. Can be important hunting locations in Spring, Fall or Winter. Storm water waste facilities, retention ponds and sewage lagoons are not considered SWH.	Studies carried out and verified: • Sites with >5 individuals and >35 hunting days in either Spring, Fall, or Winter by indicator species are considered significant. • SWH includes feeding areas, winter/nocturnal roosting sites and trees regularly used for perching. • Significant sites are one of only a few in the ecodistrict, often associated with prime hunting areas. • MiST Index #11 may provide some development effects and mitigation measures.	**Candidate** Several Osprey and Bald Eagle nests were found during aerial surveys. However, individuals and hunting days are not known.
Sharp-tailed Grouse Leks (Rationale: Leks are an important habitat feature required to maintain populations of sharp-tailed grouse)	Sharp-tailed Grouse	B029-031 B044-046 B060-062 B077-079 B093-095 B109-111 B126 B136-141	• The lek or dancing ground consists of bare, grassy area as the core of the lekking area, and may contain some sparse shrubland. • There is often a knoll or slightly elevated rise in topography associated with the site. This is a better drained site less likely to collect water. • Leks are typically a grassy field/meadow separated by >15ha from adjacent shrublands and >30ha from adjacent treed areas.	Studies confirming lek habitat are to be completed from March to June. • Any site confirmed with sharp-tailed grouse courtship activities is considered significant • The ELC ecosite plus a 200 meter area with shrub or deciduous trees is the lek habitat • SWHMiST Index #32 provides development effects and mitigation measures	**Not Present** Ecosites B136, B137, B138, B139, B140, B141 occur but there are very few large open grassy wetlands that are likely to be suitable for this species. Sharp-tailed Grouse was not documented during any field visits (2021 or previous). Sharp-tailed

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
			• Field/meadows are to be >15ha when adjacent to shrubland and >30ha when adjacent to deciduous stands • Field/meadows are to be as undisturbed as possible with low intensities of agriculture (light grazing or late haying) • Leks will be used annually if not destroyed by cultivation or invasion by woody plants or tree planting		Grouse is noted in regional OBBA data.
Bat Hibernacula (Rationale; Bat hibernacula are rare habitats in all Ontario landscapes)	Big Brown Bat ENDANGERED Little Brown Myotis, Northern Long-eared Myotis, Eastern Small-footed Myotis, and Tricolored Bat are protected under Ontario's Endangered Species Act, 2007. The MNRF should be consulted regarding any development or activity proposal that may affect these species.	Hibernacula may be found in abandoned caves, mine shafts, underground foundations Caves and mine shafts are the important features. Commonly associated as components of either Cliff or Rock Barren ecosites. Once feature is identified the substrate classification can be used to identify characteristics and potential/ suitability of identified or suspected hibernacula.	•The locations of Bat Hibernacula are relatively poorly known. • Primary criteria is identification of known feature • Buildings or active mine sites are not considered to be SWH	•All sites with confirmed hibernating bats are SWH •The area includes 200 m radius around the entrance of the hibernaculum for most development types and 1000m for wind farms •Studies are to be conducted during the peak swarming period (Aug. – Sept.). Surveys should be conducted following methods outlined in the "Bats and Bat Habitats: Guidelines for Wind Power Projects" •SWH MIST Index #1 provides development effects and mitigation measures.	**Not Present** Abandoned mine shafts are present and were invested via swarming surveys during the August-September period. Acoustic data was analyzed, and it was determined that mine shafts investigated were not hibernacula. Swarming surveys were also completed at cliff sites and it was found cliff sites likely do not harbor hibernacula.
Bat Maternity Colonies (Rationale: Known locations of forested bat maternity colonies are extremely rare in all Ontario landscapes)	Big Brown Bat Silver-haired Bat ENDANGERED Little Brown Myotis, Northern Long-eared Myotis, Eastern Small-footed Myotis, Tricolored Bat are protected under Ontario's Endangered Species Act, 2007. The MNRF should be consulted regarding any development or activity proposal that may affect these species.	Maternity colonies considered SWH are found in in treed Ecosites. B011-019 B023-028 B033-043 B048-059 B064-076 B081-092 B097-108 B113-125	•Maternity colonies can be found in tree cavities, vegetation and often in buildings (buildings are not considered to be SWH). •Maternity roosts are not found in caves and mines in Ontario •Maternity colonies located in Mature (dominant trees > 80yrs old) deciduous or mixed forest stands with >10 large diameter (>25cm dbh) wildlife trees/ha. •Female bats prefer wildlife trees (snags) in early stages if decay, class 1-2 or class 1 -4 can be living or with bark mostly intact. •Silver-haired Bats prefer older mixed or deciduous forest and form maternity colonies	• All Maternity Colonies are considered SWH •The area of habitat includes the entire woodland or a forest stand ELC Ecosite or an Eco element containing the maternity colonies •Evaluation methods for maternity colonies should be conducted following methods outlined in the "Bats and Bat Habitats: Guidelines for Wind Power Projects" •SWH MIST Index #12 provides the development effects and mitigation measures.	**Confirmed** Ecosite B012, B034, B049, B055, B052, B055, B065, B067, B098, B104, B127, B128, and B129 were documented. Bat habitat surveys (snag surveys) were completed, and found an average snag density of 42 cavity trees per hectare. This indicates that nearly all deciduous or mixed forests in the Study Area have

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
		B126-133 B222-B224 Aspen is an important feature in Ecoregion 3W, primarily the presence of larger diameter trees in older mixed-wood stands.	in tree cavities and small hollows. Older forest areas with at least 21 snags/ha are preferred		sufficient cavities to support bat maternity roosts. Nearly all cavities identified were in Trembling Aspen, with much lower numbers in birch. The most frequently recorded species within the project were by far the Silver-Haired Bat, followed by the Hoary Bat. No passes could be confirmed as Big Brown Bat.
Amphibian Breeding Habitat (Rationale: These habitats are extremely important to amphibian biodiversity within Northern Ontario landscapes)	Eastern (Red-spotted) Newt Spotted Salamander Blue-spotted Salamander American Toad Gray Treefrog Boreal Chorus Frog Wood Frog Spring Peeper Northern Leopard Frog Green Frog Mink Frog Mudpuppy	May include swamps and thickets, vernal/seasonal pooling, riparian and variety of wetland interiors and margins B109-156 B223-224	Wetlands and pools (including vernal pools) > 500m2 (about 25m diameter) supporting high species diversity are significant; small or ephemeral habitats may not be identified on MNRF mapping and could be important amphibian breeding habitats. Spotted Salamanders are extremely rare in 3W; candidate wildlife habitat for this species could include artificial wetlands and/or ponds and ditches. Wetlands and pools need to persist until August. Presence of shrubs and logs increase significance of pond for some amphibian species because of available structure for calling, foraging, escape and concealment from predators.	Studies confirm: • Presence of breeding population of 1 or more of the listed newt/salamander species or 4 or more of the listed frog/toad species including either Northern Leopard Frog, Green Frog or Mink Frog and at least 20 breeding individuals (adults juveniles, eggs/larval masses) • The ELC ecosite(s) and the shoreline are the SWH. • Surveys to confirm breeding to be completed during spring when amphibians are migrating, calling and breeding within the wetland habitats. • If a SWH is determined for Amphibian Breeding Habitat (Wetlands) then Movement Corridors are to be considered as outlined in Table 1.4.1 of this Schedule. • SWH MIST Index #14 and #15 provides development effects and mitigation measures	**Candidate** Ecosites B127-B129, B135-B142, B148, B150, and B152 occur on site. American Toad, Northern Leopard Frog, Spring Peeper, and Wood Frog were documented as adults across the RSA by Wood in 2021. Blue-spotted Salamander, Gray Treefrog were previously documented by DST.
Turtle Wintering Areas (Rationale: Turtle distribution in 3W is very limited and disjunct. Sites with the highest number of individuals are most significant)	Painted Turtle **Special Concern:** Snapping Turtle	Lakes, wetlands, ponds, and ecosites: B128-142 B145-152	•For most turtles, wintering areas are in the same general areas as their core habitat. Water has to be deep enough not to freeze and have soft mud substrates. •Overwintering sites are permanent water bodies, large wetlands and bots or fens with adequate dissolved oxygen. • Year-round persistence of standing or flowing water to depth, or presence of springs to prevent freezing is key.	•Presence of one or more overwintering turtles is significant. •The mapped ELC ecosite area with the overwintering turtles is the SWH. If the hibernation site is within a stream or river, the deep-water pool where the turtles are overwintering is the SWH. •Overwintering areas may be identified by searching for congregations (basking areas) of turtles on warm, sunny days during the fall (August - September) or spring (April - May).	**Not Present** Several Ecosites occur, B135, B136, B137, B138, B139, B140, B141, B142, B148, B150, B151, B152 But turtle species have not been documented in the RSA (targeted surveys for turtles did not occur).

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
			•Manmade ponds such as sewage lagoons or storm water ponds should not be considered SWH. Both Midland and Western Painted Turtles are present in 3W.	Congregation of turtles is more common where wintering areas are limited and therefore significant. •SWH MIST Index #28 provides development effects and mitigation measures for turtle wintering habitat.	Western Painted Turtle and Snapping Turtle occur around Sioux Lookout and Ear Falls.
Snake Hibernaculum (Rationale: Generally hibernacula that provide adequate conditions for overwintering in 3W will be limited on the landscape. Sites with the highest number of individuals are most significant.)	SNAKES Eastern Gartersnake Northern Red-bellied Snake	For all snakes, habitat may be found in any forested ecosite in northern Ontario. Talus, rock barren, crevice and caves are more typically related to these habitats. Many suitable conditions also observed in the very shallow ecosites particularly on fractured bedrock and lower veg cover Open and Sparse Tall/Low Treed or Shrub Systems.	•For snakes, hibernation takes place in sites located below frost lines in burrows, rock crevices and other natural or naturalized locations. The existence of features that go below frost line; such as rock piles or slopes, old stone fences, and abandoned crumbling foundations assist in identifying candidate SWH. •Areas of broken and fissured rock are particularly valuable since they provide access to subterranean sites below the frost line •Wetlands can also be important over-wintering habitat in conifer or shrub swamps and swales, poor fens or depressions in bedrock terrain with sparse trees or shrubs with sphagnum moss or sedge hummock ground cover. •Observation of congregating snakes on sunny warm days in the spring or fall is a good indicator. •Large numbers of roadkill during period of emergence in spring can also be an indicator that a hibernaculum is nearby. The subspecies of Eastern Gartersnake, Red-sided Gartersnake, occurs in the northwest portion of 3W.	Studies confirming: •Presence of snake hibernacula used by a minimum of five individuals of a snake sp. •Congregations of a minimum of five individuals of a snake sp. or; individuals of two or more snake spp. near potential hibernacula (*e.g.,* foundation or rocky slope) on sunny warm days in Spring (Apr/May) and Fall (Sept/Oct) •NOTE: Sites for hibernation possess specific habitat parameters (*e.g.,* temperature, humidity, *etc.*) and consequently are used annually, often by many of the same individuals of a local population (*i.e.,* strong hibernation site fidelity). Other critical life processes (*e.g.,* mating) often take place in close proximity to hibernacula. •The feature in which the hibernacula is located plus a 30 m radius area is the SWH •SWH MIS Index #13 provides development effects and mitigation measures for snake hibernacula.	**Candidate** Common Gartersnake was observed commonly throughout the study area. No other snake species are expected to occur on site. Field surveys for congregations did not occur.
Rare Vegetation Communities or Specialized Habitat for Wildlife					
Rare Vegetation Communities					
Cliffs and Talus Slopes (Rationale: Cliffs and cliff rims can provide habitat for rare plants and vegetation communities. These sites are particularly sensitive to disturbances such as	Granitic cliff species: *Polypodium virginianum, Deschampsia cespitosa, Umbilicaria sp.,Betula papyrifera* Characteristic plant species of basic cliffs in 3W include: *Polypodium virginianum, Woodsia ilvensis, Cystopteris fragilis, Danthonia spicata, Dechampsia flexuosa, Aquilegia canadensis, Campanula gieseckiana, Sibbaldiopsis tridentate, Selaginella rupestris, Cladina rangiferina, Cladina mitis, Vaccinium*	Cliffs: B157-159	Acidic sites include granitic and sandstones. These sites are nutrient poor, typically with very few plant species. Diabase cliffs are relatively richer sites that tend to have more diverse plant communities and a larger array of potential rare species. Cliffs that are warmer and drier than normal have a better likelihood of containing plants with more southern or prairie affinities. Cliffs	• Field studies that confirm the ecosite and 1 or more provincially or regionally rare plant species is considered SWH • The physical features that define the cliff or cliff rim ecosite and a radius of 120m around the ecosite that contributes to the ecological function of the ecosite is the SWH. • MiST Index #21 provides development effects and mitigation measures	**Not Present** As a rare vegetation community, cliffs and talus are not present, however 'cliffs' can be found around the Study Area and have been investigated for bat hibernacula.

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
invasive species and/or trampling)	*angustifolium, Arctostaphylus uva-ursi, Diervilla lonicera, Betula papyrifera* Drier/warmer diabase cliff indicator species: *Umbilicaria sp. Artemisia campestris, Campanula gieseckiana, Heuchera richardsonii, Sibbaldiopsis tridentate, Toxicodendron rydbergii, Parthenocissus inserta* Cooler/wetter diabase cliff species indicator species: *Woodsia glabella, Trisetum spicatum, Saxifraga paniculata, Cystopteris laurentiana, Polygonum viviparum, Solidago uliginosa, Cystopteris fragilis*		that have cooler and wetter microclimates than normal have a better likelihood of containing Arctic-Alpine disjuncts. **Cliff**: Vertical to near-vertical consolidated bedrock communities with a minimum height of 3 m and a slope of > 60° or 173%. Sites have limited plant growth and species diversification. Ground cover dominated by lichen and bryophytes. Plant communities are tolerant of environmental extremes, well adapted to desiccation, rapid fluctuations in temperature, and low availability of nutrients. **Cliff Rim**: Exposed bedrock areas on top face of cliff. Typically narrow, with very shallow soil and lacking trees (may be stunted). Plant communities are tolerant of environmental extremes, well adapted to desiccation, rapid fluctuations in temperature, and low availability of nutrients.		Several Cliff and Talus indicator species were found throughout the Study Area, predominately in Hydrocuts, clearcuts, and burns where conditions mimic open and exposed cliff and talus sites.
Talus Slope (Rationale: Talus slopes can provide unique and isolated habitat for rare plants and vegetation communities that can be significantly impacted by disturbance such as invasive species and/or trampling or removal of the talus)	Characteristic plant species of talus in 3W include: *Polypodium virginanum, Agrostis scabra, Aralia hispida, Woodisa ilvensis, Aralia nudicaulis, Cladina rangiferina, Cladina mitis, Diervilla lonicera, Alnus viridis ssp. crispa, Prunus pensylvanica, Betula papyrifera, Populus tremuloides*	B166-168 B182-184	Rock accumulation at the base of cliffs. The substrate is dominated by coarse fragments (>90% rock fragments) with little to no mineral or organic material between the coarse fragments. May be covered by a thin covering of material (mineral <5 cm, organic <10cm). Vascular vegetation <25%. Trees and shrubs stunted. Herbs, (typically Polypodium virginianum) and graminoids limited to patches of organic or mineral soil accumulations. If vascular vegetation >25% then mineral material <15cm (very shallow), organic material of any depth	• Field studies that confirm the ecosite and 1 or more provincially or regionally rare plant species is considered SWH. • The physical features that defines the talus slope ecosite is the SWHÍ. • MiST Index #21 provides development effects and mitigation measures.	**Not Present** As a rare vegetation community, cliffs and talus are not present, however 'cliffs' can be found around the Study Area and have been investigated for bat hibernacula. Several Cliff and Talus indicator species were found throughout the Study Area, predominately in Hydrocuts, clearcuts, and burns where conditions mimic open and exposed cliff and talus sites.
Rock Barren (Rationale: Rock barrens that are close to roads or trails can be significantly	Characteristic plant species of rock barrens in 3W may include: *Danthonia spicata, Deschampsia flexuosa, Elymus trachycaulus, Carex pensylvanica, Corydalis sempervirens, Aralis hispida, Agrostis scabra, Aralia nudicaulis, Pteridium aquilinum ,*	Basic Rock Barren B180-181 Acidic Rock Barren B163-165	Rock barrens have limited plant growth and species diversification. Ground cover dominated by lichen and bryophytes. Plant communities are tolerant of environmental extremes, well adapted to desiccation, rapid	• Field studies that confirm the ecosite and 1 or more provincially or regionally rare plant species is considered SWH. • The physical features that defines the rock barren ecosite and a radius of 120m around the	**Candidate** Ecosite B164 occurs and Paper Birch and Jack Pine were documented. Further dedicated studies to

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
impacted by invasive species and/or trampling)	*Vaccinium angustifolium, Rubus spp., Diervilla lonicera, Betula papyrifera, Pinus banksiana, Populus tremuloides*		fluctuations in temperature, and low availability of nutrients. Acidic rock barrens in 3W include granitic and sandstones. These sites are nutrient poor sites with very few plant species. Basic (mainly diabase) rock barrens are relatively richer sites that tend to have more diverse plant communities and a larger array of potential rare species. Exposed bedrock areas (mostly exposed rock with <5cm mineral or <10cm organic material) and <25% vascular vegetation.	ecosite that contributes to the ecological function of the ecosite is the SWH. • SWHMiST Index #21 provides development effects and mitigation measures.	document provincially or regionally rare plants will confirm SWH. Several indicator species were found predominately in Hydrocuts where conditions mimic open sites.
Rare Treed Type: Red and White Pine Stands (Rationale: Uncommon to rare Ecoregion 3W – they amount to less than 1% of the total forest)		B011 B015 B023 B027 B033 B039 B048 B054 B064 B069 B081 B087 B097 B103 B113 B118	Red and White Pine stands attain their northern limit in 3W. They occur as sporadic, small stands and are generally found on dry, often exposed, south-facing slopes and rocky sites. However, these conditions can vary.	• Stands should have > 10% absolute cover or > 35% relative cover of white and/or red pine. • Minimum size is 2ha • The red and white pine ecosite is the SWH. • SWHMiST Index #37 provides direction for rare species and habitats.	**Not Present** No ecosites or Red or White Pine documented
Rare Treed Type: Elm (Rationale: Rare in Ecoregion 3W – they amount to less than 1% of the total forest)		B019 B043 B056 B059 B071 B076 B089 B092 B105	Elm stands are found within low lying, predominantly alluvial material	• Stands should have > 10% absolute cover or > 35% relative cover of Elm. • Minimum size 0.5ha • The elm ecosite is the SWH. • SWHMiST Index #37 provides direction for rare species and habitats.	**Not Present** Ecosites or elm documented

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
		B108 B120 B125			
Rare Treed Type: Red and Sugar Maple (Rationale: Rare in Ecoregion 3W – they amount to less than 1% of the total forest)		B018-B019 B028 B042- B043 B058-B059 B073-B076 B091-B092 B107-B108 B122-B125	Hardwood canopy containing red and/or sugar maple. Generally on warmer-than-normal sites with a higher nutrient regime.	•Stands should have > 10% absolute cover or > 35% relative cover of red and/or sugar maple. •The red and/or sugar maple ecosite is the SWH. • Minimum size 0.5ha • SWHMiST Index #37 provides direction for rare species and habitats.	**Not Present** Ecosites and Red and Sugar Maple not present
Rare Treed Type: Mountain Ash (Lake Superior Coastline) (Rationale: Rare and limited in 3W. Characteristic of Lake Superior Coastline. Mast crops are an important source of food for migrating and wintering birds)		Will include a wide variety of ecosites	Old-growth stands of Mountain Ash on the coast of Lake Superior.	Stands should have >10% absolute cover or >35% relative cover or Mountain Ash >1cm DBH. • Minimum size 1ha • SWHMiST Index #37 provides direction for rare species and habitats.	**Not Present** Project site is not along the coast of Lake Superior
Sand Dunes (Including Freshwater Coastal Dunes) Notably: American Dune Grass Type (Rationale: Rare and limited in 3W)	Characteristic plant species of sand dunes grass type in 3W include (Bakowsky and Henson, 2014): *Ammophila breviligulata, Artemisia campestris spp. caudata, Elymus trachycaulus, Leymus mollis, Lathyrus japonicus, Xanthium strumariu, Prunus pumila var. pumila, Hudsonia tomentosa* Other species may include: *Anemone multifida, Arabidopsis lyrata, Arctostaphylos uva-ursi, Campanula gieseckiana, Cornus stolonifera, Elymus canadensis, Equisetum hyemale, Festuca saximontana, Juniperus communis, Anthoxanthum hirtum, Maianthemum stellatum, Pinus resinosa, Pinus strobus, Polygonella articulata, Pteridium aquilinum, Salix interior, Salix myricoides, Trisetum melicoides* THREATENED Pitcher`s Thistle	B005-B008 B020 B030 B142 B155	Exposed mineral material community often associated with shorelines of lakes or exposed inland mineral material that has been shaped by eolian (wind) processes. American Dune Grass Type Open grassy sand dunes with Indicator Species: American dune grass, beach pea, and sand cherry. Scattered white spruce forest islands may also occur.	•Field studies confirm the presence of any of the characteristic plant species • The physical characteristics of the sand dune and an area around the ecosite that contributes to the ecological function of the ecosite is the SWH. • B006 ecosites are considered rare in 3W and are considered SWH • SWHMiST Index #37 provides direction for rare species and habitats	**Not Present** Ecosite B142 is present however no indicator species were documented in field investigations.
Rare Arctic-Alpine Plant Communities	Characteristic plant species of arctic-alpine community types in 3W include:	B161 B162	Primarily found on the shoreline of Lake Superior on open basic bedrock but can exist elsewhere.	• All Arctic-Alpine Great Lakes Shoreline Type ecosites are considered significant.	**Not Present** Ecosites not documented

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
(Including Great Lakes) (Rationale: Rare and disjunct in Ecoregion 3W. Typically found in colder-than-normal sites)	All*ium schoenoprasum var. sibiricum, Anemone parviflora, Antennaria rosea, Arenaria humifusa, Arnica cordifolia, Astragalus alpinus, Bistorta vivipara, Calamagrostis purpurascens, Calamagrostis stricta ssp. inexpansa, Carex atratiformis, Carex glacialis, Carex scirpoidea, Carex supina, Castilleja septentrionalis, Cerastium alpinum, Chamerion latifolium, Chrysosplenium tetrandrum, Cypripedium passerinum, Cystopteris montana, Draba aurea, Draba cana, Draba cinerea, Dryas drummondii, Dryas integrifolia, Empetrum nigrum, Epilobium hornemannii, Erigeron acris, Erigeron hyssopifolius, Erigeron lonchophyllus, Eriophorum brachyantherum, Eriophorum russeolum, Euphrasia hudsoniana, Euphrasia nemorosa, Euphrasia wettsteinii, Hedysarum alpinum, Huperzia appressa, Huperzia selago, Luzula parviflora, Moehringia macrophylla, Neottia borealis, Oxytropis borealis, Oxytropis splendens, Packera indecora, Packera pauciflora, Pinguicula vulgaris, Poa alpina, Poa glauca, Poa pratensis ssp. alpigena, Potentilla bimundorum, Pyrola grandiflora, Sagina nodosa, Salix myrtillifolia, Salix planifolia, Salix pseudomonticola, Salix pseudomyrsinites, Saxifraga oppositifolia, Saxifraga paniculata, Saxifraga tricuspidata, Selaginella selaginoides, Silene acaulis, Solidago multiradiata, Taraxacum ceratophorum, Tofieldia pusilla, Trichophorum cespitosum, Trisetum spicatum, Vaccinium caespitosum, Vaccinium uliginosum, Viola epipsila, Woodsia alpina, Woodsia glabella*	But can include other ecosites.	Vegetation consists mostly of arctic-alpine species. Inland can be found on rocky shorelines of rivers and streams, cliff tops, canyons, and peatlands. These relict populations are rare and declining and thought to have persisted in suitable habitats following the retreat of the glaciers about 11,000 years ago. These open environments are maintained in part by the energy associated with river systems, which create a dynamic shoreline environment, particularly in areas where combinations of hydrology, topography and stream gradient are responsible for periodic flooding and associated flood-scour.	• Field studies that confirm the presence of >2 of the characteristic plant species are considered significant. • The Great Lakes Arctic-Alpine Shoreline Type ecosite area or the ecosite(s) that contains the community and the shoreline (when located on rivers and streams) is the SWH. •SWHMiST Index #37 provides direction for rare species and habitats.	
Diverse and Sensitive Orchid Communities (Rationale: Large communities of sensitive orchid species are rare and specialized and sensitive to disturbance in 3W)	Orchid indicator and sensitive species: *Calopogon tuberosus, Cypripedium arietinum, Cypripedium passerinum, Cypripedium reginae, Goodyera oblongifolia, Malaxis monophyllos, Malaxis paludosa, Neottia auriculata, Neottia borealis, Neottia convallarioides, Platanthera hookeri, Platanthera lacera.* Other characteristic orchid species of diverse communities may include: *Arethusa bulbosa, Calypso bulbosa, Corallorhiza maculate, Corallorhiza striata, Corallorhiza trifida, Cypripedium acaule, Cypripedium parviflorum var. pubescens, Dactylorhiza viridis, Galearis rotundifolia, Goodyera repens, Goodyera tesselata, Liparis loeselii, Malaxis unifolia, Neottia*	Will include a wide variety of ecosites. Diverse orchid communities are likely to be found in: B126-139 B222-224	Fungi provide orchids with a carbon source. By consuming the fungi, orchids are able to produce seed via photosynthesis or fungi consumption. In addition to their fungal relationships, many of the indicator and sensitive species of orchids in 3W are associated with hydric sites and are extremely sensitive to water level fluctuations. Horticultural or planted sites are not considered SWH.	• Field studies that confirm the presence of 1 of the indicator plant species at greater than 100 plants or >9 total orchid species within a community is considered SWH. • The ecosite that includes the indicator and characteristic plant species and a radius of 120m around the ecosite where it contributes to the ecological function of the ecosite is the SWH. • MiST Index #22 may provide some development effects and mitigation measures. MiST Index #37 provides development effects and mitigation measures for rare species and habitats.	**Not Present** Ecosites B127-B129, B135-B139 documented. No Indicator species present but other characteristic species were found at low densities and never more than two species are found per community: *Arethusa bulbosa* *Corallorhiza trifida* *Cypripedium acaule* *Goodyera repens* *Goodyera tesselata* *Neottia cordata*

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
Provincially Rare Vegetation Communities (Rationale: Rare plant communities that often contain rare species which depend on specific habitats for survival)	All plant community element occurrences (EO). Older element occurrences were recorded prior to GPS being available, therefore location information may lack accuracy.	Most up to date lists of these communities can be found on Ontario.ca and are tracked by the Natural Heritage Information Centre. At time of publication, rare (S1-S3, SH) plant communities in 3W: American Dune Grass – Beach Pea – Sand Cherry Dune Grassland Type (S2), Basic Open Cliff Type (S3S4), Boreal Acidic Sandstone Open Cliff Type (S2), Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type (S3), Open Sandstone Cliff Type (S1)	The OMNRF should be contacted for an up to date listing of rare vegetation communities. Horticultural or planted sites are not considered SWH.	• Assessment/inventory of the site for the identified community needs to be completed during the time of year when the species is present or easily identifiable. • Habitat form and function needs to be assessed from the assessment of vegetation types and an area of significant habitat that protects the rare community identified. • The area of the habitat to the finest ELC scale that protects the form and function of the vegetation community is the SWH; this must be delineated through detailed field studies. • MiST Index #37 provides development effects and mitigation measures for rare species and habitats.	**Not Present** Not documented by NHIC
Regionally Rare Plant Species (Rationale: These species are considered locally rare because of limited available habitat.)	Plants considered regionally rare in the Checklist of Vascular Plants of Thunder Bay District (2015). All plant and animal element occurrences (EO). Older element occurrences were recorded prior to GPS being available, therefore location information may lack accuracy		Horticultural or planted sites are not considered SWH.	• Assessment/inventory of the site for the identified rare species needs to be completed during the time of year when the species is present or easily identifiable. • Finest scale ELC that encompasses the population of rare plants is the SWH; this must be delineated through detailed field studies. • MiST Index #37 provides development effects and mitigation measures for rare species and habitats.	**Not Evaluated**
Specialized Habitat for Wildlife					
Waterfowl Nesting Area (Rationale: Important to local waterfowl populations, sites with greatest number of species and highest number of individuals are significant)	Trumpeter Swan Wood Duck Gadwall American Wigeon American Black Duck Blue-winged Teal Northern Shoveler	All upland habitats located adjacent to ELC ecosites; B129-135 B140-152 B224 are Candidate SWH	• A waterfowl nesting area extends 120 m from a wetland (>0.5 ha) or a cluster of 3 or more small (<0.5 ha) wetlands within 120 m of each individual wetland where waterfowl nesting is known to occur • Upland areas should be at least 120 m wide so that predators such as raccoons, skunks and foxes have difficulty finding nests • Wood Ducks, Bufflehead and Hooded	Studies confirmed: • Presence of 3 or more nesting pairs for listed species • Nesting studies should be completed during the spring breeding season (April - July). Evaluation methods to follow "Bird and Bird Habitats: Guidelines for Wind Power Projects" • A field study confirming waterfowl nesting habitat will determine boundary of the	**Candidate** Ecosites B129, B135, B140, B141, B142, B148, B150, B152, present. Four indicator species documented during field investigations in 2021: Common Goldeneye (Fledged young at IMP-A-

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
	Northern Pintail Green-winged Teal Ring-necked Duck Bufflehead Common Goldeneye Hooded Merganser Red-breasted Merganser Common Merganser	NOTE Includes adjacency to Provincially Significant Wetlands	Mergansers utilize large diameter trees in forested habitat for cavity nest sites. Storm water waste facilities, retention ponds and sewage lagoons are not considered SWH.	waterfowl nesting habitat for the SWH, this may be greater or less than 120 m from the wetland and will provide enough habitat for waterfowl to successfully nest • SWH MIST Index #25 provides development effects and mitigation measures.	28), Common Merganser, Hooded Merganser, Ring-necked Duck (Pair at IMP-E-29). Two locations of Trumpeter Swan nesting and one location with a pair was documented in 2021. DST observed a Common Goldeneye at location MMP01 was concluded to be a probable breeder based on its observance at the same location on both dates. Species in the OBBA regional data and other surveys: American Black Duck American Wigeon Blue-winged Teal Bufflehead Common Goldeneye Common Merganser Gadwall Green-winged Teal Hooded Merganser Northern Pintail Northern Shoveler Red-breasted Merganser Ring-necked Duck Trumpeter Swan Wood Duck
Wild Rice Stand (Rationale: Wetlands containing large stands of wild rice are important rearing and migratory stopover	*Zizania palustris* (Wild Rice)	B142-145 B148-152	Ponds, marshes, lakes, bays, coastal inlets, and watercourses with wild rice. These habitats have an abundant food supply for waterbirds. Sites with wild rice have a high likelihood of being a waterfowl stopover and staging area as well.	Studies confirm: • Wetland communities in which Wild Rice is the dominant emergent vegetation >1ha are SWH. Can include small open water communities.	**Not Present** Ecosites B142, B148, B150, B152 occur not Wild Rice has not been documented

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
locations for waterfowl)				• The community and an area around the ecosite that contributes to the ecological function of the ecosite radius area is the SWH. • Wetland area and shorelines associated with sites identified within the SWHTG Appendix K are significant wildlife habitat.	
Milkweed Patch (Rationale: Native milkweed patches are extremely rare in 3W and are specialized habitats for Monarch butterflies)	*Asclepias incarnate,* *Asclepias syriaca*	*Asclepias incarnate* can be found within a variety of habitats. Most likely ecosites include: B126-156 B170-172 B222-224 *Asclepias syriaca* may be found within: B006 B008 B020-021 B029-030 B044-045	Extremely rare in 3W. Potential habitat includes fields and dry or wet meadows as well as shorelines of lakes and rivers. Horticultural or planted sites are not considered SWH.	• Field studies that confirm the presence of >9 plants is considered SWHÍ. • The ecosite that includes the milkweed patch and a radius of 30m around the ecosite that contributes to the ecological function of the ecosite is the SWH. • MiST Index #37 provides development effects and mitigation measures for rare species and habitats	**Not Present** Most documented communities are possible *Asclepias incarnate* habitat, but no milkweed has been found.
Bald Eagle and Osprey Nesting Habitat (Rationale: Nests are used annually by these species. Suitable nesting locations may be impacted due to shoreline development)	Osprey SPECIAL CONCERN Bald Eagle	Typically nests in treed communities directly adjacent to riparian areas – rivers, lakes, ponds and wetlands. However, species may nest further away from water.	• Nests are associated with lakes, ponds, rivers or wetlands along forested shorelines, islands. • Osprey nests are usually at the top a tree whereas Bald Eagle nests are typically in super canopy trees in a notch within the tree's canopy. • Nests located on man-made objects such as telephone or hydro poles will not normally be considered as SWH, however the OMNRF District retains discretion regarding significance of constructed nesting platforms.	Studies confirm the use of these nests by: • One or more active Osprey or Bald Eagle nests in an area • Considered SWH if the nest has been used or suspected of use within the past 5 years; unless documented that the nest and other associated nests in the nesting area have been unoccupied within the past 3 consecutive years by Osprey or Bald Eagle • Some species have more than one nest in a given area and priority is given to the primary nest with alternate nests included within the area of the SWH. • For an Osprey, the active nest and a 300 m radius around the nest or the contiguous woodland stand is the SWH, maintaining undisturbed shorelines with large trees within this area is important • For a Bald Eagle the active nest and a 400-800 m radius around the nest is the SWH. Area of the habitat from 400-800 m is dependent on	**Confirmed** 40 Osprey Nest sites are identified in the Study Area in ministry mapping (wildlife values site) and four Unidentified Hawk/Owl Nesting Sites occur in the ministry data. No Bald Eagle Nests occur in the ministry data. Aerial surveys were completed to confirm known nest locations (and those reported from previous consultants). Additional nests were added as found. More than 20 Raptor nests including those for Bald Eagle and Osprey were

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
				sight lines from the nest to the development and inclusion of perching and foraging habitat • Evaluation methods to follow "Bird and Bird Habitats: Guidelines for Wind Power Projects" • SWH MIST Index #26 provides development effects and mitigation measures	confirmed in the Study Area (Figure xx).
Woodland Raptor Nesting Habitat (Rationale: These habitats may be used annually by some species. Nests sites for these species are rarely identified in advance site investigations)	Stick nesters/users: Sharp-shinned Hawk Cooper's Hawk Northern Goshawk Broad-winged Hawk Red-tailed Hawk Great Horned Owl Barred Owl Great Gray Owl Long-eared Owl Merlin Common Raven Cavity nesters/users: Great Horned Owl Northern Hawk Owl Barred Owl Boreal Owl Northern Saw-whet Owl American Kestrel (Note: Bufflehead, Common Goldeneye, Wood Duck and Common and Hooded Merganser also use tree cavities for nesting. Northern Flying Squirrel use cavities as roosting sites in winter)	May be found in all forested ELC Ecosites.	• All natural or conifer plantation woodland/forest stands • Stick nests found in a variety of intermediate-aged to mature conifer, deciduous or mixed forests, within tops or crotches of trees. • Common Raven are included because nests may be used in subsequent years by raptors • Species such as Merlin or Coopers Hawk nest along forest edges sometimes on peninsulas or small off-shore islands. • Some raptors rely on cavity trees for nesting. They do not excavate their own cavities, but rely on natural cavities of sufficient size and those excavated by Pileated Woodpeckers. Larger diameter trees are used most frequently, with nest cavities most often found in trembling aspen. • Nests may be used again, or a new nest may be in close proximity to old nest. INFORMATION SOURCES • OMNRF Districts. • Sustainable Forestry Licence (SFL) companies will identify additional nesting locations through field operations. • Ontario Breeding Bird Atlas or Rare Breeding Birds in Ontario for species documented. • Check data from Bird Studies Canada. • Reports and other information available from CAs. • Use maps and aerial photographs to identify forests with few roads that tend to have less human disturbance. • eBird Canadahttp://ebird.org/content/canada/	Studies confirm: • Presence of one or more active nests from species list is considered significant • Great Gray Owl, Northern Goshawk – A 400m radius around the nest or 28ha of suitable habitat is the SWH. • Barred Owl (stick nest) – A 200m radius around the nest is the SWH. • Broad-winged Hawk, Coopers Hawk, Great Horned Owl (stick nest), Barred Owl (cavity nest), Red-tailed Hawk, Long-eared Owl – A 100m radius around the nest is the SWH. • Great Horned Owl (cavity nest), Northern Hawk Owl, Common Raven, Merlin and Sharp-shinned Hawk – A 50m radius around the nest is the SWH. • American Kestrel, Boreal Owl, Northern Saw-whet Owl – A 25m radius around the nest is the SWH. • Conduct field investigations from mid-March to end of May. The use of call broadcasts can help in locating territorial (courting/nesting) raptors and facilitate the discovery of nests by narrowing down the search area. • SWH MIST Index #27 provides development effects and mitigation measures	**Candidate** The Study Area contains forested ecosites and American Kestrel Broad-winged Hawk Common Raven Great Gray Owl Merlin Red-tailed Hawk Sharp-shinned Hawk were documented incidentally or during field surveys. Aerial surveys could not confirm nests which belonged to these raptors, but it is probable raptors nest in the Study Area.
Turtle Nesting Habitat (Rationale: These habitats are rare and	Painted Turtle	May include: B003	• Best nesting habitat for turtles are close to water and away from roads and sites less prone to loss of eggs by predation from skunks,	Studies confirm: • Presence of one or more turtle nests. • The area or collection of sites within an area	**Not Present** Ecosites were not documented. Sandy

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
when identified will often be the only breeding site for local populations of turtles.)	SPECIAL CONCERN Snapping Turtle THREATENED Blanding's Turtle	B006-007 B031 B171-172 B187-188	raccoons or other animals. • For an area to function as a turtle-nesting area, it must provide sand and gravel that turtles are able to dig in and is located in open, sunny areas. Nesting areas on the sides of municipal or provincial road embankments and shoulders are not SWH. • Sand and gravel beaches adjacent to undisturbed shallow weedy areas of marshes, lakes and rivers are most frequently used.	of exposed mineral soils where the turtles nest, plus a radius of 30 to 100 m around the nesting area dependent on slope, riparian vegetation and adjacent land use is the SWH. • Travel routes from wetland to nesting area are to be considered within the SWH. • Field investigations should be conducted in prime nesting season typically late spring to early summer. • SWH MIST Index #28 provides development effects and mitigation measures for turtle nesting habitat.	beaches are the mostly likely suitable nesting locations to be used in the Study Area, and are located on the shores of many large lakes. The Study Area is further than the northern range for most turtles in Canada; Western Painted Turtle and Snapping Turtle occur around Sioux Lookout and Ear Falls and may be found around the Study Area but it is less likely.
Aquatic Feeding Habitat (Rationale: Aquatic Feeding habitats are an extremely important habitat component for moose and other wildlife as they supply important nutrients. Forest cover adjacent to these areas is important as well to provide for summer thermal cover, screening and escape cover)	Moose	Habitat may be found in all forested ecosites adjacent to water.	• OMNRF maps these locations on Crown land and rate the site on a scale of 1 – 4, with 4 having the greatest potential. Feeding sites classed 3 or 4 are candidate significant areas. • Identification of Moose Aquatic Feeding Areas should follow the method outlined in OMNRF's Selected Wildlife and Habitat Features: Inventory Manual • Wetlands and isolated embayments in rivers or lakes which provide an abundance of submerged aquatic vegetation such as pondweeds, water milfoil and yellow water lily are preferred sites. Adjacent stands of lowland conifer or mixed woods will provide cover and shade.	• Moose Aquatic Feeding Habitat identified and ranked 3 or 4 by OMNRF are considered SWH. • The area of the habitat includes the ELC ecosite area and adjacent stands (120m) of mixed or conifer forest, particularly those that provide thermal cover and/or travel corridors to other habitat features are considered significant • Surveys should be conducted from mid June to end of July when submergent aquatic vegetation has peaked • Surveys should confirm the use of the site by moose or other species through observation of animal presence, tracks, etc. • If a SWH is determined for Aquatic Feeding Habitat then Movement Corridors are to be considered as outlined in Table 1.4.1 of this Schedule • SWHMiST cxlix Index #24 provides development effects and mitigation measures.	**Confirmed** 31 locations occur in the Study Area, according to NHIC, in the southern extension. Two are unrated, six are rated low, 12 are rated moderate, 10 rated high and 1 rated very high. Sites classed high and very high are mapped in Figure xx
Seeps and Springs (Rationale: Seeps/springs are typical of headwater areas and are often at the source of Coldwater streams.)	Selected wildlife species that utilize this feature: Spotted Salamander Blue-spotted Salamander Ruffed Grouse Spruce Grouse Moose	Seeps are areas where groundwater emerges and can be identified as zones where surface saturation produces overland flow but there is no	• Any forested area within the headwaters of a stream or river system • Seeps and springs are important feeding and drinking areas. Especially in the winter will support a variety of plant and animal species.	Field studies confirm: • Presence of a site with 2 or more seeps/springs should be considered SWH. • The area of an ELC forest ecosite or an Eco element within ecosite containing the seeps/springs is the SWH. The protection of the recharge area considering the slope,	**Candidate** It is likely seeps/spring occur somewhere in the Study Area, although they were not documented. Blue-spotted Salamander, Ruffed Grouse, Spruce

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
	White-tailed Deer Black Bear Other species: Brook Trout THREATENED Forest-dwelling Woodland Caribou	obvious source for the surface water. Often they are found within headwater areas within forested habitats. Any forested Ecosite within the headwater areas of a stream could have seeps/springs or ground water recharge areas.		vegetation, height of trees and groundwater condition need to be considered in delineation the habitat • SWH MIST Index #30 provides development effects and mitigation measures	Grouse, Moose, Black Bear, and Caribou are found in the Study Area.
Mineral Licks (Rationale: Mineral licks are a valuable habitat component but are also very rare on the landscape)	Moose White-tailed Deer Porcupine and other species may utilize these sites as well THREATENED Woodland Caribou	Habitat may be found in all treed ecosites. Most probable in clay ecosities: B110-B125	This habitat component is found in upwelling groundwater and the soil around these seepage areas. It typically occurs in areas of sedimentary and volcanic bedrock. In areas of granitic bedrock, the site is usually overlain with calcareous glacial till Does not include anthropogenic sources such as roadsides	• A mineral lick with evidence of use by any of the wildlife species is considered SWH. • Field investigations should be conducted in early spring prior to leaf out; however, sites may be difficult to locate. • The area of the habitat is the wetland, seep or spring containing the mineral lick with associated activity and 120m of undisturbed contiguous forest around the site dependent on level of disturbance in the area • SWHMiST Index #29 provides development effects and mitigation measures.	**Candidate** It is likely mineral licks occur somewhere in the Study Area, although they were not documented. Moose, Porcupine, and Caribou are found in the Study Area.
Mammal Denning Site (Rationale: Species are important fur-bearing mammals and den sites can be a limiting factor in sustaining populations)	Mink Otter Gray Wolf Canada Lynx Bobcat Black Bear Red Fox Cavity Users Marten Fisher THREATENED Algonquin Wolf, Cougar, Gray Fox and Wolverine	Habitat may be found in all treed ecosites	Mink prefer shorelines dominated by coniferous or mixed forests with dens usually underground. Mink will often use old muskrat lodges. Mink may den in root masses along shorelines of water bodies. Otters prefer undisturbed shorelines along water bodies that support productive fish populations with abundant shrubby vegetation and downed woody debris for denning. They often use old beaver lodges or log jams and crevices in rock piles. Marten and fisher share the same general habitat, requiring large tracts of coniferous or mixed forests of mature or older age classes. Denning sites are often in cavities in large trees or under large downed woody debris. Wolves prefer a more interior forest condition for locating their den sites. Wolves often select sandy sites, sloped for excavation (esker areas	• Wolf den sites (gray or eastern) and a 200m radius will be considered significant. • Any known active denning site and a 100 m radius around it with the remaining listed species is considered to be significant. • Extensive searches for denning sites are not recommended as they are very difficult to locate but protection of most suitable habitat should be considered during planning. • SWHMiST Index #31 provides development effects and mitigation measures.	**Candidate** Most indicator species were confirmed in the aerial surveys. No denning sites are confirmed

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
			should be examined as potentially key sites). Wolf dens are often located in close proximity to wetlands. Lynx den sites are most often associated with the presence of downed woody debris. Black bears, particularly sub-adults, will often den in the base of hollow trees. In 3W such trees are rare and primarily consist of large diameter cedar or sometimes large white spruce.		
Marsh Bird Breeding Habitat (Rationale: Rich wetlands are productive breeding habitats for these bird species and rare in Northern Ontario landscapes.)	Trumpeter Swan Ring-necked Duck Green-winged Teal Northern Shoveler Pied-billed Grebe Red-necked Grebe Virginia Rail Sora American Coot Sandhill Crane Common Loon American Bittern Spotted Sandpiper Sedge Wren Marsh Wren Special Concern: Yellow Rail Black Tern	Ecosites: B134-B152	• Nesting occurs in wetlands. • All wetland habitat is to be considered as long as there is shallow water with emergent aquatic vegetation present Storm water retention ponds and sewage lagoons are not considered SWH.	Studies confirm: • Presence of 5 or more nesting pairs of any combination of the listed species • Presence of one or more breeding pair of trumpeter swans is significant. • Note: any wetland with breeding of 1 or more Black Terns or Yellow Rail is SWH • Area of the ELC ecosite is the SWH. • Breeding surveys should be done in May/July when these species are actively nesting in wetland habitats. • Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects” • SWH MIST Index #35 provides development effects and mitigation measures	**Confirmed** Ecosites B135, B136, B137, B138, B139, B140, B141, B142, B148, B150, B152 are present. Field Investigations 2021 found: Common Loon Ring-necked Duck Sandhill Crane Sedge Wren Sora Spotted Sandpiper *Trumpeter Swan-2 nests and 1 pair* Several species were documented in OBBA regional data: American Bittern American Coot Black Tern Common Loon Green-winged Teal Marsh Wren Northern Shoveler Pied-billed Grebe Red-necked Grebe Ring-necked Duck Sandhill Crane Sedge Wren

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
					Sora Spotted Sandpiper Trumpeter Swan Virginia Rail
Open Country Bird Breeding Habitat (Rationale: This wildlife habitat is declining throughout Ontario and North America.)	Upland Sandpiper Black-billed Magpie Western Meadowlark Eastern Bluebird Vesper Sparrow Le Conte's Sparrow Special Concern Short-eared Owl THREATENED Bobolink and Eastern Meadowlark	All field, meadow, open bog or fen, and sparse shrub ecosites: B08-09 B20-21 B29-31 B44-46 B60-62 B77-79 B93-95 B109-111 B136-141	• Large grassland areas (includes natural and cultural fields and meadows) >30 ha • Grasslands not Class 1 or 2 agricultural lands, and not being actively used for farming (*i.e.,* no row cropping or intensive hay or livestock pasturing in the last 5 years) • Grassland sites considered significant should have a history of longevity, either abandoned fields, mature hayfields and pasturelands that are at least 5 years or older. • The Indicator bird species are area sensitive requiring larger grassland areas than the common grassland species	Field studies confirm: • Presence of nesting or breeding of 2 or more of the listed species • A field with 1 or more breeding Short-eared Owls is to be considered SWH • The area of SWH is the contiguous ELC ecosite field areas • Conduct field investigations of the most likely areas in spring and early summer when birds are singing and defending their territories • Evaluation methods to follow "Bird and Bird Habitats: Guidelines for Wind Power Projects" • SWH MIST Index #32 provides development effects and mitigation measures	**Not Present** Ecosites are not documented in the Study Area. Vesper Sparrow was documented in 2021 field surveys. No indicator species previously documented by others. OBBA regional data has: Eastern Bluebird Le Conte's Sparrow Short-eared Owl Vesper Sparrow
Habitats of Species of Conservation Concern					
Special Concern and Rare Wildlife Species (Rationale: These species are quite rare or have experienced significant population declines in Ontario.)	All Special Concern and Provincially Rare (S1, S2, S3, SH) plant and animal species. Lists of these species are tracked by the NHIC	All plant and animal element occurrences (EOs) within a 1 km or 10 km grid. Older EOs were recorded prior to GPS being available, therefore location information may lack accuracy.	• When an element occurrence is identified within a 1 or 10 km grid for a Special Concern or provincially Rare species; linking candidate habitat on the site needs to be completed to ELC Ecosites	Studies confirm: • Assessment/inventory of the site for the identified special concern or rare species needs to be completed during the time of year when the species is present or easily identifiable. • Habitat form and function needs to be assessed from the assessment of vegetation types and an area of significant habitat that protects the rare or special concern species identified. • The habitat needs to be easily mapped and cover an important life stage component for a species (e.g. specific nesting habitat or foraging habitat). • The area of the habitat to the finest ELC scale that protects the habitat form and function is the SWH; this must be delineated through detailed field studies. • SWH MIST Index #37 provides development effects and mitigation measures	**Candidate** Several species documented in Secondary Sources are Special Concern or Provincially Rare. These species must be documented within the Project Site to confirm presence. Species not listed THR or END on ESA are: Black Tern Caspian Tern Golden Eagle Horned Grebe Palm Warbler Red-necked Grebe Short-eared Owl Yellow-headed Blackbird **Confirmed Species (not THR or END on the ESA):** Bald Eagle Canada Warbler

Significant Wildlife Habitat Type (3E)	Indicator Wildlife Species	Ecosites/ Habitat Description	Criteria and Information Sources	Defining Criteria	Confirmed or Candidate SWH
					Common Nighthawk Olive-sided Flycatcher Floating Marsh Marigold Black Ash Nahanni Oak Fern Northern Marsh Violet Alpine Woodsia Old World Swallowtail Subarctic Darner
Animal Movement Corridors					
Cervid Movement Corridors (Rationale: Corridors important for all species to be able to access seasonally important life-cycle habitats or to access new habitat for dispersing individuals by minimizing their vulnerability while travelling)	Moose	Corridors may be found in all treed ecosites.	Movement corridor must be determined when Moose Aquatic Feeding Area and Mineral Lick Habitat are confirmed from this schedule. Corridors typically follow riparian areas, woodlots, areas of physical geography (ravines, or ridges). Corridors will be multi-functional i.e. these will function for any smaller mammal species as well.	• Studies must be conducted at the time of year when moose are moving to mineral licks or aquatic feeding areas (May – July). • Studies should include a description of surrounding forest matrix for determination of significance. • Corridors that lead moose to MAFAs and mineral licks should remain intact. • Corridors with greater canopy coverage width having fewer gaps are more significant • SWHMiST Index #39 provides development effects and mitigation measures. • Corridors with greater canopy coverage width having fewer gaps are more significant.	**Moose Aquatic Feeding Area is confirmed.**
Amphibian Movement Corridors (Rationale: Movement corridors for amphibians moving from their terrestrial habitat to breeding habitat can be extremely important for local populations.)	Eastern Newt Blue-spotted Salamander Spotted Salamander Northern Leopard Frog Green Frog Mink Frog	Corridors may be found in all ecosites associated with water. Corridors will be determined based on identifying the significant breeding habitat for these species above	• Movement corridors between breeding habitat and summer habitat • Movement corridors must be determined when amphibian breeding habitat is confirmed as SWH (Amphibian Breeding Habitat)	• Field Studies must be conducted at the time of year when species are expected to be migrating or entering breeding sites (April-July) • Corridors should consist of native vegetation, with several layers of vegetation. Corridors unbroken by roads, waterways or bodies, and undeveloped areas are most significant • Corridors should have at least 15m of vegetation on both sides of waterway or be up to 200m wide of woodland habitat and with gaps <20m • Shorter corridors are more significant than longer corridors, however amphibians must be able to get to and from their summer and breeding habitat • SWH MIST Index #40 provides development effects and mitigation measures	**Not confirmed above**

Attachment 7
Avian Point Count and Autonomous Recording Unit Analysis Results

Appendix 7: Avian Point Count and ARU Analyses Results

Table 1. Generalized linear models compared for each species to model density from avian point count survey data. See section 2.4.2 for a full description of the modelling procedure. The location of the survey relative to the LSA boundary (Treatment; within the LSA or outside the LSA) was included in all models. Combinations of habitat variables were selected as covariates in each model based on typical or expected habitat preferences for potentially occurring species. The survey year (Year) is included in models of species for which Year was determined to be an important predictor of density through the hierarchical modelling process. Species specific QPAD offsets for detection probability were included in each model. The location of each point count transect or cluster (route), and the identity of the point count location (Point) were included as random intercepts. The best fitting distribution family used for the model is also provided. The best-fitting model for each species was selected based on its AICc and delta AICc values. Models are sorted by their AICc values.

Species	Model	Family	AICc	Delta AICc
Alder Flycatcher	**Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)**	poisson	**673.5**	**0.0**
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		692.0	18.5
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		693.1	19.5
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		696.4	22.8
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		699.3	25.8
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		704.1	30.5
	Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		711.7	38.2
	Treatment + offset + (1 | route) + (1 | Point)		713.2	39.7
American Robin	**Treatment + log(Wetlandloc) + log(Riparianloc) + offset + (1 | route) + (1 | Point)**	poisson	**356.0**	**0.0**
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		356.6	0.6
	Treatment + Treedloc + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		357.1	1.2
	Treatment + log(Disturbedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		357.2	1.2
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + offset + (1 | route) + (1 | Point)		363.0	7.0
	Treatment + offset + (1 | route) + (1 | Point)		363.3	7.3
	Treatment + Treedloc + log(Distance to Water) + offset + (1 | route) + (1 | Point)		363.3	7.3
	Treatment + log(Disturbedloc) + Treedloc + offset + (1 | route) + (1 | Point)		367.3	11.3
Black-backed Woodpecker	**Treatment + Year + offset + (1 | route) + (1 | Point)**	nbinom1	**286.2**	**0.0**
	Treatment + Treedloc + log(Distance to Water) + Year + offset + (1 | route) + (1 | Point)		287.7	1.6
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		288.6	2.4
	Treatment + log(Disturbedloc) + Treedloc + Year + offset + (1 | route) + (1 | Point)		289.6	3.5

Species	Model	Family	AICc	Delta AICc
	Treatment + log(Disturbedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		289.7	3.5
	Treatment + Treedloc + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		289.8	3.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + Year + offset + (1 | route) + (1 | Point)		289.8	3.6
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		290.6	4.4
Blue-headed Vireo	**Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)**	poisson	**506.1**	**0.0**
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		509.5	3.4
	Treatment + Year + offset + (1 | route) + (1 | Point)		511.4	5.3
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		512.3	6.2
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		512.5	6.4
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		512.7	6.6
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		513.9	7.8
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		514.0	7.9
Bonaparte's Gull	**Treatment + log(Disturbedloc) + Treedloc + offset + (1 | route) + (1 | Point)**	poisson	**318.0**	**0.0**
	Treatment + offset + (1 | route) + (1 | Point)		322.1	4.2
	Treatment + log(Disturbedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		323.8	5.8
	Treatment + log(Wetlandloc) + log(Riparianloc) + offset + (1 | route) + (1 | Point)		324.5	6.5
	Treatment + Treedloc + log(Distance to Water) + offset + (1 | route) + (1 | Point)		324.9	6.9
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		325.8	7.8
	Treatment + Treedloc + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		327.8	9.8
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + offset + (1 | route) + (1 | Point)		330.0	12.1
Boreal Chickadee	**Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)**	poisson	**260.2**	**0.0**
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		260.9	0.7
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		261.4	1.3
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		263.3	3.1
	Treatment + Year + offset + (1 | route) + (1 | Point)		263.4	3.2
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		263.5	3.3
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		265.9	5.7
	Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		266.4	6.3
Brown Creeper	**Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + offset + (1 | route) + (1 | Point)**	poisson	**299.2**	**0.0**

Species	Model	Family	AICc	Delta AICc
	Treatment + Treedloc + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		312.6	13.4
	Treatment + log(Disturbedloc) + Treedloc + offset + (1 | route) + (1 | Point)		314.6	15.4
	Treatment + log(Disturbedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		314.6	15.4
	Treatment + Treedloc + log(Distance to Water) + offset + (1 | route) + (1 | Point)		315.3	16.1
	Treatment + offset + (1 | route) + (1 | Point)		315.6	16.4
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		318.3	19.1
	Treatment + log(Wetlandloc) + log(Riparianloc) + offset + (1 | route) + (1 | Point)		320.6	21.4
Canada Jay	**Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)**	nbinom1	**696.6**	**0.0**
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		697.9	1.3
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		713.8	17.3
	Treatment + offset + (1 | route) + (1 | Point)		714.4	17.8
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		715.0	18.4
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		715.5	19.0
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		716.2	19.6
	Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		716.6	20.0
Cape May Warbler	**Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)**	poisson	**285.4**	**0.0**
	Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		287.8	2.4
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		288.3	2.8
	Treatment + Year + offset + (1 | route) + (1 | Point)		289.0	3.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		290.1	4.7
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		290.8	5.3
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		291.0	5.5
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		292.1	6.7
Cedar Waxwing	**Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)**	nbinom1	**480.2**	**0.0**
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		482.5	2.4
	Treatment + log(Disturbedloc) + Treedloc + Year + offset + (1 | route) + (1 | Point)		482.9	2.7
	Treatment + log(Wetlandloc) + log(Riparianloc) + Year + offset + (1 | route) + (1 | Point)		483.1	2.9
	Treatment + log(Disturbedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		484.9	4.7
	Treatment + Treedloc + log(Distance to Water) + Year + offset + (1 | route) + (1 | Point)		486.5	6.4

Species	Model	Family	AICc	Delta AICc
	Treatment + Year + offset + (1 | route) + (1 | Point)		492.5	12.4
	Treatment + Treedloc + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		495.3	15.2
Chipping Sparrow	**Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)**	poisson	**684.4**	**0.0**
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		685.7	1.3
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		688.2	3.8
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		689.1	4.7
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		691.6	7.2
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		692.5	8.1
	Treatment + offset + (1 | route) + (1 | Point)		697.6	13.2
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		699.0	14.6
Common Raven	**Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)**	poisson	**336.4**	**0.0**
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		339.3	2.9
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		339.4	3.0
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		339.7	3.3
	Treatment + Year + offset + (1 | route) + (1 | Point)		345.9	9.5
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		346.2	9.8
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		348.1	11.7
	Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		349.9	13.5
Common Yellowthroat	**Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)**	poisson	**290.5**	**0.0**
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		291.4	0.8
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		301.4	10.9
	Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		301.7	11.2
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		307.2	16.6
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		308.9	18.4
	Treatment + Year + offset + (1 | route) + (1 | Point)		312.2	21.6
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		316.0	25.5
Connecticut Warbler	**Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)**	poisson	**261.0**	**0.0**
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		263.1	2.1
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		263.3	2.3

Species	Model	Family	AICc	Delta AICc
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		266.8	5.8
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		270.4	9.4
	Treatment + offset + (1 | route) + (1 | Point)		283.2	22.2
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		284.1	23.1
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		286.3	25.3
Dark-eyed- Junco	**Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)**	poisson	**1230.3**	**0.0**
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		1236.4	6.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1241.9	11.6
	Treatment + Treedloc + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1242.0	11.7
	Treatment + log(Wetlandloc) + log(Riparianloc) + Year + offset + (1 | route) + (1 | Point)		1243.0	12.7
	Treatment + Year + offset + (1 | route) + (1 | Point)		1254.3	24.0
	Treatment + Treedloc + log(Distance to Water) + Year + offset + (1 | route) + (1 | Point)		1257.0	26.6
	Treatment + log(Disturbedloc) + Treedloc + Year + offset + (1 | route) + (1 | Point)		1258.3	28.0
Golden-crowned Kinglet	**Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + offset + (1 | route) + (1 | Point)**	poisson	**837.2**	**0.0**
	Treatment + Treedloc + log(Distance to Water) + offset + (1 | route) + (1 | Point)		842.0	4.8
	Treatment + log(Disturbedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		842.2	5.0
	Treatment + log(Disturbedloc) + Treedloc + offset + (1 | route) + (1 | Point)		843.1	5.9
	Treatment + Treedloc + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		844.1	6.9
	Treatment + offset + (1 | route) + (1 | Point)		849.3	12.1
	Treatment + log(Wetlandloc) + log(Riparianloc) + offset + (1 | route) + (1 | Point)		849.5	12.3
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		851.5	14.3
Greater Yellowlegs	**Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)**	poisson	**248.2**	**0.0**
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		249.4	1.1
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		251.7	3.4
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		251.8	3.6
	Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		251.9	3.7
	Treatment + offset + (1 | route) + (1 | Point)		252.5	4.2
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		255.4	7.2
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		255.6	7.4

Species	Model	Family	AICc	Delta AICc
Hairy Woodpecker	**Treatment + Year + offset + (1 | route) + (1 | Point)**	poisson	**178.7**	**0.0**
	Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		179.4	0.7
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		181.1	2.4
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		181.1	2.4
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		181.5	2.8
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		181.6	3.0
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		182.3	3.6
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		182.4	3.7
Hermit Thrush	**Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)**	poisson	**718.1**	**0.0**
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		719.0	0.9
	Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		719.4	1.3
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		720.4	2.3
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		720.8	2.7
	Treatment + offset + (1 | route) + (1 | Point)		722.7	4.6
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		724.1	6.0
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		726.2	8.2
Least Flycatcher	**Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)**	poisson	**441.1**	**0.0**
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		442.8	1.7
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		444.5	3.5
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		446.0	4.9
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		447.4	6.3
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		448.9	7.8
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		450.1	9.1
	Treatment + offset + (1 | route) + (1 | Point)		454.9	13.8
Lincoln's Sparrow	**Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)**	poisson	**475.4**	**0.0**
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		486.5	11.1
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		488.4	13.0
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		488.5	13.1
	Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		489.0	13.7

Species	Model	Family	AICc	Delta AICc
	Treatment + offset + (1 | route) + (1 | Point)		492.7	17.3
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		492.8	17.4
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		494.3	18.9
Magnolia Warbler	**Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)**	poisson	**860.1**	**0.0**
	Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		865.5	5.4
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		867.5	7.3
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		868.5	8.4
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		869.4	9.3
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		874.9	14.7
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		875.1	14.9
	Treatment + offset + (1 | route) + (1 | Point)		882.8	22.7
Mourning Warbler	**Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)**	poisson	**233.9**	**0.0**
	Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		239.7	5.8
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		243.1	9.1
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		243.7	9.8
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		244.5	10.5
	Treatment + offset + (1 | route) + (1 | Point)		245.0	11.0
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		245.0	11.0
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		247.9	14.0
Nashville Warbler	**Treatment + log(Disturbedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)**	poisson	**1608.0**	**0.0**
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1608.5	0.5
	Treatment + Treedloc + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1608.5	0.5
	Treatment + log(Wetlandloc) + log(Riparianloc) + Year + offset + (1 | route) + (1 | Point)		1608.6	0.6
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		1617.9	9.9
	Treatment + Year + offset + (1 | route) + (1 | Point)		1622.7	14.7
	Treatment + log(Disturbedloc) + Treedloc + Year + offset + (1 | route) + (1 | Point)		1624.8	16.9
	Treatment + Treedloc + log(Distance to Water) + Year + offset + (1 | route) + (1 | Point)		1625.0	17.1
Northern Flicker	**Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + offset + (1 | route) + (1 | Point)**	poisson	**431.5**	**0.0**
	Treatment + log(Disturbedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		438.7	7.2

Species	Model	Family	AICc	Delta AICc
	Treatment + Treedloc + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		439.1	7.6
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		441.0	9.5
	Treatment + log(Disturbedloc) + Treedloc + offset + (1 | route) + (1 | Point)		441.2	9.7
	Treatment + log(Wetlandloc) + log(Riparianloc) + offset + (1 | route) + (1 | Point)		441.6	10.1
	Treatment + Treedloc + log(Distance to Water) + offset + (1 | route) + (1 | Point)		442.2	10.7
	Treatment + offset + (1 | route) + (1 | Point)		442.4	10.9
Northern Waterthrush	**Treatment + offset + (1 | route) + (1 | Point)**	poisson	**156.5**	**0.0**
	Treatment + Treedloc + log(Distance to Water) + offset + (1 | route) + (1 | Point)		158.4	1.9
	Treatment + log(Disturbedloc) + Treedloc + offset + (1 | route) + (1 | Point)		158.4	2.0
	Treatment + Treedloc + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		158.7	2.2
	Treatment + log(Disturbedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		160.0	3.5
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		160.1	3.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + offset + (1 | route) + (1 | Point)		160.2	3.7
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + offset + (1 | route) + (1 | Point)		160.3	3.8
Olive-sided Flycatcher	**Treatment + log(Disturbedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)**	poisson	**546.3**	**0.0**
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		546.4	0.1
	Treatment + log(Disturbedloc) + Treedloc + Year + offset + (1 | route) + (1 | Point)		546.4	0.1
	Treatment + Year + offset + (1 | route) + (1 | Point)		551.0	4.7
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		551.1	4.8
	Treatment + Treedloc + log(Distance to Water) + Year + offset + (1 | route) + (1 | Point)		551.8	5.6
	Treatment + Treedloc + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		551.8	5.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + Year + offset + (1 | route) + (1 | Point)		554.7	8.4
Orange-crowned Warbler	**Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)**	poisson	**316.7**	**0.0**
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		317.6	0.8
	Treatment + Year + offset + (1 | route) + (1 | Point)		321.9	5.2
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		325.0	8.2
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		325.5	8.7
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		325.6	8.8
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		325.6	8.9

Species	Model	Family	AICc	Delta AICc
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		325.9	9.2
Ovenbird	**Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + offset + (1 | route) + (1 | Point)**	poisson	**247.4**	**0.0**
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		250.6	3.2
	Treatment + Treedloc + log(Distance to Water) + offset + (1 | route) + (1 | Point)		252.3	4.9
	Treatment + Treedloc + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		252.7	5.4
	Treatment + log(Disturbedloc) + Treedloc + offset + (1 | route) + (1 | Point)		253.5	6.1
	Treatment + offset + (1 | route) + (1 | Point)		255.2	7.8
	Treatment + log(Disturbedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		255.6	8.2
	Treatment + log(Wetlandloc) + log(Riparianloc) + offset + (1 | route) + (1 | Point)		256.7	9.3
Palm Warbler	**Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + Year + offset + (1 | route) + (1 | Point)**	poisson	**725.3**	**0.0**
	Treatment + Treedloc + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		735.7	10.5
	Treatment + log(Disturbedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		740.0	14.7
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		742.3	17.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + Year + offset + (1 | route) + (1 | Point)		748.7	23.5
	Treatment + log(Disturbedloc) + Treedloc + Year + offset + (1 | route) + (1 | Point)		756.7	31.4
	Treatment + Treedloc + log(Distance to Water) + Year + offset + (1 | route) + (1 | Point)		757.1	31.9
	Treatment + Year + offset + (1 | route) + (1 | Point)		758.4	33.2
Philadelphia Vireo	**Treatment + Year + offset + (1 | route) + (1 | Point)**	poisson	**228.1**	**0.0**
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		231.1	3.1
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		231.3	3.2
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		231.4	3.4
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		231.6	3.5
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		231.7	3.7
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		232.1	4.0
	Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		232.1	4.1
Pine Siskin	**Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)**	nbinom1	**608.5**	**0.0**
	Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		616.0	7.5
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		616.2	7.7
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		617.7	9.2

Species	Model	Family	AICc	Delta AICc
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		620.5	12.0
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		621.8	13.3
	Treatment + Year + offset + (1 | route) + (1 | Point)		623.2	14.7
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		624.7	16.2
Red-breasted Nuthatch	**Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)**	poisson	**485.3**	**0.0**
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		486.9	1.6
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		488.6	3.2
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		489.1	3.8
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		489.3	4.0
	Treatment + Year + offset + (1 | route) + (1 | Point)		491.6	6.3
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		494.7	9.4
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		495.7	10.3
Red-eyed Vireo	**Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)**	poisson	**464.8**	**0.0**
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		467.5	2.7
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		467.5	2.7
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		467.6	2.8
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		467.6	2.8
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		469.5	4.7
	Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		470.1	5.3
	Treatment + offset + (1 | route) + (1 | Point)		472.4	7.6
Ruby-crowned Kinglet	**Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)**	poisson	**1931.9**	**0.0**
	Treatment + Treedloc + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1932.5	0.7
	Treatment + log(Disturbedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1933.5	1.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + Year + offset + (1 | route) + (1 | Point)		1933.6	1.7
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		1934.9	3.0
	Treatment + Year + offset + (1 | route) + (1 | Point)		1941.4	9.5
	Treatment + Treedloc + log(Distance to Water) + Year + offset + (1 | route) + (1 | Point)		1941.5	9.6
	Treatment + log(Disturbedloc) + Treedloc + Year + offset + (1 | route) + (1 | Point)		1941.5	9.6
Sandhill Crane	**Treatment + Year + offset + (1 | route) + (1 | Point)**	nbinom1	**418.2**	**0.0**

Species	Model	Family	AICc	Delta AICc
	Treatment + log(Disturbedloc) + Treedloc + Year + offset + (1 | route) + (1 | Point)		419.7	1.5
	Treatment + log(Disturbedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		419.8	1.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + Year + offset + (1 | route) + (1 | Point)		421.2	3.0
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		421.4	3.2
	Treatment + Treedloc + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		421.9	3.7
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		422.6	4.4
	Treatment + Treedloc + log(Distance to Water) + Year + offset + (1 | route) + (1 | Point)		442.3	24.1
Swainson's Thrush	**Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)**	poisson	**349.6**	**0.0**
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		357.9	8.3
	Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		358.6	9.0
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		360.0	10.4
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		360.7	11.0
	Treatment + offset + (1 | route) + (1 | Point)		361.8	12.2
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		364.1	14.5
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		364.7	15.1
Swamp Sparrow	**Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)**	poisson	**467.5**	**0.0**
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		470.5	3.1
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		498.1	30.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		502.0	34.5
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		510.3	42.8
	Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		516.0	48.6
	Treatment + offset + (1 | route) + (1 | Point)		517.4	50.0
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		519.1	51.7
Tennessee Warbler	**Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)**	poisson	**722.0**	**0.0**
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		722.3	0.3
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		725.7	3.8
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		725.8	3.8
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		728.0	6.0
	Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		729.1	7.1

Species	Model	Family	AICc	Delta AICc
	Treatment + Year + offset + (1 | route) + (1 | Point)		730.4	8.5
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		732.2	10.3
White-throated Sparrow	**Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + Year + offset + (1 | route) + (1 | Point)**	poisson	**1524.2**	**0.0**
	Treatment + log(Disturbedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1524.8	0.6
	Treatment + log(Disturbedloc) + Treedloc + Year + offset + (1 | route) + (1 | Point)		1526.6	2.4
	Treatment + Treedloc + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1531.8	7.6
	Treatment + Treedloc + log(Distance to Water) + Year + offset + (1 | route) + (1 | Point)		1534.8	10.6
	Treatment + Year + offset + (1 | route) + (1 | Point)		1544.2	20.0
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1547.0	22.8
	Treatment + log(Wetlandloc) + log(Riparianloc) + Year + offset + (1 | route) + (1 | Point)		1547.9	23.7
White-winged Crossbill	**Treatment + log(Disturbedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)**	nbinom1	**271.0**	**0.0**
	Treatment + Treedloc + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		271.2	0.2
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + offset + (1 | route) + (1 | Point)		271.4	0.4
	Treatment + log(Wetlandloc) + log(Riparianloc) + offset + (1 | route) + (1 | Point)		271.7	0.7
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + offset + (1 | route) + (1 | Point)		272.5	1.5
	Treatment + offset + (1 | route) + (1 | Point)		272.5	1.5
	Treatment + Treedloc + log(Distance to Water) + offset + (1 | route) + (1 | Point)		276.5	5.5
	Treatment + log(Disturbedloc) + Treedloc + offset + (1 | route) + (1 | Point)		276.5	5.5
Wilson's Warbler	**Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)**	poisson	**366.7**	**0.0**
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		367.8	1.1
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		377.8	11.1
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		378.9	12.2
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		379.5	12.9
	Treatment + offset + (1 | route) + (1 | Point)		380.1	13.4
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		383.3	16.6
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		384.0	17.3
Winter Wren	**Treatment + Disturbedloc + Wetlandloc + offset + (1 | route) + (1 | Point)**	poisson	**771.5**	**0.0**
	Treatment + Disturbedloc + Treedloc + offset + (1 | route) + (1 | Point)		771.9	0.4
	Treatment + Treedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		772.1	0.6

Species	Model	Family	AICc	Delta AICc
	Treatment + Treedloc + Distance to Water + offset + (1 | route) + (1 | Point)		772.3	0.8
	Treatment + offset + (1 | route) + (1 | Point)		772.3	0.8
	Treatment + Wetlandloc + Riparianloc + offset + (1 | route) + (1 | Point)		773.1	1.6
	Treatment + Deciduous Mixedloc + Wetlandloc + offset + (1 | route) + (1 | Point)		773.6	2.1
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + offset + (1 | route) + (1 | Point)		776.2	4.7
Yellow-bellied Flycatcher	**Treatment + Deciduous Mixedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)**	poisson	**828.9**	**0.0**
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		833.5	4.6
	Treatment + Treedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		834.4	5.4
	Treatment + Wetlandloc + Riparianloc + Year + offset + (1 | route) + (1 | Point)		834.5	5.6
	Treatment + Disturbedloc + Wetlandloc + Year + offset + (1 | route) + (1 | Point)		834.6	5.7
	Treatment + Year + offset + (1 | route) + (1 | Point)		839.0	10.1
	Treatment + Treedloc + Distance to Water + Year + offset + (1 | route) + (1 | Point)		841.7	12.8
	Treatment + Disturbedloc + Treedloc + Year + offset + (1 | route) + (1 | Point)		842.2	13.3
Yellow-rumped Warbler	**Treatment + Year + offset + (1 | route) + (1 | Point)**	poisson	**1085.8**	**0.0**
	Treatment + log(Disturbedloc) + Treedloc + Year + offset + (1 | route) + (1 | Point)		1087.5	1.7
	Treatment + Treedloc + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1087.7	1.9
	Treatment + Treedloc + log(Distance to Water) + Year + offset + (1 | route) + (1 | Point)		1087.9	2.1
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1089.5	3.7
	Treatment + log(Disturbedloc) + log(Wetlandloc) + Year + offset + (1 | route) + (1 | Point)		1089.7	3.9
	Treatment + log(Wetlandloc) + log(Riparianloc) + Year + offset + (1 | route) + (1 | Point)		1089.8	4.1
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + Year + offset + (1 | route) + (1 | Point)		1090.0	4.2

Table 2. Results from diagnostic tests to evaluate the goodness-of-fit (GOF) of the best-fitting density models from avian point count data. Tests for normality and homogeneity of variances of residuals (Residuals test), zero inflation, presence of outliers, and correlations between residuals and predictors were conducted with R package "DHARMa" (Hartig 2019). Model fit was evaluated based on adjusted p-values from these tests (at α=0.01).

Species	Coefficient	Residuals test	Zero Inflation test	Outlier test	Residual vs Predictors tests
Alder Flycatcher	(Intercept)	0.428	0.576	0.480	-
	Treatment (Out LSA)	0.428	0.576	0.480	-
	Coniferousloc	0.428	0.576	0.480	0.555
	Deciduous Mixedloc	0.428	0.576	0.480	0.632
	MatureForestloc	0.428	0.576	0.480	0.055
American Robin	(Intercept)	<0.001	0.504	>0.999	-
	Treatment (Out LSA)	<0.001	0.504	>0.999	-
	log(Wetlandloc)	<0.001	0.504	>0.999	0.210
	log(Riparianloc)	<0.001	0.504	>0.999	0.490
Black-backed Woodpecker	(Intercept)	0.001	0.696	0.260	-
	Treatment (Out LSA)	0.001	0.696	0.260	-
	Year (2022)	0.001	0.696	0.260	-
Blue-headed Vireo	(Intercept)	0.267	0.960	0.440	-
	Treatment (Out LSA)	0.267	0.960	0.440	-
	Deciduous Mixedloc	0.267	0.960	0.440	0.058
	Wetlandloc	0.267	0.960	0.440	0.593
	Year (2022)	0.267	0.960	0.440	-
Bonaparte's Gull	(Intercept)	0.024	0.968	0.660	-
	Treatment (Out LSA)	0.024	0.968	0.660	-
	log(Disturbedloc)	0.024	0.968	0.660	0.620
	Treedloc	0.024	0.968	0.660	0.156
Boreal Chickadee	(Intercept)	0.782	0.408	0.760	-
	Treatment (Out LSA)	0.782	0.408	0.760	-
	Treedloc	0.782	0.408	0.760	0.558
	Distance to Water	0.782	0.408	0.760	0.773
	Year (2022)	0.782	0.408	0.760	-
Brown Creeper	(Intercept)	0.004	0.552	>0.999	-
	Treatment (Out LSA)	0.004	0.552	>0.999	-
	Coniferousloc	0.004	0.552	>0.999	0.135
	log(Deciduous Mixedloc)	0.004	0.552	>0.999	0.003
	MatureForestloc	0.004	0.552	>0.999	0.204
Canada Jay	(Intercept)	0.169	0.760	0.620	-
	Treatment (Out LSA)	0.169	0.760	0.620	-
	Deciduous Mixedloc	0.169	0.760	0.620	0.222
	Wetlandloc	0.169	0.760	0.620	0.585
Cape May Warbler	(Intercept)	0.671	0.728	0.660	-
	Treatment (Out LSA)	0.671	0.728	0.660	-
	Disturbedloc	0.671	0.728	0.660	0.020
	Wetlandloc	0.671	0.728	0.660	0.975
	Year (2022)	0.671	0.728	0.660	-
Cedar Waxwing	(Intercept)	0.054	<0.001	0.380	-
	Treatment (Out LSA)	0.054	<0.001	0.380	-

Species	Coefficient	Residuals test	Zero Inflation test	Outlier test	Residual vs Predictors tests
	log(Deciduous Mixedloc)	0.054	<0.001	0.380	0.012
	log(Wetlandloc)	0.054	<0.001	0.380	0.048
	Year (2022)	0.054	<0.001	0.380	-
Chipping Sparrow	(Intercept)	0.956	>0.999	0.400	-
	Treatment (Out LSA)	0.956	>0.999	0.400	-
	Disturbedloc	0.956	>0.999	0.400	0.079
	Wetlandloc	0.956	>0.999	0.400	0.680
Common Raven	(Intercept)	0.678	>0.999	0.240	-
	Treatment (Out LSA)	0.678	>0.999	0.240	-
	Coniferousloc	0.678	>0.999	0.240	0.731
	Deciduous Mixedloc	0.678	>0.999	0.240	0.028
	MatureForestloc	0.678	>0.999	0.240	0.838
	Year (2022)	0.678	>0.999	0.240	-
Common Yellowthroat	(Intercept)	0.484	0.904	0.500	-
	Treatment (Out LSA)	0.484	0.904	0.500	-
	Coniferousloc	0.484	0.904	0.500	0.223
	Deciduous Mixedloc	0.484	0.904	0.500	0.247
	MatureForestloc	0.484	0.904	0.500	0.053
	Year (2022)	0.484	0.904	0.500	-
Connecticut Warbler	(Intercept)	0.523	0.800	0.620	-
	Treatment (Out LSA)	0.523	0.800	0.620	-
	Disturbedloc	0.523	0.800	0.620	0.988
	Wetlandloc	0.523	0.800	0.620	0.910
Dark-eyed- Junco	(Intercept)	<0.001	0.040	0.980	-
	Treatment (Out LSA)	<0.001	0.040	0.980	-
	log(Deciduous Mixedloc)	<0.001	0.040	0.980	0.782
	log(Wetlandloc)	<0.001	0.040	0.980	0.741
	Year (2022)	<0.001	0.040	0.980	-
Golden-crowned Kinglet	(Intercept)	<0.001	0.376	>0.999	-
	Treatment (Out LSA)	<0.001	0.376	>0.999	-
	Coniferousloc	<0.001	0.376	>0.999	0.945
	log(Deciduous Mixedloc)	<0.001	0.376	>0.999	0.777
	MatureForestloc	<0.001	0.376	>0.999	0.962
Greater Yellowlegs	(Intercept)	0.353	0.136	0.300	-
	Treatment (Out LSA)	0.353	0.136	0.300	-
	Wetlandloc	0.353	0.136	0.300	0.589
	Riparianloc	0.353	0.136	0.300	0.400
Hairy Woodpecker	(Intercept)	0.080	0.896	0.580	-
	Treatment (Out LSA)	0.080	0.896	0.580	-
	Year (2022)	0.080	0.896	0.580	-
Hermit Thrush	(Intercept)	0.505	0.880	0.500	-
	Treatment (Out LSA)	0.505	0.880	0.500	-
	Treedloc	0.505	0.880	0.500	0.062
	Wetlandloc	0.505	0.880	0.500	0.445
Least Flycatcher	(Intercept)	0.044	0.936	>0.999	-
	Treatment (Out LSA)	0.044	0.936	>0.999	-
	Disturbedloc	0.044	0.936	>0.999	0.940
	Wetlandloc	0.044	0.936	>0.999	0.832
Lincoln's Sparrow	(Intercept)	0.116	0.472	0.440	-

Species	Coefficient	Residuals test	Zero Inflation test	Outlier test	Residual vs Predictors tests
	Treatment (Out LSA)	0.116	0.472	0.440	-
	Coniferousloc	0.116	0.472	0.440	0.272
	Deciduous Mixedloc	0.116	0.472	0.440	0.699
	MatureForestloc	0.116	0.472	0.440	0.612
Magnolia Warbler	(Intercept)	0.012	0.896	0.380	-
	Treatment (Out LSA)	0.012	0.896	0.380	-
	Coniferousloc	0.012	0.896	0.380	0.739
	Deciduous Mixedloc	0.012	0.896	0.380	0.915
	MatureForestloc	0.012	0.896	0.380	0.318
Mourning Warbler	(Intercept)	0.571	>0.999	0.900	-
	Treatment (Out LSA)	0.571	>0.999	0.900	-
	Coniferousloc	0.571	>0.999	0.900	0.944
	Deciduous Mixedloc	0.571	>0.999	0.900	0.392
	MatureForestloc	0.571	>0.999	0.900	0.905
Nashville Warbler	(Intercept)	<0.001	<0.001	0.280	-
	Treatment (Out LSA)	<0.001	<0.001	0.280	-
	log(Disturbedloc)	<0.001	<0.001	0.280	0.228
	log(Wetlandloc)	<0.001	<0.001	0.280	0.159
	Year (2022)	<0.001	<0.001	0.280	-
Northern Flicker	(Intercept)	<0.001	0.320	0.560	-
	Treatment (Out LSA)	<0.001	0.320	0.560	-
	Coniferousloc	<0.001	0.320	0.560	0.024
	log(Deciduous Mixedloc)	<0.001	0.320	0.560	0.019
	MatureForestloc	<0.001	0.320	0.560	0.011
Northern Waterthrush	(Intercept)	<0.001	<0.001	0.340	-
	Treatment (Out LSA)	<0.001	<0.001	0.340	-
Olive-sided Flycatcher	(Intercept)	<0.001	0.296	0.320	-
	Treatment (Out LSA)	<0.001	0.296	0.320	-
	log(Disturbedloc)	<0.001	0.296	0.320	0.119
	log(Wetlandloc)	<0.001	0.296	0.320	0.365
	Year (2022)	<0.001	0.296	0.320	-
Orange-crowned Warbler	(Intercept)	0.172	0.920	0.540	-
	Treatment (Out LSA)	0.172	0.920	0.540	-
	Deciduous Mixedloc	0.172	0.920	0.540	0.031
	Wetlandloc	0.172	0.920	0.540	0.356
	Year (2022)	0.172	0.920	0.540	-
Ovenbird	(Intercept)	0.230	0.768	>0.999	-
	Treatment (Out LSA)	0.230	0.768	>0.999	-
	Coniferousloc	0.230	0.768	>0.999	0.214
	log(Deciduous Mixedloc)	0.230	0.768	>0.999	0.222
	MatureForestloc	0.230	0.768	>0.999	0.234
Palm Warbler	(Intercept)	0.059	0.688	>0.999	-
	Treatment (Out LSA)	0.059	0.688	>0.999	-
	Coniferousloc	0.059	0.688	>0.999	0.922
	log(Deciduous Mixedloc)	0.059	0.688	>0.999	0.019
	MatureForestloc	0.059	0.688	>0.999	0.812
	Year (2022)	0.059	0.688	>0.999	-
Philadelphia Vireo	(Intercept)	0.432	0.896	0.720	-
	Treatment (Out LSA)	0.432	0.896	0.720	-

Species	Coefficient	Residuals test	Zero Inflation test	Outlier test	Residual vs Predictors tests
	Year (2022)	0.432	0.896	0.720	-
Pine Siskin	(Intercept)	0.012	0.456	0.120	-
	Treatment (Out LSA)	0.012	0.456	0.120	-
	Coniferousloc	0.012	0.456	0.120	0.909
	Deciduous Mixedloc	0.012	0.456	0.120	0.465
	MatureForestloc	0.012	0.456	0.120	0.963
	Year (2022)	0.012	0.456	0.120	-
Red-breasted Nuthatch	(Intercept)	0.846	>0.999	0.860	-
	Treatment (Out LSA)	0.846	>0.999	0.860	-
	Deciduous Mixedloc	0.846	>0.999	0.860	0.322
	Wetlandloc	0.846	>0.999	0.860	0.279
	Year (2022)	0.846	>0.999	0.860	-
Red-eyed Vireo	(Intercept)	0.075	0.600	0.440	-
	Treatment (Out LSA)	0.075	0.600	0.440	-
	Treedloc	0.075	0.600	0.440	0.210
	Wetlandloc	0.075	0.600	0.440	0.230
Ruby-crowned Kinglet	(Intercept)	<0.001	0.008	0.340	-
	Treatment (Out LSA)	<0.001	0.008	0.340	-
	log(Deciduous Mixedloc)	<0.001	0.008	0.340	0.102
	log(Wetlandloc)	<0.001	0.008	0.340	0.232
	Year (2022)	<0.001	0.008	0.340	-
Sandhill Crane	(Intercept)	<0.001	<0.001	0.320	-
	Treatment (Out LSA)	<0.001	<0.001	0.320	-
	Year (2022)	<0.001	<0.001	0.320	-
Swainson's Thrush	(Intercept)	0.976	>0.999	>0.999	-
	Treatment (Out LSA)	0.976	>0.999	>0.999	-
	Treedloc	0.976	>0.999	>0.999	0.569
	Distance to Water	0.976	>0.999	>0.999	0.877
Swamp Sparrow	(Intercept)	0.011	>0.999	>0.999	-
	Treatment (Out LSA)	0.011	>0.999	>0.999	-
	Treedloc	0.011	>0.999	>0.999	0.722
	Distance to Water	0.011	>0.999	>0.999	0.733
Tennessee Warbler	(Intercept)	0.762	0.808	>0.999	-
	Treatment (Out LSA)	0.762	0.808	>0.999	-
	Wetlandloc	0.762	0.808	>0.999	0.985
	Riparianloc	0.762	0.808	>0.999	0.946
	Year (2022)	0.762	0.808	>0.999	-
White-throated Sparrow	(Intercept)	<0.001	0.632	0.800	-
	Treatment (Out LSA)	<0.001	0.632	0.800	-
	Coniferousloc	<0.001	0.632	0.800	0.033
	log(Deciduous Mixedloc)	<0.001	0.632	0.800	0.189
	MatureForestloc	<0.001	0.632	0.800	0.014
	Year (2022)	<0.001	0.632	0.800	-
White-winged Crossbill	(Intercept)	0.003	<0.001	0.300	-
	Treatment (Out LSA)	0.003	<0.001	0.300	-
	log(Disturbedloc)	0.003	<0.001	0.300	0.003
	log(Wetlandloc)	0.003	<0.001	0.300	0.002
Wilson's Warbler	(Intercept)	0.650	0.984	0.940	-
	Treatment (Out LSA)	0.650	0.984	0.940	-

Species	Coefficient	Residuals test	Zero Inflation test	Outlier test	Residual vs Predictors tests
	Disturbedloc	0.650	0.984	0.940	0.559
	Wetlandloc	0.650	0.984	0.940	0.717
Winter Wren	(Intercept)	0.243	0.912	0.620	-
	Treatment (Out LSA)	0.243	0.912	0.620	-
	Disturbedloc	0.243	0.912	0.620	0.034
	Wetlandloc	0.243	0.912	0.620	0.189
Yellow-bellied Flycatcher	(Intercept)	0.917	0.600	0.960	-
	Treatment (Out LSA)	0.917	0.600	0.960	-
	Deciduous Mixedloc	0.917	0.600	0.960	0.634
	Wetlandloc	0.917	0.600	0.960	0.387
	Year (2022)	0.917	0.600	0.960	-
Yellow-rumped Warbler	(Intercept)	<0.001	0.832	0.880	-
	Treatment (Out LSA)	<0.001	0.832	0.880	-
	Year (2022)	<0.001	0.832	0.880	-

Table 3. Coefficient results from the top density model from point count data for each bird species.

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
Alder Flycatcher	(Intercept)	-2.49	0.38	-6.49	<0.001
	Treatment (Out LSA)	-0.39	0.47	-0.83	0.409
	Coniferousloc	-0.23	0.17	-1.38	0.169
	Deciduous Mixedloc	-0.85	0.23	-3.76	<0.001
	MatureForestloc	-0.68	0.16	-4.34	<0.001
American Robin	(Intercept)	-5.71	1.36	-4.18	<0.001
	Treatment (Out LSA)	-1.08	1.52	-0.71	0.477
	log(Wetlandloc)	0.60	0.18	3.26	0.001
	log(Riparianloc)	-0.19	0.17	-1.12	0.263
Black-backed Woodpecker	(Intercept)	-3.25	0.50	-6.56	<0.001
	Treatment (Out LSA)	-0.09	0.58	-0.15	0.884
	Year (2022)	-1.06	0.55	-1.93	0.054
Blue-headed Vireo	(Intercept)	-2.61	0.34	-7.70	<0.001
	Treatment (Out LSA)	-0.18	0.34	-0.51	0.611
	Deciduous Mixedloc	0.32	0.11	2.83	0.005
	Wetlandloc	-0.21	0.17	-1.27	0.204
	Year (2022)	-1.19	0.31	-3.88	<0.001
Bonaparte's Gull	(Intercept)	-6.77	1.29	-5.23	<0.001
	Treatment (Out LSA)	-0.68	1.28	-0.53	0.595
	log(Disturbedloc)	-2.22	0.71	-3.13	0.002
	Treedloc	-1.82	0.47	-3.87	<0.001
Boreal Chickadee	(Intercept)	-3.25	0.67	-4.88	<0.001
	Treatment (Out LSA)	-1.09	0.55	-2.00	0.046
	Treedloc	0.92	0.46	2.01	0.045
	Distance to Water	-0.70	0.39	-1.80	0.072
	Year (2022)	0.82	0.38	2.14	0.033
Brown Creeper	(Intercept)	-3.76	0.62	-6.05	<0.001
	Treatment (Out LSA)	-1.16	0.84	-1.39	0.165
	Coniferousloc	0.22	0.30	0.75	0.455
	log(Deciduous Mixedloc)	-0.39	0.28	-1.38	0.168
	MatureForestloc	1.41	0.44	3.23	0.001
Canada Jay	(Intercept)	-1.98	0.29	-6.91	<0.001
	Treatment (Out LSA)	-0.20	0.36	-0.56	0.578
	Deciduous Mixedloc	-0.51	0.13	-4.07	<0.001
	Wetlandloc	0.08	0.13	0.59	0.554
Cape May Warbler	(Intercept)	-3.48	0.69	-5.04	<0.001
	Treatment (Out LSA)	0.55	0.72	0.76	0.448
	Disturbedloc	-0.87	0.40	-2.18	0.030
	Wetlandloc	-0.49	0.27	-1.82	0.069
	Year (2022)	-1.49	0.40	-3.70	<0.001
Cedar Waxwing	(Intercept)	-10.15	1.21	-8.36	<0.001
	Treatment (Out LSA)	-1.01	1.00	-1.02	0.308
	log(Deciduous Mixedloc)	0.52	0.41	1.27	0.206

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
	log(Wetlandloc)	-0.55	0.52	-1.06	0.290
	Year (2022)	2.34	0.58	4.03	<0.001
Chipping Sparrow	(Intercept)	-1.33	0.27	-4.95	<0.001
	Treatment (Out LSA)	-1.02	0.36	-2.86	0.004
	Disturbedloc	0.50	0.14	3.55	<0.001
	Wetlandloc	-0.30	0.16	-1.88	0.060
Common Raven	(Intercept)	-6.52	0.47	-13.83	<0.001
	Treatment (Out LSA)	-0.05	0.38	-0.13	0.901
	Coniferousloc	-0.45	0.20	-2.26	0.024
	Deciduous Mixedloc	-0.17	0.18	-0.94	0.348
	MatureForestloc	-0.54	0.17	-3.19	0.001
	Year (2022)	1.00	0.35	2.84	0.005
Common Yellowthroat	(Intercept)	-3.77	0.71	-5.32	<0.001
	Treatment (Out LSA)	0.12	0.76	0.16	0.874
	Coniferousloc	0.13	0.29	0.44	0.657
	Deciduous Mixedloc	-0.86	0.34	-2.57	0.010
	MatureForestloc	-0.91	0.27	-3.34	0.001
	Year (2022)	-1.22	0.59	-2.07	0.038
Connecticut Warbler	(Intercept)	-3.60	0.53	-6.83	<0.001
	Treatment (Out LSA)	-0.97	0.63	-1.53	0.125
	Disturbedloc	0.67	0.28	2.39	0.017
	Wetlandloc	1.04	0.20	5.19	<0.001
Dark-eyed- Junco	(Intercept)	-0.92	0.14	-6.83	<0.001
	Treatment (Out LSA)	0.07	0.17	0.39	0.696
	log(Deciduous Mixedloc)	-0.28	0.08	-3.33	0.001
	log(Wetlandloc)	0.22	0.06	3.48	0.001
	Year (2022)	-0.92	0.13	-7.07	<0.001
Golden-crowned Kinglet	(Intercept)	-1.18	0.20	-5.93	<0.001
	Treatment (Out LSA)	-0.13	0.28	-0.45	0.651
	Coniferousloc	0.29	0.12	2.55	0.011
	log(Deciduous Mixedloc)	0.07	0.11	0.59	0.555
	MatureForestloc	0.26	0.12	2.12	0.034
Greater Yellowlegs	(Intercept)	-7.63	1.18	-6.45	<0.001
	Treatment (Out LSA)	1.57	0.73	2.15	0.031
	Wetlandloc	0.66	0.29	2.30	0.021
	Riparianloc	0.67	0.30	2.24	0.025
Hairy Woodpecker	(Intercept)	-4.66	0.84	-5.57	<0.001
	Treatment (Out LSA)	-0.30	0.77	-0.40	0.693
	Year (2022)	-1.34	0.72	-1.86	0.063
Hermit Thrush	(Intercept)	-3.54	0.23	-15.35	<0.001
	Treatment (Out LSA)	-0.13	0.30	-0.45	0.651
	Treedloc	-0.21	0.12	-1.82	0.069
	Wetlandloc	0.32	0.11	2.96	0.003
Least Flycatcher	(Intercept)	-2.99	0.52	-5.80	<0.001

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
	Treatment (Out LSA)	-0.41	0.59	-0.69	0.489
	Disturbedloc	0.73	0.23	3.16	0.002
	Wetlandloc	-0.45	0.26	-1.75	0.081
Lincoln's Sparrow	(Intercept)	-3.12	0.37	-8.40	<0.001
	Treatment (Out LSA)	-0.44	0.41	-1.07	0.287
	Coniferousloc	-0.26	0.22	-1.22	0.223
	Deciduous Mixedloc	0.04	0.23	0.17	0.864
	MatureForestloc	-0.69	0.17	-3.99	<0.001
Magnolia Warbler	(Intercept)	-1.36	0.24	-5.76	<0.001
	Treatment (Out LSA)	-0.05	0.31	-0.15	0.878
	Coniferousloc	0.05	0.12	0.44	0.657
	Deciduous Mixedloc	0.24	0.08	2.91	0.004
	MatureForestloc	-0.45	0.11	-4.25	<0.001
Mourning Warbler	(Intercept)	-6.55	1.02	-6.45	<0.001
	Treatment (Out LSA)	1.12	0.73	1.52	0.128
	Coniferousloc	0.53	0.35	1.51	0.131
	Deciduous Mixedloc	0.72	0.26	2.72	0.007
	MatureForestloc	-1.39	0.32	-4.31	<0.001
Nashville Warbler	(Intercept)	-0.04	0.10	-0.37	0.711
	Treatment (Out LSA)	-0.14	0.12	-1.10	0.270
	log(Disturbedloc)	0.04	0.05	0.78	0.436
	log(Wetlandloc)	0.21	0.05	4.26	<0.001
	Year (2022)	-0.69	0.10	-7.05	<0.001
Northern Flicker	(Intercept)	-3.82	0.29	-13.05	<0.001
	Treatment (Out LSA)	-0.47	0.35	-1.32	0.187
	Coniferousloc	0.33	0.18	1.88	0.060
	log(Deciduous Mixedloc)	0.32	0.15	2.14	0.032
	MatureForestloc	-0.72	0.16	-4.61	<0.001
Northern Waterthrush	(Intercept)	-10.77	1.52	-7.06	<0.001
	Treatment (Out LSA)	0.36	1.50	0.24	0.812
Olive-sided Flycatcher	(Intercept)	-5.48	0.51	-10.85	<0.001
	Treatment (Out LSA)	-0.86	0.55	-1.57	0.116
	log(Disturbedloc)	0.73	0.25	2.89	0.004
	log(Wetlandloc)	0.10	0.28	0.37	0.712
	Year (2022)	-1.15	0.36	-3.17	0.002
Orange-crowned Warbler	(Intercept)	-3.39	0.59	-5.73	<0.001
	Treatment (Out LSA)	0.49	0.63	0.77	0.443
	Deciduous Mixedloc	-0.94	0.44	-2.14	0.032
	Wetlandloc	0.01	0.19	0.06	0.952
	Year (2022)	-1.80	0.80	-2.26	0.024
Ovenbird	(Intercept)	-6.94	1.30	-5.34	<0.001
	Treatment (Out LSA)	0.88	1.19	0.74	0.459
	Coniferousloc	-0.38	0.38	-1.00	0.317
	log(Deciduous Mixedloc)	0.62	0.28	2.20	0.028

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
	MatureForestloc	-0.50	0.32	-1.59	0.111
Palm Warbler	(Intercept)	-1.89	0.43	-4.36	<0.001
	Treatment (Out LSA)	-0.03	0.53	-0.05	0.962
	Coniferousloc	-0.57	0.15	-3.75	<0.001
	log(Deciduous Mixedloc)	-0.61	0.16	-3.93	<0.001
	MatureForestloc	-0.34	0.13	-2.57	0.010
	Year (2022)	-1.03	0.25	-4.09	<0.001
Philadelphia Vireo	(Intercept)	-3.82	0.66	-5.78	<0.001
	Treatment (Out LSA)	0.64	0.71	0.90	0.367
	Year (2022)	-1.53	0.83	-1.83	0.067
Pine Siskin	(Intercept)	-0.56	0.24	-2.36	0.018
	Treatment (Out LSA)	-0.31	0.27	-1.16	0.245
	Coniferousloc	0.30	0.15	1.96	0.050
	Deciduous Mixedloc	0.49	0.12	4.18	<0.001
	MatureForestloc	0.25	0.17	1.51	0.132
	Year (2022)	-1.09	0.29	-3.75	<0.001
Red-breasted Nuthatch	(Intercept)	-2.43	0.34	-7.23	<0.001
	Treatment (Out LSA)	-0.70	0.44	-1.59	0.111
	Deciduous Mixedloc	0.21	0.10	2.01	0.045
	Wetlandloc	-0.35	0.16	-2.26	0.024
	Year (2022)	-1.19	0.34	-3.53	<0.001
Red-eyed Vireo	(Intercept)	-4.39	0.53	-8.29	<0.001
	Treatment (Out LSA)	0.55	0.59	0.93	0.354
	Treedloc	-0.47	0.19	-2.53	0.011
	Wetlandloc	-0.40	0.24	-1.68	0.093
Ruby-crowned Kinglet	(Intercept)	-0.66	0.13	-5.18	<0.001
	Treatment (Out LSA)	-0.13	0.16	-0.81	0.417
	log(Deciduous Mixedloc)	-0.07	0.05	-1.34	0.179
	log(Wetlandloc)	0.16	0.05	3.41	0.001
	Year (2022)	-0.57	0.10	-5.89	<0.001
Sandhill Crane	(Intercept)	-15.17	1.96	-7.73	<0.001
	Treatment (Out LSA)	-4.52	2.11	-2.14	0.032
	Year (2022)	-11.51	0.96	-11.98	<0.001
Swainson's Thrush	(Intercept)	-4.70	0.43	-11.04	<0.001
	Treatment (Out LSA)	0.10	0.52	0.20	0.845
	Treedloc	0.46	0.19	2.41	0.016
	Distance to Water	-0.67	0.22	-3.00	0.003
Swamp Sparrow	(Intercept)	-4.05	0.50	-8.04	<0.001
	Treatment (Out LSA)	-0.02	0.54	-0.03	0.975
	Treedloc	-0.12	0.23	-0.52	0.607
	Distance to Water	-2.10	0.39	-5.42	<0.001
Tennessee Warbler	(Intercept)	-1.70	0.21	-7.94	<0.001
	Treatment (Out LSA)	0.13	0.24	0.54	0.591
	Wetlandloc	0.14	0.10	1.42	0.155

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
	Riparianloc	0.29	0.09	3.20	0.001
	Year (2022)	-1.33	0.24	-5.48	<0.001
White-throated Sparrow	(Intercept)	-1.44	0.25	-5.69	<0.001
	Treatment (Out LSA)	0.15	0.32	0.48	0.634
	Coniferousloc	-0.22	0.09	-2.43	0.015
	log(Deciduous Mixedloc)	-0.02	0.07	-0.25	0.807
	MatureForestloc	-0.24	0.08	-2.91	0.004
	Year (2022)	-0.69	0.14	-4.80	<0.001
White-winged Crossbill	(Intercept)	-7.36	1.23	-6.00	<0.001
	Treatment (Out LSA)	0.13	1.02	0.13	0.901
	log(Disturbedloc)	-0.49	0.61	-0.79	0.427
	log(Wetlandloc)	-1.23	0.48	-2.58	0.010
Wilson's Warbler	(Intercept)	-2.91	0.52	-5.64	<0.001
	Treatment (Out LSA)	-0.05	0.47	-0.10	0.923
	Disturbedloc	1.02	0.21	4.83	<0.001
	Wetlandloc	0.26	0.24	1.10	0.273
Winter Wren	(Intercept)	-2.54	0.29	-8.88	<0.001
	Treatment (Out LSA)	-0.74	0.39	-1.93	0.054
	Disturbedloc	0.24	0.14	1.77	0.076
	Wetlandloc	-0.13	0.13	-1.00	0.316
Yellow-bellied Flycatcher	(Intercept)	-1.22	0.23	-5.33	<0.001
	Treatment (Out LSA)	-0.08	0.29	-0.27	0.785
	Deciduous Mixedloc	-0.33	0.16	-2.10	0.035
	Wetlandloc	0.25	0.09	2.85	0.004
	Year (2022)	-0.41	0.18	-2.24	0.025
Yellow-rumped Warbler	(Intercept)	-0.57	0.20	-2.90	0.004
	Treatment (Out LSA)	-0.30	0.24	-1.22	0.221
	Year (2022)	-1.23	0.19	-6.49	<0.001

Table 4. Generalized linear models compared for each species to model acoustic activity from avian ARU survey data. See section 2.4.7 for a full description of the modelling procedure. Briefly, model building followed a six-step hierarchical procedure. In each step, a suite of models were compared to test the importance of a specific parameter or variable type, described here by the "Test" column. The variable "days to nearest full moon" was only included in the "Time" step (Step 4) for nocturnal species. The final best model for the species is indicated by the "final" descriptor in the "Test" column and is bolded. The location ID of the ARU (Point) was included as a random intercept in all models. The best-fitting model for each species at each model selection step was selected based on its AICc and delta AICc values. Models are sorted by their AICc values.

Species	Model	Family	ZI	Test	AICc	Delta AICc
Alder Flycatcher	1 + (1 | Point)	nbinom1	~0	Family	16199.7	0.0
	1 + (1 | Point)	poisson	~0		252893.6	236693.9
	1 + (1 | Point)	nbinom1	~1	ZI	15768.8	0.0
	1 + (1 | Point)	nbinom1	~0		16199.7	430.9
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1	Weather	15750.8	0.0
	Treatment + Wind + (1 | Point)	nbinom1	~1		15760.2	9.4
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		15766.2	15.4
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		15766.8	16.0
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		15767.1	16.3
	Treatment + Temperature + (1 | Point)	nbinom1	~1		15767.9	17.1
	Treatment + Humidity + (1 | Point)	nbinom1	~1		15768.8	18.0
	Treatment + (1 | Point)	nbinom1	~1		15770.7	19.9
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		15771.2	20.4
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		15771.5	20.7
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	15407.4	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		15440.0	32.6
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		15716.5	309.1
	Treatment + Week + (1 | Point)	nbinom1	~1		15741.3	333.9
	Treatment + Year + (1 | Point)	nbinom1	~1		15750.9	343.5
	Treatment + (1 | Point)	nbinom1	~1		15770.7	363.3
	Treatment + Easting + (1 | Point)	nbinom1	~1	Location	15766.9	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		15768.9	2.0
	Treatment + (1 | Point)	nbinom1	~1		15770.7	3.8
	Treatment + Northing + (1 | Point)	nbinom1	~1		15770.9	4.0
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1	Habitat	15762.5	0.0
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		15763.8	1.3
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		15767.9	5.4
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		15768.6	6.1
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		15768.8	6.3

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		15768.9	6.4
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		15769.0	6.5
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		15769.4	6.9
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		15769.4	7.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		15770.4	8.0
	Treatment + (1 | Point)	nbinom1	~1		15770.7	8.3
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		15772.2	9.8
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		15773.5	11.1
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		15773.7	11.3
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		15774.1	11.7
	Treatment + Temperature + Wind + Week +Week^2 + Year + Easting + Treedloc + log(Distance to Water) + (1 | Point)	**nbinom1**	**~1**	**Final**	**15393.6**	
American Crow	1 + (1 | Point)	nbinom1	~0	Family	2399.9	0.0
	1 + (1 | Point)	poisson	~0		4550.1	2150.2
	1 + (1 | Point)	nbinom1	~0	ZI	2399.9	0.0
	1 + (1 | Point)	nbinom1	~1		2401.9	2.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0	Weather	2359.8	0.0
	Treatment + Wind + (1 | Point)	nbinom1	~0		2367.1	7.3
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		2375.6	15.8
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		2376.4	16.6
	Treatment + Temperature + (1 | Point)	nbinom1	~0		2380.3	20.5
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		2382.3	22.5
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		2392.2	32.4
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		2393.3	33.5
	Treatment + (1 | Point)	nbinom1	~0		2399.8	40.0
	Treatment + Humidity + (1 | Point)	nbinom1	~0		2400.9	41.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	2388.7	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		2390.2	1.5
	Treatment + Week + (1 | Point)	nbinom1	~0		2398.8	10.2
	Treatment + (1 | Point)	nbinom1	~0		2399.8	11.2
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		2400.8	12.2
	Treatment + Year + (1 | Point)	nbinom1	~0		2401.8	13.1
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0	Location	2398.4	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~0		2399.0	0.7
	Treatment + (1 | Point)	nbinom1	~0		2399.8	1.5
	Treatment + Easting + (1 | Point)	nbinom1	~0		2401.8	3.4

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0	Habitat	2380.2	0.0
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		2380.6	0.4
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2381.2	1.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2381.6	1.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		2390.9	10.7
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		2393.0	12.9
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2394.8	14.7
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2395.8	15.7
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		2397.1	16.9
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		2397.1	17.0
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2399.2	19.0
	Treatment + (1 | Point)	nbinom1	~0		2399.8	19.7
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2400.3	20.1
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		2404.1	24.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		2404.2	24.0
	Treatment + Temperature + Wind + Week +Week^2 + Disturbedloc + Treedloc + (1 | Point)	**nbinom1**	**~0**	**Final**	**2337.4**	
American Kestrel	1 + (1 | Point)	nbinom1	~0	Family	492.7	0.0
	1 + (1 | Point)	poisson	~0		1443.8	951.0
	1 + (1 | Point)	nbinom1	~1	ZI	490.7	0.0
	1 + (1 | Point)	nbinom1	~0		492.7	2.1
	Treatment + Precipitation + (1 | Point)	nbinom1	~1	Weather	490.2	0.0
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		491.2	1.0
	Treatment + Humidity + (1 | Point)	nbinom1	~1		491.3	1.2
	Treatment + (1 | Point)	nbinom1	~1		491.4	1.2
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		492.1	2.0
	Treatment + Wind + (1 | Point)	nbinom1	~1		492.8	2.7
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		493.0	2.9
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		493.1	3.0
	Treatment + Temperature + (1 | Point)	nbinom1	~1		493.4	3.2
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		494.9	4.7
	Treatment + (1 | Point)	nbinom1	~1	Time	491.4	0.0
	Treatment + Year + (1 | Point)	nbinom1	~1		492.5	1.2
	Treatment + Week + (1 | Point)	nbinom1	~1		493.4	2.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		493.5	2.1
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		494.5	3.2

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		495.0	3.6
	Treatment + (1 | Point)	nbinom1	~1	Location	491.4	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~1		493.2	1.9
	Treatment + Northing + (1 | Point)	nbinom1	~1		493.4	2.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		495.1	3.7
	Treatment + (1 | Point)	nbinom1	~1	Habitat	491.4	0.0
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		494.5	3.2
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		494.6	3.2
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		494.8	3.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		494.8	3.5
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		495.0	3.7
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		495.1	3.7
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		495.1	3.7
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		495.1	3.8
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		495.1	3.8
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		495.2	3.9
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		495.3	4.0
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		495.4	4.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		496.9	5.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		497.0	5.6
	Treatment + +(1 | Point)	**nbinom1**	**~1**	**Final**	**491.4**	
American Robin	1 + (1 | Point)	nbinom1	~0	Family	1806.5	0.0
	1 + (1 | Point)	poisson	~0		2919.8	1113.4
	1 + (1 | Point)	nbinom1	~0	ZI	1806.5	0.0
	1 + (1 | Point)	nbinom1	~1		1806.6	0.2
	Treatment + Precipitation + (1 | Point)	nbinom1	~0	Weather	1801.5	0.0
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		1802.7	1.1
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		1802.8	1.3
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		1803.9	2.4
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		1804.0	2.4
	Treatment + Humidity + (1 | Point)	nbinom1	~0		1804.3	2.8
	Treatment + (1 | Point)	nbinom1	~0		1804.7	3.2
	Treatment + Temperature + (1 | Point)	nbinom1	~0		1805.4	3.8
	Treatment + Wind + (1 | Point)	nbinom1	~0		1806.7	5.2
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		1807.2	5.7

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + (1 | Point)	nbinom1	~0	Time	1804.7	0.0
	Treatment + Week + (1 | Point)	nbinom1	~0		1806.2	1.5
	Treatment + Year + (1 | Point)	nbinom1	~0		1806.7	2.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		1808.1	3.4
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		1808.1	3.4
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		1810.1	5.4
	Treatment + (1 | Point)	nbinom1	~0	Location	1804.7	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		1804.9	0.2
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		1805.4	0.6
	Treatment + Northing + (1 | Point)	nbinom1	~0		1806.7	2.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0	Habitat	1781.9	0.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1783.0	1.1
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		1783.7	1.8
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		1785.7	3.8
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		1787.0	5.1
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		1788.3	6.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		1789.0	7.1
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		1791.4	9.5
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		1791.8	9.9
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1792.0	10.1
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		1792.2	10.3
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		1792.5	10.6
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		1796.7	14.8
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1797.7	15.8
	Treatment + (1 | Point)	nbinom1	~0		1804.7	22.8
	Treatment + Precipitation + Disturbedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~0**	**Final**	**1778.5**	
Bay-breasted Warbler	1 + (1 | Point)	nbinom1	~0	Family	3993.3	0.0
	1 + (1 | Point)	poisson	~0		16953.0	12959.7
	1 + (1 | Point)	nbinom1	~1	ZI	3992.1	0.0
	1 + (1 | Point)	nbinom1	~0		3993.3	1.2
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0	Weather	3968.7	0.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		3969.0	0.3
	Treatment + Wind + (1 | Point)	nbinom1	~0		3977.6	8.9
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		3978.6	10.0
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		3980.2	11.5

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		3980.5	11.8
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		3991.1	22.4
	Treatment + Temperature + (1 | Point)	nbinom1	~0		3992.5	23.8
	Treatment + Humidity + (1 | Point)	nbinom1	~0		3992.5	23.8
	Treatment + (1 | Point)	nbinom1	~0		3995.3	26.6
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		3987.5	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		3989.8	2.3
	Treatment + Year + (1 | Point)	nbinom1	~0	Time	3992.2	4.8
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		3992.4	4.9
	Treatment + (1 | Point)	nbinom1	~0		3995.3	7.9
	Treatment + Week + (1 | Point)	nbinom1	~0		3996.1	8.6
	Treatment + (1 | Point)	nbinom1	~0		3995.3	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		3995.4	0.1
	Treatment + Northing + (1 | Point)	nbinom1	~0	Location	3995.8	0.5
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		3997.2	1.8
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3983.2	0.0
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		3985.0	1.8
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		3985.1	2.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3985.5	2.4
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		3990.6	7.5
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		3991.0	7.8
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3992.3	9.2
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0	Habitat	3993.3	10.2
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3993.8	10.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		3993.9	10.8
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		3994.8	11.6
	Treatment + (1 | Point)	nbinom1	~0		3995.3	12.2
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		3995.7	12.5
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3997.4	14.2
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3998.4	15.3
	Treatment + log(Precipitation) + Week +Week^2 + Year + Disturbedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~0**	**Final**	**3949.1**	
Belted Kingfisher	1 + (1 | Point)	nbinom1	~0	Family	2891.1	0.0
	1 + (1 | Point)	poisson	~0		11233.0	8341.9
	1 + (1 | Point)	nbinom1	~1	ZI	2885.9	0.0
	1 + (1 | Point)	nbinom1	~0		2891.1	5.2

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1	Weather	2840.4	0.0
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		2841.7	1.3
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		2843.3	3.0
	Treatment + Temperature + (1 | Point)	nbinom1	~1		2845.0	4.7
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		2845.7	5.3
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		2875.1	34.7
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		2878.4	38.0
	Treatment + Wind + (1 | Point)	nbinom1	~1		2879.1	38.7
	Treatment + (1 | Point)	nbinom1	~1		2885.3	44.9
	Treatment + Humidity + (1 | Point)	nbinom1	~1		2885.5	45.2
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	2810.0	0.0
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		2812.4	2.3
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		2818.6	8.6
	Treatment + Week + (1 | Point)	nbinom1	~1		2819.6	9.6
	Treatment + Year + (1 | Point)	nbinom1	~1		2881.4	71.4
	Treatment + (1 | Point)	nbinom1	~1		2885.3	75.2
	Treatment + Easting + (1 | Point)	nbinom1	~1	Location	2885.0	0.0
	Treatment + (1 | Point)	nbinom1	~1		2885.3	0.3
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		2885.8	0.8
	Treatment + Northing + (1 | Point)	nbinom1	~1		2887.2	2.2
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1	Habitat	2875.8	0.0
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		2877.0	1.2
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		2879.2	3.5
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		2879.5	3.7
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2879.9	4.1
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		2880.5	4.7
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		2881.0	5.2
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		2881.3	5.5
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2881.8	6.1
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2881.9	6.1
	Treatment + (1 | Point)	nbinom1	~1		2885.3	9.5
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2885.9	10.2
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		2887.0	11.3
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		2887.2	11.4
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2887.3	11.5

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Temperature + Precipitation + Week +Week^2 + Year + Disturbedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**2783.5**	
Black-and-white Warbler	1 + (1 | Point)	nbinom1	~0	Family	2742.1	0.0
	1 + (1 | Point)	poisson	~0		4867.9	2125.8
	1 + (1 | Point)	nbinom1	~1	ZI	2736.9	0.0
	1 + (1 | Point)	nbinom1	~0		2742.1	5.2
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1	Weather	2697.0	0.0
	Treatment + Wind + (1 | Point)	nbinom1	~1		2706.1	9.2
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		2710.4	13.4
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		2715.4	18.4
	Treatment + Temperature + (1 | Point)	nbinom1	~1		2715.5	18.5
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		2717.4	20.4
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		2724.9	27.9
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		2731.6	34.6
	Treatment + (1 | Point)	nbinom1	~1		2736.4	39.4
	Treatment + Humidity + (1 | Point)	nbinom1	~1		2737.9	41.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1	Time	2693.9	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		2695.3	1.4
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		2721.7	27.9
	Treatment + Week + (1 | Point)	nbinom1	~1		2721.8	27.9
	Treatment + Year + (1 | Point)	nbinom1	~1		2734.5	40.7
	Treatment + (1 | Point)	nbinom1	~1		2736.4	42.6
	Treatment + (1 | Point)	nbinom1	~1	Location	2736.4	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~1		2737.9	1.5
	Treatment + Easting + (1 | Point)	nbinom1	~1		2738.3	1.9
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		2739.9	3.5
	Treatment + (1 | Point)	nbinom1	~1	Habitat	2736.4	0.0
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2738.9	2.5
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2739.1	2.6
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		2739.5	3.1
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2739.7	3.3
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		2739.8	3.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		2739.9	3.4
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2739.9	3.5
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		2740.0	3.6
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		2740.2	3.7

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2740.2	3.7
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		2740.3	3.8
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2740.3	3.8
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		2740.3	3.9
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		2740.7	4.3
	Treatment + Temperature + Wind + Week +Week^2 + (1 | Point)	**nbinom1**	**~1**	**Final**	**2655.2**	
Blackburnian Warbler	1 + (1 | Point)	nbinom1	~0	Family	2444.8	0.0
	1 + (1 | Point)	poisson	~0		3389.4	944.6
	1 + (1 | Point)	nbinom1	~1	ZI	2437.5	0.0
	1 + (1 | Point)	nbinom1	~0		2444.8	7.3
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1	Weather	2423.9	0.0
	Treatment + Wind + (1 | Point)	nbinom1	~1		2427.0	3.1
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		2435.1	11.2
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		2435.8	11.9
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		2436.5	12.7
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		2437.0	13.2
	Treatment + (1 | Point)	nbinom1	~1		2439.2	15.3
	Treatment + Temperature + (1 | Point)	nbinom1	~1		2439.9	16.0
	Treatment + Humidity + (1 | Point)	nbinom1	~1		2441.0	17.2
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		2441.9	18.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1	Time	2333.0	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		2334.3	1.3
	Treatment + Year + (1 | Point)	nbinom1	~1		2437.8	104.8
	Treatment + (1 | Point)	nbinom1	~1		2439.2	106.2
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		2439.3	106.3
	Treatment + Week + (1 | Point)	nbinom1	~1		2440.4	107.4
	Treatment + Easting + (1 | Point)	nbinom1	~1	Location	2436.8	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		2438.6	1.9
	Treatment + (1 | Point)	nbinom1	~1		2439.2	2.4
	Treatment + Northing + (1 | Point)	nbinom1	~1		2440.3	3.5
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1	Habitat	2421.5	0.0
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		2424.0	2.6
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2424.6	3.2
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2424.7	3.3
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2427.9	6.4

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2428.5	7.0
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		2433.8	12.3
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		2433.9	12.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		2435.5	14.1
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		2435.5	14.1
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2436.3	14.9
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2438.8	17.3
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		2439.0	17.6
	Treatment + (1 | Point)	nbinom1	~1		2439.2	17.7
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		2440.0	18.5
	Treatment + Temperature + Wind + Week +Week^2 + Easting + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**2294.3**	
Blue-headed Vireo	1 + (1 | Point)	nbinom1	~0	Family	5316.1	0.0
	1 + (1 | Point)	poisson	~0		42294.5	36978.4
	1 + (1 | Point)	nbinom1	~1	ZI	5283.0	0.0
	1 + (1 | Point)	nbinom1	~0		5316.1	33.1
	Treatment + Wind + (1 | Point)	nbinom1	~1	Weather	5255.1	0.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		5257.1	2.0
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		5273.0	17.9
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		5273.4	18.4
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		5275.0	19.9
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		5275.2	20.2
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		5281.2	26.2
	Treatment + Temperature + (1 | Point)	nbinom1	~1		5283.0	27.9
	Treatment + (1 | Point)	nbinom1	~1		5284.7	29.7
	Treatment + Humidity + (1 | Point)	nbinom1	~1		5284.9	29.8
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1	Time	5243.4	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		5245.1	1.6
	Treatment + (1 | Point)	nbinom1	~1		5284.7	41.3
	Treatment + Year + (1 | Point)	nbinom1	~1		5286.7	43.3
	Treatment + Week + (1 | Point)	nbinom1	~1		5286.7	43.3
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		5288.7	45.3
	Treatment + (1 | Point)	nbinom1	~1	Location	5284.7	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~1		5285.5	0.8
	Treatment + Northing + (1 | Point)	nbinom1	~1		5286.5	1.8

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		5287.5	2.7
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		5277.6	0.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		5280.2	2.6
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		5281.1	3.5
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		5281.7	4.1
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		5281.7	4.1
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		5282.4	4.8
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		5282.9	5.3
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1	Habitat	5283.4	5.8
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		5283.5	5.9
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		5284.0	6.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		5284.0	6.5
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		5284.3	6.7
	Treatment + (1 | Point)	nbinom1	~1		5284.7	7.2
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		5286.4	8.8
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		5286.6	9.1
	Treatment + Wind + Week +Week^2 + Disturbedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**5195.4**	
Bonaparte's Gull	1 + (1 | Point)	nbinom1	~0	Family	5749.2	0.0
	1 + (1 | Point)	poisson	~0		38374.0	32624.8
	1 + (1 | Point)	nbinom1	~1	ZI	5748.0	0.0
	1 + (1 | Point)	nbinom1	~0		5749.2	1.2
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		5692.2	0.0
	Treatment + Wind + (1 | Point)	nbinom1	~0		5696.0	3.8
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		5735.0	42.9
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		5736.9	44.8
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		5738.8	46.7
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0	Weather	5740.8	48.6
	Treatment + Humidity + (1 | Point)	nbinom1	~0		5746.7	54.5
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		5748.5	56.3
	Treatment + (1 | Point)	nbinom1	~0		5751.2	59.0
	Treatment + Temperature + (1 | Point)	nbinom1	~0		5753.1	61.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		5718.8	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0	Time	5719.1	0.3
	Treatment + Week + (1 | Point)	nbinom1	~0		5746.9	28.1
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		5747.9	29.1

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + (1 | Point)	nbinom1	~0		5751.2	32.4
	Treatment + Year + (1 | Point)	nbinom1	~0		5752.6	33.8
	Treatment + (1 | Point)	nbinom1	~0	Location	5751.2	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		5751.8	0.6
	Treatment + Northing + (1 | Point)	nbinom1	~0		5752.3	1.1
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		5753.7	2.5
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0	Habitat	5743.0	0.0
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		5743.8	0.8
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		5745.5	2.5
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		5745.8	2.8
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		5745.8	2.8
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		5746.2	3.2
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		5746.3	3.4
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		5746.4	3.4
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		5750.9	8.0
	Treatment + (1 | Point)	nbinom1	~0		5751.2	8.2
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		5751.2	8.3
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		5753.4	10.4
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		5753.6	10.7
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		5754.6	11.7
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		5754.9	12.0
	Treatment + Temperature + Wind + Week +Week^2 + Deciduous Mixedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~0**	**Final**	**5631.2**	
Boreal Chickadee	1 + (1 | Point)	nbinom1	~0	Family	3282.4	0.0
	1 + (1 | Point)	poisson	~0		10023.0	6740.5
	1 + (1 | Point)	nbinom1	~0	ZI	3282.4	0.0
	1 + (1 | Point)	nbinom1	~1		3283.1	0.6
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0	Weather	3239.6	0.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		3241.8	2.2
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		3248.1	8.5
	Treatment + Temperature + (1 | Point)	nbinom1	~0		3250.9	11.3
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		3252.7	13.1
	Treatment + Wind + (1 | Point)	nbinom1	~0		3260.0	20.4
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		3266.5	26.9
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		3274.6	35.0
	Treatment + (1 | Point)	nbinom1	~0		3282.2	42.6

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Humidity + (1 | Point)	nbinom1	~0		3284.1	44.5
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	3180.8	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		3181.3	0.5
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		3263.3	82.5
	Treatment + Week + (1 | Point)	nbinom1	~0		3267.8	87.0
	Treatment + Year + (1 | Point)	nbinom1	~0		3279.4	98.6
	Treatment + (1 | Point)	nbinom1	~0		3282.2	101.4
	Treatment + Northing + (1 | Point)	nbinom1	~0	Location	3282.2	0.0
	Treatment + (1 | Point)	nbinom1	~0		3282.2	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		3283.5	1.4
	Treatment + Easting + (1 | Point)	nbinom1	~0		3284.1	2.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0	Habitat	3263.9	0.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3266.5	2.6
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		3268.5	4.6
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		3268.7	4.7
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		3271.8	7.9
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		3272.6	8.6
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3280.5	16.6
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		3281.3	17.3
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3281.3	17.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		3281.4	17.5
	Treatment + (1 | Point)	nbinom1	~0		3282.2	18.2
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		3283.9	19.9
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3285.1	21.2
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		3285.2	21.3
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3286.0	22.0
	Treatment + Temperature + Wind + Week +Week^2 + Disturbedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~0**	**Final**	**3141.0**	
Canada Goose	1 + (1 | Point)	nbinom1	~0	Family	3376.2	0.0
	1 + (1 | Point)	poisson	~0		17548.5	14172.3
	1 + (1 | Point)	nbinom1	~1	ZI	3360.6	0.0
	1 + (1 | Point)	nbinom1	~0		3376.2	15.7
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1	Weather	3250.8	0.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		3253.0	2.2
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		3256.1	5.3
	Treatment + Temperature + (1 | Point)	nbinom1	~1		3261.6	10.8

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		3262.8	12.0
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		3342.6	91.7
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		3342.8	91.9
	Treatment + Wind + (1 | Point)	nbinom1	~1		3345.5	94.7
	Treatment + (1 | Point)	nbinom1	~1		3360.5	109.7
	Treatment + Humidity + (1 | Point)	nbinom1	~1		3361.7	110.9
	Treatment + Week + (1 | Point)	nbinom1	~1	Time	3192.1	0.0
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		3193.5	1.4
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		3194.0	1.9
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		3195.3	3.2
	Treatment + (1 | Point)	nbinom1	~1		3360.5	168.4
	Treatment + Year + (1 | Point)	nbinom1	~1		3362.4	170.3
	Treatment + (1 | Point)	nbinom1	~1	Location	3360.5	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~1		3362.4	2.0
	Treatment + Northing + (1 | Point)	nbinom1	~1		3362.5	2.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		3364.4	3.9
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1	Habitat	3337.7	0.0
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		3338.7	1.0
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3340.2	2.4
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3341.1	3.3
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3341.1	3.3
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3344.7	6.9
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3344.7	7.0
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3345.2	7.5
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		3355.2	17.5
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		3358.5	20.8
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		3358.8	21.1
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		3358.8	21.1
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		3359.5	21.8
	Treatment + (1 | Point)	nbinom1	~1		3360.5	22.7
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		3361.1	23.4
	Treatment + Temperature + Precipitation + Week + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	**nbinom1**	**~1**	**Final**	**3157.7**	
Canada Jay	1 + (1 | Point)	nbinom1	~0	Family	2597.8	0.0
	1 + (1 | Point)	poisson	~0		4347.9	1750.1
	1 + (1 | Point)	nbinom1	~0	ZI	2597.8	0.0

Species	Model	Family	ZI	Test	AICc	Delta AICc
	1 + (1 | Point)	nbinom1	~1		2599.9	2.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0	Weather	2582.4	0.0
	Treatment + Wind + (1 | Point)	nbinom1	~0		2584.3	1.9
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		2593.1	10.7
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		2593.3	10.9
	Treatment + (1 | Point)	nbinom1	~0		2595.1	12.6
	Treatment + Humidity + (1 | Point)	nbinom1	~0		2595.1	12.7
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		2595.4	13.0
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		2596.0	13.5
	Treatment + Temperature + (1 | Point)	nbinom1	~0		2596.2	13.8
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		2596.6	14.2
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	2592.8	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		2593.7	0.9
	Treatment + (1 | Point)	nbinom1	~0		2595.1	2.3
	Treatment + Week + (1 | Point)	nbinom1	~0		2596.1	3.3
	Treatment + Year + (1 | Point)	nbinom1	~0		2596.3	3.5
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		2597.5	4.7
	Treatment + Northing + (1 | Point)	nbinom1	~0	Location	2594.1	0.0
	Treatment + (1 | Point)	nbinom1	~0		2595.1	1.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		2595.5	1.5
	Treatment + Easting + (1 | Point)	nbinom1	~0		2596.9	2.8
	Treatment + (1 | Point)	nbinom1	~0	Habitat	2595.1	0.0
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		2595.6	0.5
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		2596.8	1.7
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2596.9	1.8
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		2597.2	2.2
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2597.5	2.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		2597.5	2.4
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2598.0	2.9
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		2598.3	3.2
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2598.3	3.2
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		2598.3	3.2
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		2598.6	3.6
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2598.7	3.7
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		2598.9	3.8

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2599.0	4.0
	Treatment + Wind + Week +Week^2 + (1 | Point)	**nbinom1**	**~0**	**Final**	**2581.3**	
Cedar Waxwing	1 + (1 | Point)	nbinom1	~0	Family	11720.9	0.0
	1 + (1 | Point)	poisson	~0		37170.5	25449.6
	1 + (1 | Point)	nbinom1	~1	ZI	11706.0	0.0
	1 + (1 | Point)	nbinom1	~0		11720.9	14.9
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1	Weather	11546.0	0.0
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		11565.7	19.7
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		11590.1	44.1
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		11627.3	81.3
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		11649.0	103.0
	Treatment + Temperature + (1 | Point)	nbinom1	~1		11650.9	104.9
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		11652.7	106.7
	Treatment + Wind + (1 | Point)	nbinom1	~1		11680.9	134.9
	Treatment + (1 | Point)	nbinom1	~1		11707.2	161.2
	Treatment + Humidity + (1 | Point)	nbinom1	~1		11708.3	162.3
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	11321.2	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		11326.1	4.9
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		11364.6	43.4
	Treatment + Week + (1 | Point)	nbinom1	~1		11370.3	49.1
	Treatment + (1 | Point)	nbinom1	~1		11707.2	386.0
	Treatment + Year + (1 | Point)	nbinom1	~1		11709.1	387.9
	Treatment + Easting + (1 | Point)	nbinom1	~1	Location	11703.9	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~1		11704.6	0.7
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		11704.9	1.0
	Treatment + (1 | Point)	nbinom1	~1		11707.2	3.2
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1	Habitat	11703.6	0.0
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		11704.1	0.5
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		11706.2	2.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		11706.2	2.6
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		11706.2	2.6
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		11706.3	2.7
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		11706.4	2.8
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		11706.8	3.2
	Treatment + (1 | Point)	nbinom1	~1		11707.2	3.6

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		11707.6	4.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		11707.6	4.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		11708.0	4.4
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		11708.1	4.5
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		11710.4	6.8
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		11710.4	6.8
	Treatment + Temperature + log(Precipitation) + Week +Week^2 + Year + Easting + Deciduous Mixedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**11221.8**	
Chipping Sparrow	1 + (1 | Point)	nbinom1	~0	Family	19575.1	0.0
	1 + (1 | Point)	poisson	~0		115692.0	96116.9
	1 + (1 | Point)	nbinom1	~1	ZI	19530.3	0.0
	1 + (1 | Point)	nbinom1	~0		19575.1	44.9
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1	Weather	19423.4	0.0
	Treatment + Wind + (1 | Point)	nbinom1	~1		19426.9	3.5
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		19429.7	6.3
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		19430.0	6.5
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		19452.9	29.5
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		19453.7	30.3
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		19490.3	66.9
	Treatment + Humidity + (1 | Point)	nbinom1	~1		19490.9	67.5
	Treatment + (1 | Point)	nbinom1	~1		19531.4	108.0
	Treatment + Temperature + (1 | Point)	nbinom1	~1		19533.1	109.7
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	19427.7	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		19441.0	13.3
	Treatment + Year + (1 | Point)	nbinom1	~1		19522.6	94.9
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		19524.3	96.6
	Treatment + (1 | Point)	nbinom1	~1		19531.4	103.7
	Treatment + Week + (1 | Point)	nbinom1	~1		19532.9	105.1
	Treatment + (1 | Point)	nbinom1	~1	Location	19531.4	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~1		19531.9	0.5
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		19533.1	1.6
	Treatment + Northing + (1 | Point)	nbinom1	~1		19533.4	2.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1	Habitat	19528.8	0.0
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		19529.2	0.5
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		19529.3	0.6

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		19529.6	0.8
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		19529.9	1.1
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		19529.9	1.1
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		19530.2	1.4
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		19530.4	1.6
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		19530.5	1.7
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		19530.6	1.9
	Treatment + (1 | Point)	nbinom1	~1		19531.4	2.7
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		19534.0	5.2
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		19534.0	5.3
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		19535.0	6.2
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		19535.0	6.3
	Treatment + Temperature + Wind + Week +Week^2 + Year + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	**nbinom1**	**~1**	**Final**	**19320.1**	
Common Loon	1 + (1 | Point)	nbinom1	~0	Family	13217.7	0.0
	1 + (1 | Point)	poisson	~0		33559.9	20342.1
	1 + (1 | Point)	nbinom1	~1	ZI	13200.5	0.0
	1 + (1 | Point)	nbinom1	~0		13217.7	17.2
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1	Weather	13173.0	0.0
	Treatment + Humidity + (1 | Point)	nbinom1	~1		13177.8	4.8
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		13178.9	5.9
	Treatment + Wind + (1 | Point)	nbinom1	~1		13180.1	7.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		13190.2	17.1
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		13194.2	21.1
	Treatment + Temperature + (1 | Point)	nbinom1	~1		13194.3	21.2
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		13194.7	21.6
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		13199.9	26.9
	Treatment + (1 | Point)	nbinom1	~1		13199.9	26.9
	Treatment + Week +Week2 + Days to Full Moon + (1 | Point)	nbinom1	~1	Time	13169.6	0.0
	Treatment + Week +Week2 + Year + Days to Full Moon + (1 | Point)	nbinom1	~1		13169.8	0.2
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		13181.8	12.2
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		13182.3	12.6
	Treatment + Week + Days to Full Moon + (1 | Point)	nbinom1	~1		13184.7	15.0
	Treatment + Week + Year + Days to Full Moon + (1 | Point)	nbinom1	~1		13185.7	16.0
	Treatment + Days to Full Moon + (1 | Point)	nbinom1	~1		13186.7	17.0
	Treatment + Year + Days to Full Moon + (1 | Point)	nbinom1	~1		13188.0	18.4

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Week + (1 | Point)	nbinom1	~1		13199.1	29.5
	Treatment + (1 | Point)	nbinom1	~1		13199.9	30.3
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		13200.4	30.7
	Treatment + Year + (1 | Point)	nbinom1	~1		13201.4	31.8
	Treatment + Northing + (1 | Point)	nbinom1	~1		13194.4	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1	Location	13196.1	1.7
	Treatment + (1 | Point)	nbinom1	~1		13199.9	5.6
	Treatment + Easting + (1 | Point)	nbinom1	~1		13200.5	6.2
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		13180.6	0.0
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		13181.3	0.7
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		13185.6	5.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		13186.0	5.5
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		13186.6	6.0
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		13187.3	6.7
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		13193.8	13.3
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1	Habitat	13198.3	17.7
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		13199.1	18.5
	Treatment + (1 | Point)	nbinom1	~1		13199.9	19.4
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		13200.0	19.4
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		13200.1	19.5
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		13200.4	19.8
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		13200.5	20.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		13201.7	21.1
	Treatment + Temperature + Wind + Week +Week^2 + Days to Full Moon + Northing + Disturbedloc + Treedloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**13126.7**	
Common Nighthawk	1 + (1 | Point)	nbinom1	~0	Family	19497.8	0.0
	1 + (1 | Point)	poisson	~0		245497.5	225999.7
	1 + (1 | Point)	nbinom1	~1	ZI	19444.7	0.0
	1 + (1 | Point)	nbinom1	~0		19497.8	53.1
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		19219.9	0.0
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		19239.7	19.8
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		19241.4	21.5
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1	Weather	19242.2	22.2
	Treatment + Temperature + (1 | Point)	nbinom1	~1		19242.8	22.9
	Treatment + Humidity + (1 | Point)	nbinom1	~1		19394.2	174.3
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		19427.2	207.3

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Wind + (1 | Point)	nbinom1	~1		19429.2	209.2
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		19433.1	213.2
	Treatment + (1 | Point)	nbinom1	~1		19446.5	226.6
	Treatment + Week +Week^2 + Year + Days to Full Moon + (1 | Point)	nbinom1	~1	Time	19257.7	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		19263.1	5.4
	Treatment + Week +Week^2 + Days to Full Moon + (1 | Point)	nbinom1	~1		19263.2	5.6
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		19270.0	12.3
	Treatment + Week + Year + Days to Full Moon + (1 | Point)	nbinom1	~1		19364.5	106.8
	Treatment + Week + Days to Full Moon + (1 | Point)	nbinom1	~1		19369.9	112.3
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		19380.5	122.8
	Treatment + Week + (1 | Point)	nbinom1	~1		19387.5	129.9
	Treatment + Year + Days to Full Moon + (1 | Point)	nbinom1	~1		19434.3	176.6
	Treatment + Days to Full Moon + (1 | Point)	nbinom1	~1		19437.5	179.8
	Treatment + Year + (1 | Point)	nbinom1	~1		19442.3	184.7
	Treatment + (1 | Point)	nbinom1	~1		19446.5	188.9
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1	Location	19440.1	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~1		19443.8	3.7
	Treatment + (1 | Point)	nbinom1	~1		19446.5	6.4
	Treatment + Northing + (1 | Point)	nbinom1	~1		19448.3	8.2
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1	Habitat	19383.3	0.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		19384.0	0.7
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		19386.5	3.2
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		19387.8	4.5
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		19401.7	18.4
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		19404.7	21.4
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		19411.9	28.6
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		19413.2	29.9
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		19413.3	30.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		19416.6	33.4
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		19427.4	44.1
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		19427.4	44.1
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		19429.7	46.4
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		19431.6	48.3
	Treatment + (1 | Point)	nbinom1	~1		19446.5	63.2

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Temperature + Wind + Week +Week^2 + Year + Days to Full Moon + Easting + Northing + Disturbedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**19077.4**	
Common Raven	1 + (1 | Point)	nbinom1	~0	Family	2459.5	0.0
	1 + (1 | Point)	poisson	~0		7622.7	5163.2
	1 + (1 | Point)	nbinom1	~0	ZI	2459.5	0.0
	1 + (1 | Point)	nbinom1	~1		2461.1	1.6
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0	Weather	2411.9	0.0
	Treatment + Temperature + (1 | Point)	nbinom1	~0		2415.9	4.1
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		2416.7	4.8
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		2417.4	5.5
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		2417.7	5.8
	Treatment + Wind + (1 | Point)	nbinom1	~0		2446.6	34.7
	Treatment + Humidity + (1 | Point)	nbinom1	~0		2459.1	47.2
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		2460.9	49.1
	Treatment + (1 | Point)	nbinom1	~0		2461.1	49.2
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		2461.3	49.5
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	2384.2	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		2386.2	2.0
	Treatment + Week + (1 | Point)	nbinom1	~0		2410.1	25.9
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		2411.5	27.2
	Treatment + (1 | Point)	nbinom1	~0		2461.1	76.8
	Treatment + Year + (1 | Point)	nbinom1	~0		2462.9	78.6
	Treatment + (1 | Point)	nbinom1	~0	Location	2461.1	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~0		2461.7	0.7
	Treatment + Easting + (1 | Point)	nbinom1	~0		2462.0	0.9
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		2463.6	2.5
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0	Habitat	2451.9	0.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2452.6	0.6
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		2452.6	0.7
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		2453.5	1.6
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2454.0	2.1
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		2454.4	2.5
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		2457.6	5.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		2458.1	6.2
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2458.6	6.7

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2458.9	7.0
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2460.0	8.1
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2460.7	8.8
	Treatment + (1 | Point)	nbinom1	~0		2461.1	9.1
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		2464.3	12.4
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		2464.5	12.6
	Treatment + Temperature + Wind + Week +Week^2 + Treedloc + Distance to Water + (1 | Point)	**nbinom1**	**~0**	**Final**	**2362.8**	
Common Tern	1 + (1 | Point)	nbinom1	~0	Family	1276.2	0.0
	1 + (1 | Point)	poisson	~0		5423.7	4147.5
	1 + (1 | Point)	nbinom1	~0	ZI	1276.2	0.0
	1 + (1 | Point)	nbinom1	~1		1276.8	0.6
	Treatment + Wind + (1 | Point)	nbinom1	~0	Weather	1271.1	0.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		1271.1	0.0
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		1273.6	2.5
	Treatment + (1 | Point)	nbinom1	~0		1273.7	2.5
	Treatment + Humidity + (1 | Point)	nbinom1	~0		1273.7	2.6
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		1274.6	3.5
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		1274.7	3.6
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		1274.8	3.7
	Treatment + Temperature + (1 | Point)	nbinom1	~0		1275.0	3.9
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		1275.9	4.8
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0	Time	1269.3	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		1269.5	0.2
	Treatment + (1 | Point)	nbinom1	~0		1273.7	4.4
	Treatment + Year + (1 | Point)	nbinom1	~0		1274.3	5.1
	Treatment + Week + (1 | Point)	nbinom1	~0		1275.5	6.2
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		1276.1	6.8
	Treatment + (1 | Point)	nbinom1	~0	Location	1273.7	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		1274.6	1.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		1275.1	1.5
	Treatment + Northing + (1 | Point)	nbinom1	~0		1275.6	2.0
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0	Habitat	1267.7	0.0
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1269.7	2.0
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		1270.2	2.5
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		1270.4	2.7

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		1270.4	2.7
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1272.3	4.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		1272.3	4.6
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1272.5	4.8
	Treatment + (1 | Point)	nbinom1	~0		1273.7	6.0
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		1273.7	6.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		1273.8	6.1
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		1276.6	8.9
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		1277.0	9.3
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		1277.1	9.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		1277.5	9.8
	Treatment + Wind + Week +Week^2 + Deciduous Mixedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~0**	**Final**	**1260.5**	
Common Yellowthroat	1 + (1 | Point)	nbinom1	~0	Family	3613.0	0.0
	1 + (1 | Point)	poisson	~0		21098.0	17485.0
	1 + (1 | Point)	nbinom1	~1	ZI	3606.4	0.0
	1 + (1 | Point)	nbinom1	~0		3613.0	6.6
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1	Weather	3599.2	0.0
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		3601.5	2.2
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		3604.2	4.9
	Treatment + Temperature + (1 | Point)	nbinom1	~1		3605.0	5.8
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		3606.1	6.9
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		3606.6	7.3
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		3606.7	7.5
	Treatment + (1 | Point)	nbinom1	~1		3607.7	8.5
	Treatment + Humidity + (1 | Point)	nbinom1	~1		3609.0	9.8
	Treatment + Wind + (1 | Point)	nbinom1	~1		3609.7	10.5
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1	Time	3523.5	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		3523.8	0.4
	Treatment + (1 | Point)	nbinom1	~1		3607.7	84.2
	Treatment + Week + (1 | Point)	nbinom1	~1		3607.8	84.3
	Treatment + Year + (1 | Point)	nbinom1	~1		3608.9	85.5
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		3609.2	85.7
	Treatment + (1 | Point)	nbinom1	~1	Location	3607.7	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~1		3609.4	1.7
	Treatment + Easting + (1 | Point)	nbinom1	~1		3609.6	1.9

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		3611.4	3.7
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		3603.7	0.0
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3603.8	0.1
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3604.1	0.4
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		3604.1	0.4
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		3607.2	3.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		3607.6	3.9
	Treatment + (1 | Point)	nbinom1	~1		3607.7	4.0
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1	Habitat	3608.3	4.6
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		3608.4	4.7
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3610.2	6.5
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		3610.3	6.6
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		3610.6	6.9
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3610.8	7.1
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3611.0	7.3
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3611.4	7.7
	Treatment + Temperature + log(Precipitation) + Week +Week^2 + Deciduous Mixedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**3515.6**	
Connecticut Warbler	1 + (1 | Point)	nbinom1	~0	Family	2294.3	0.0
	1 + (1 | Point)	poisson	~0		23265.1	20970.9
	1 + (1 | Point)	nbinom1	~0	ZI	2294.3	0.0
	1 + (1 | Point)	nbinom1	~1		2296.2	1.9
	Treatment + Precipitation + (1 | Point)	nbinom1	~0	Weather	2292.2	0.0
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		2293.1	0.9
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		2294.2	2.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		2295.0	2.8
	Treatment + (1 | Point)	nbinom1	~0		2295.4	3.2
	Treatment + Humidity + (1 | Point)	nbinom1	~0		2295.4	3.2
	Treatment + Wind + (1 | Point)	nbinom1	~0		2296.1	3.9
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		2296.8	4.6
	Treatment + Temperature + (1 | Point)	nbinom1	~0		2297.1	4.9
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		2298.1	5.9
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0	Time	2167.9	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		2175.4	7.4
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		2275.8	107.9
	Treatment + Week + (1 | Point)	nbinom1	~0		2279.5	111.6

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Year + (1 | Point)	nbinom1	~0		2292.6	124.7
	Treatment + (1 | Point)	nbinom1	~0		2295.4	127.4
	Treatment + (1 | Point)	nbinom1	~0		2295.4	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~0	Location	2297.0	1.6
	Treatment + Easting + (1 | Point)	nbinom1	~0		2297.3	1.9
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		2299.0	3.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		2292.1	0.0
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2293.2	1.0
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2293.5	1.4
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		2293.6	1.5
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2293.9	1.7
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2294.0	1.9
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2294.5	2.4
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0	Habitat	2294.7	2.6
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2294.7	2.6
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		2295.3	3.2
	Treatment + (1 | Point)	nbinom1	~0		2295.4	3.3
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		2295.6	3.4
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		2296.0	3.9
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		2298.7	6.6
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		2298.8	6.7
	Treatment + Precipitation + Week +Week^2 + Year + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	**nbinom1**	**~0**	**Final**	**2162.4**	
Dark-eyed Junco	1 + (1 | Point)	nbinom1	~0	Family	18732.7	0.0
	1 + (1 | Point)	poisson	~0		78449.6	59716.9
	1 + (1 | Point)	nbinom1	~1	ZI	18731.7	0.0
	1 + (1 | Point)	nbinom1	~0		18732.7	1.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		18631.1	0.0
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		18635.8	4.8
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		18649.7	18.6
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		18654.6	23.5
	Treatment + Precipitation + (1 | Point)	nbinom1	~0	Weather	18655.5	24.4
	Treatment + Wind + (1 | Point)	nbinom1	~0		18656.0	24.9
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		18705.2	74.1
	Treatment + Temperature + (1 | Point)	nbinom1	~0		18715.2	84.1
	Treatment + Humidity + (1 | Point)	nbinom1	~0		18728.6	97.5

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + (1 | Point)	nbinom1	~0		18733.7	102.6
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	18703.7	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		18704.7	1.0
	Treatment + (1 | Point)	nbinom1	~0		18733.7	30.0
	Treatment + Year + (1 | Point)	nbinom1	~0		18734.2	30.5
	Treatment + Week + (1 | Point)	nbinom1	~0		18735.6	31.9
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		18736.1	32.4
	Treatment + Northing + (1 | Point)	nbinom1	~0	Location	18732.9	0.0
	Treatment + (1 | Point)	nbinom1	~0		18733.7	0.8
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		18734.8	1.9
	Treatment + Easting + (1 | Point)	nbinom1	~0		18735.1	2.2
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0	Habitat	18715.8	0.0
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		18722.7	6.9
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		18725.7	10.0
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		18726.5	10.7
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		18729.5	13.7
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		18729.5	13.7
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		18729.7	13.9
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		18729.9	14.2
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		18730.1	14.3
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		18730.3	14.5
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		18733.2	17.4
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		18733.6	17.9
	Treatment + (1 | Point)	nbinom1	~0		18733.7	17.9
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		18737.0	21.2
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		18737.6	21.8
	Treatment + Temperature + log(Precipitation) + Week +Week^2 + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	**nbinom1**	**~0**	**Final**	**18564.2**	
Downy Woodpecker	1 + (1 | Point)	nbinom1	~0	Family	611.2	0.0
	1 + (1 | Point)	poisson	~0		1977.7	1366.5
	1 + (1 | Point)	nbinom1	~0	ZI	611.2	0.0
	1 + (1 | Point)	nbinom1	~1		613.2	2.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0	Weather	607.1	0.0
	Treatment + Temperature + (1 | Point)	nbinom1	~0		607.8	0.7
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		608.4	1.4
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		608.6	1.6

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		608.7	1.7
	Treatment + Wind + (1 | Point)	nbinom1	~0		609.4	2.4
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		612.9	5.9
	Treatment + (1 | Point)	nbinom1	~0		613.2	6.2
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		613.3	6.3
	Treatment + Humidity + (1 | Point)	nbinom1	~0		615.0	7.9
	Treatment + Week + (1 | Point)	nbinom1	~0	Time	608.4	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		610.3	1.9
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		610.4	2.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		612.3	3.9
	Treatment + (1 | Point)	nbinom1	~0		613.2	4.8
	Treatment + Year + (1 | Point)	nbinom1	~0		615.2	6.8
	Treatment + (1 | Point)	nbinom1	~0	Location	613.2	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		614.8	1.6
	Treatment + Northing + (1 | Point)	nbinom1	~0		615.2	2.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		616.3	3.0
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0	Habitat	611.9	0.0
	Treatment + (1 | Point)	nbinom1	~0		613.2	1.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		613.3	1.4
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		614.5	2.6
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		615.5	3.6
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		615.6	3.8
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		615.7	3.8
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		615.7	3.8
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		615.9	4.0
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		616.3	4.4
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		616.4	4.5
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		616.8	4.9
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		617.2	5.4
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		617.7	5.8
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		617.7	5.9
	Treatment + Temperature + Week + (1 | Point)	**nbinom1**	**~0**	**Final**	**608.0**	
Eastern Whip-poor-will	1 + (1 | Point)	nbinom1	~0	Family	1367.1	0.0
	1 + (1 | Point)	poisson	~0		16769.1	15401.9
	1 + (1 | Point)	nbinom1	~0	ZI	1367.1	0.0

Species	Model	Family	ZI	Test	AICc	Delta AICc
	1 + (1 | Point)	nbinom1	~1		1367.3	0.2
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0	Weather	1352.8	0.0
	Treatment + Humidity + (1 | Point)	nbinom1	~0		1352.8	0.1
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		1354.1	1.3
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		1359.9	7.2
	Treatment + Temperature + (1 | Point)	nbinom1	~0		1361.0	8.3
	Treatment + Wind + (1 | Point)	nbinom1	~0		1361.5	8.8
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		1362.7	9.9
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		1363.8	11.0
	Treatment + (1 | Point)	nbinom1	~0		1367.7	14.9
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		1368.7	15.9
	Treatment + Year + Days to Full Moon + (1 | Point)	nbinom1	~0	Time	1333.2	0.0
	Treatment + Week + Year + Days to Full Moon + (1 | Point)	nbinom1	~0		1333.6	0.4
	Treatment + Week +Week^2 + Year + Days to Full Moon + (1 | Point)	nbinom1	~0		1334.0	0.8
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		1334.1	0.9
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		1335.2	1.9
	Treatment + Year + (1 | Point)	nbinom1	~0		1335.5	2.2
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		1362.5	29.3
	Treatment + Week +Week^2 + Days to Full Moon + (1 | Point)	nbinom1	~0		1363.6	30.3
	Treatment + Week + Days to Full Moon + (1 | Point)	nbinom1	~0		1364.6	31.3
	Treatment + Week + (1 | Point)	nbinom1	~0		1364.7	31.5
	Treatment + Days to Full Moon + (1 | Point)	nbinom1	~0		1366.0	32.8
	Treatment + (1 | Point)	nbinom1	~0		1367.7	34.4
	Treatment + Easting + (1 | Point)	nbinom1	~0	Location	1366.5	0.0
	Treatment + (1 | Point)	nbinom1	~0		1367.7	1.2
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		1368.5	2.0
	Treatment + Northing + (1 | Point)	nbinom1	~0		1368.9	2.4
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0	Habitat	1363.8	0.0
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1364.2	0.5
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		1364.4	0.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		1365.2	1.4
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		1365.6	1.8
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		1365.7	1.9
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		1366.0	2.3
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		1366.1	2.3

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + (1 | Point)	nbinom1	~0		1367.7	3.9
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1369.2	5.5
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		1369.9	6.2
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		1371.0	7.2
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		1371.0	7.2
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1371.3	7.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		1371.4	7.7
	Treatment + Humidity + Year + Days to Full Moon + Treedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~0**	**Final**	**1313.1**	
Greater Yellowlegs	1 + (1 | Point)	nbinom1	~0	Family	8174.9	0.0
	1 + (1 | Point)	poisson	~0		48633.1	40458.2
	1 + (1 | Point)	nbinom1	~0	ZI	8174.9	0.0
	1 + (1 | Point)	nbinom1	~1		8176.9	2.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0	Weather	8168.5	0.0
	Treatment + Temperature + (1 | Point)	nbinom1	~0		8170.3	1.8
	Treatment + Wind + (1 | Point)	nbinom1	~0		8170.5	2.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		8170.6	2.1
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		8170.8	2.3
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		8170.8	2.3
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		8174.4	5.9
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		8174.6	6.1
	Treatment + (1 | Point)	nbinom1	~0		8175.5	7.0
	Treatment + Humidity + (1 | Point)	nbinom1	~0		8176.8	8.3
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	8149.0	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		8149.4	0.4
	Treatment + Week + (1 | Point)	nbinom1	~0		8151.1	2.1
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		8151.9	2.8
	Treatment + (1 | Point)	nbinom1	~0		8175.5	26.5
	Treatment + Year + (1 | Point)	nbinom1	~0		8176.9	27.8
	Treatment + (1 | Point)	nbinom1	~0	Location	8175.5	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		8175.6	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~0		8176.0	0.5
	Treatment + Easting + (1 | Point)	nbinom1	~0		8177.4	1.8
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0	Habitat	8150.4	0.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		8152.0	1.6
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		8157.1	6.7

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		8157.1	6.7
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		8159.7	9.2
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		8160.4	10.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		8163.4	13.0
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		8165.6	15.2
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		8169.5	19.1
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		8169.9	19.5
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		8173.5	23.1
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		8173.9	23.5
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		8174.5	24.1
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		8175.2	24.8
	Treatment + (1 | Point)	nbinom1	~0		8175.5	25.1
	Treatment + Temperature + Week +Week^2 + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	**nbinom1**	**~0**	**Final**	**8125.6**	
Least Flycatcher	1 + (1 | Point)	nbinom1	~0	Family	3439.6	0.0
	1 + (1 | Point)	poisson	~0		48376.8	44937.2
	1 + (1 | Point)	nbinom1	~1	ZI	3420.8	0.0
	1 + (1 | Point)	nbinom1	~0		3439.6	18.8
	Treatment + Humidity + (1 | Point)	nbinom1	~1	Weather	3420.5	0.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		3420.6	0.1
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		3420.9	0.4
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		3421.9	1.4
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		3422.1	1.6
	Treatment + (1 | Point)	nbinom1	~1		3422.1	1.6
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		3422.2	1.7
	Treatment + Temperature + (1 | Point)	nbinom1	~1		3422.5	2.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		3422.9	2.4
	Treatment + Wind + (1 | Point)	nbinom1	~1		3423.5	3.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1	Time	3337.6	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		3337.7	0.1
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		3384.9	47.3
	Treatment + Week + (1 | Point)	nbinom1	~1		3386.1	48.5
	Treatment + Year + (1 | Point)	nbinom1	~1		3421.7	84.1
	Treatment + (1 | Point)	nbinom1	~1		3422.1	84.4
	Treatment + (1 | Point)	nbinom1	~1	Location	3422.1	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~1		3423.6	1.5

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Easting + (1 | Point)	nbinom1	~1		3423.9	1.8
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		3425.6	3.5
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		3415.6	0.0
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		3415.7	0.1
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3417.9	2.4
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		3418.6	3.1
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3419.6	4.0
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		3420.9	5.4
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3421.2	5.6
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1	Habitat	3421.3	5.7
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3421.4	5.8
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3421.6	6.0
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		3421.6	6.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		3421.6	6.0
	Treatment + (1 | Point)	nbinom1	~1		3422.1	6.5
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		3424.1	8.5
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		3424.1	8.5
	Treatment + Week +Week^2 + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**3331.2**	
Lincoln's Sparrow	1 + (1 | Point)	nbinom1	~0	Family	16059.9	0.0
	1 + (1 | Point)	poisson	~0		129438.2	113378.3
	1 + (1 | Point)	nbinom1	~1	ZI	16043.8	0.0
	1 + (1 | Point)	nbinom1	~0		16059.9	16.1
	Treatment + (1 | Point)	nbinom1	~1	Weather	16045.8	
	Treatment + Temperature + (1 | Point)	nbinom1	~1		16037.1	
	Treatment + Wind + (1 | Point)	nbinom1	~1		15947.7	
	Treatment + Humidity + (1 | Point)	nbinom1	~1			
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		15996.5	
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		15949.7	
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1			
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		15993.4	
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		15989.6	
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		15986.9	
	Treatment + (1 | Point)	nbinom1	~1	Time	16045.8	
	Treatment + Year + (1 | Point)	nbinom1	~1		16044.1	
	Treatment + Week + (1 | Point)	nbinom1	~1			

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		15912.7	
	Treatment + Week + Year + (1 | Point)	nbinom1	~1			
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		15908.1	
	Treatment + Easting + (1 | Point)	nbinom1	~1	Location	16034.2	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		16035.3	1.0
	Treatment + Northing + (1 | Point)	nbinom1	~1		16045.3	11.1
	Treatment + (1 | Point)	nbinom1	~1		16045.8	11.6
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1	Habitat	16019.3	0.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		16022.3	2.9
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		16023.3	4.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		16023.7	4.4
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		16025.1	5.8
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		16026.9	7.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		16027.1	7.8
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		16027.6	8.3
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		16028.0	8.6
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		16031.2	11.9
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		16041.7	22.4
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		16044.3	25.0
	Treatment + (1 | Point)	nbinom1	~1		16045.8	26.5
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		16046.5	27.2
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		16047.6	28.3
	Treatment + Easting + Treedloc + log(Wetlandloc) + (1 | Point)	**nbinom1**	**~1**	**Final**	**16010.0**	
Magnolia Warbler	1 + (1 | Point)	nbinom1	~0	Family	13635.1	0.0
	1 + (1 | Point)	poisson	~0		66963.2	53328.1
	1 + (1 | Point)	nbinom1	~1	ZI	13600.3	0.0
	1 + (1 | Point)	nbinom1	~0		13635.1	34.8
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1	Weather	13474.8	0.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		13476.8	2.0
	Treatment + Wind + (1 | Point)	nbinom1	~1		13493.8	19.0
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		13494.9	20.2
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		13494.9	20.2
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		13496.8	22.1
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		13584.6	109.9
	Treatment + (1 | Point)	nbinom1	~1		13593.2	118.4

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Humidity + (1 | Point)	nbinom1	~1		13593.3	118.5
	Treatment + Temperature + (1 | Point)	nbinom1	~1		13596.5	121.7
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	13207.9	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		13221.1	13.2
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		13513.4	305.5
	Treatment + Week + (1 | Point)	nbinom1	~1		13529.2	321.3
	Treatment + Year + (1 | Point)	nbinom1	~1		13571.5	363.5
	Treatment + (1 | Point)	nbinom1	~1		13593.2	385.3
	Treatment + (1 | Point)	nbinom1	~1	Location	13593.2	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~1		13601.3	8.1
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		13602.9	9.7
	Treatment + Easting + (1 | Point)	nbinom1	~1		13603.2	10.1
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1	Habitat	13580.8	0.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		13582.1	1.3
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		13582.8	2.0
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		13584.6	3.8
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		13585.2	4.4
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		13586.3	5.4
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		13586.5	5.7
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		13588.0	7.2
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		13589.9	9.1
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		13589.9	9.1
	Treatment + (1 | Point)	nbinom1	~1		13593.2	12.4
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		13596.7	15.9
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		13598.1	17.3
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		13598.6	17.7
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		13598.6	17.8
	Treatment + log(Precipitation) + Week +Week^2 + Year + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	**nbinom1**	**~1**	**Final**	**13069.9**	
Mallard	1 + (1 | Point)	nbinom1	~0	Family	3533.4	0.0
	1 + (1 | Point)	poisson	~0		16347.5	12814.1
	1 + (1 | Point)	nbinom1	~0	ZI	3533.4	0.0
	1 + (1 | Point)	nbinom1	~1		3535.4	2.0
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0	Weather	3434.3	0.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		3441.2	7.0
	Treatment + Temperature + (1 | Point)	nbinom1	~0		3441.2	7.0

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		3441.3	7.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		3443.1	8.9
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		3531.3	97.0
	Treatment + Wind + (1 | Point)	nbinom1	~0		3531.9	97.7
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		3531.9	97.7
	Treatment + Humidity + (1 | Point)	nbinom1	~0		3534.2	99.9
	Treatment + (1 | Point)	nbinom1	~0		3534.3	100.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		3338.1	0.0
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		3346.6	8.5
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	3350.6	12.6
	Treatment + Week + (1 | Point)	nbinom1	~0		3363.0	24.9
	Treatment + Year + (1 | Point)	nbinom1	~0		3526.7	188.6
	Treatment + (1 | Point)	nbinom1	~0		3534.3	196.2
	Treatment + Northing + (1 | Point)	nbinom1	~0		3533.4	0.0
	Treatment + (1 | Point)	nbinom1	~0		3534.3	0.9
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0	Location	3535.3	2.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		3535.6	2.2
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		3505.7	0.0
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		3507.7	2.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		3507.9	2.2
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		3511.2	5.5
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3513.2	7.4
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		3513.3	7.5
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		3514.7	8.9
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3516.8	11.1
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0	Habitat	3526.1	20.4
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3526.2	20.5
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3527.5	21.8
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3527.9	22.2
	Treatment + (1 | Point)	nbinom1	~0		3534.3	28.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		3538.0	32.3
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		3539.0	33.3
	Treatment + Temperature + Humidity + Week +Week^2 + Year + Disturbedloc + Treedloc + (1 | Point)	**nbinom1**	**~0**	**Final**	**3305.0**	
Mourning Warbler	1 + (1 | Point)	nbinom1	~0	Family	3203.7	0.0
	1 + (1 | Point)	poisson	~0		16000.6	12796.9

Species	Model	Family	ZI	Test	AICc	Delta AICc
	1 + (1 | Point)	nbinom1	~1	ZI	3197.8	0.0
	1 + (1 | Point)	nbinom1	~0		3203.7	5.9
	Treatment + Wind + (1 | Point)	nbinom1	~1	Weather	3178.8	0.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		3180.7	2.0
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		3196.7	17.9
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		3197.6	18.8
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		3197.9	19.1
	Treatment + Temperature + (1 | Point)	nbinom1	~1		3198.6	19.9
	Treatment + (1 | Point)	nbinom1	~1		3198.6	19.9
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		3198.7	20.0
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		3200.5	21.8
	Treatment + Humidity + (1 | Point)	nbinom1	~1		3200.6	21.9
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	3161.4	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		3162.0	0.7
	Treatment + Week + (1 | Point)	nbinom1	~1		3197.9	36.6
	Treatment + (1 | Point)	nbinom1	~1		3198.6	37.3
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		3199.2	37.9
	Treatment + Year + (1 | Point)	nbinom1	~1		3200.3	38.9
	Treatment + (1 | Point)	nbinom1	~1	Location	3198.6	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~1		3200.5	1.8
	Treatment + Northing + (1 | Point)	nbinom1	~1		3200.5	1.8
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		3201.7	3.1
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1	Habitat	3179.8	0.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3180.4	0.7
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		3182.4	2.7
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3182.7	2.9
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		3186.0	6.2
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		3187.0	7.3
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3193.6	13.9
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3193.8	14.1
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3193.9	14.1
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		3195.5	15.7
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		3195.8	16.1
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3196.0	16.2
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		3197.4	17.7

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		3198.0	18.3
	Treatment + (1 | Point)	nbinom1	~1		3198.6	18.9
	Treatment + Wind + Week +Week^2 + Disturbedloc + Treedloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**3122.9**	
Nashville Warbler	1 + (1 | Point)	nbinom1	~0	Family	27859.4	0.0
	1 + (1 | Point)	poisson	~0		416017.5	388158.1
	1 + (1 | Point)	nbinom1	~1	ZI	27637.6	0.0
	1 + (1 | Point)	nbinom1	~0		27859.4	221.8
	Treatment + (1 | Point)	nbinom1	~1	Weather	27636.1	
	Treatment + Temperature + (1 | Point)	nbinom1	~1			
	Treatment + Wind + (1 | Point)	nbinom1	~1		27544.1	
	Treatment + Humidity + (1 | Point)	nbinom1	~1		27613.6	
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		27575.4	
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		27495.5	
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1			
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		27549.5	
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		27565.8	
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		27537.1	
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	26132.8	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		26135.0	2.2
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		27621.9	1489.2
	Treatment + Year + (1 | Point)	nbinom1	~1		27626.0	1493.3
	Treatment + Week + (1 | Point)	nbinom1	~1		27633.5	1500.8
	Treatment + (1 | Point)	nbinom1	~1		27636.1	1503.3
	Treatment + Northing + (1 | Point)	nbinom1	~1	Location	27632.3	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		27634.1	1.9
	Treatment + Easting + (1 | Point)	nbinom1	~1		27635.1	2.8
	Treatment + (1 | Point)	nbinom1	~1		27636.1	3.8
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1	Habitat	27629.3	0.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		27629.3	0.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		27632.3	3.0
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		27632.6	3.3
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		27635.4	6.2
	Treatment + (1 | Point)	nbinom1	~1		27636.1	6.8
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		27636.1	6.9
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		27636.4	7.2

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		27637.1	7.9
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		27637.3	8.0
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		27637.3	8.1
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		27637.6	8.4
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		27637.7	8.4
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		27639.1	9.8
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		27639.2	9.9
	Treatment + Week +Week^2 + Year + Northing + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**26128.3**	
Northern Flicker	1 + (1 | Point)	nbinom1	~0	Family	3671.6	0.0
	1 + (1 | Point)	poisson	~0		10148.6	6477.0
	1 + (1 | Point)	nbinom1	~0	ZI	3671.6	0.0
	1 + (1 | Point)	nbinom1	~1		3673.6	2.0
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0	Weather	3622.0	0.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		3626.0	4.1
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		3633.7	11.7
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		3637.5	15.6
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		3647.9	26.0
	Treatment + Temperature + (1 | Point)	nbinom1	~0		3653.3	31.4
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		3654.4	32.5
	Treatment + Wind + (1 | Point)	nbinom1	~0		3668.9	46.9
	Treatment + Humidity + (1 | Point)	nbinom1	~0		3670.3	48.3
	Treatment + (1 | Point)	nbinom1	~0		3671.7	49.7
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0	Time	3598.9	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		3600.5	1.6
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		3637.5	38.6
	Treatment + Week + (1 | Point)	nbinom1	~0		3643.7	44.8
	Treatment + Year + (1 | Point)	nbinom1	~0		3668.2	69.2
	Treatment + (1 | Point)	nbinom1	~0		3671.7	72.7
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0	Location	3668.2	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		3668.7	0.5
	Treatment + (1 | Point)	nbinom1	~0		3671.7	3.5
	Treatment + Northing + (1 | Point)	nbinom1	~0		3673.6	5.4
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0	Habitat	3658.0	0.0
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		3658.4	0.4
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		3659.3	1.3

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		3659.5	1.5
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		3659.7	1.7
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		3660.2	2.2
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3660.3	2.3
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3660.3	2.3
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3661.6	3.6
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3662.1	4.1
	Treatment + (1 | Point)	nbinom1	~0		3671.7	13.7
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3672.7	14.7
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3673.2	15.2
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		3673.7	15.7
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		3673.7	15.7
	Treatment + Temperature + Precipitation + Week +Week^2 + Easting + log(Disturbedloc) + Treedloc + (1 | Point)	**nbinom1**	**~0**	**Final**	**3548.0**	
Northern Waterthrush	1 + (1 | Point)	nbinom1	~0	Family	1097.2	0.0
	1 + (1 | Point)	poisson	~0		2295.1	1197.9
	1 + (1 | Point)	nbinom1	~1	ZI	1094.0	0.0
	1 + (1 | Point)	nbinom1	~0		1097.2	3.2
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1	Weather	1083.2	0.0
	Treatment + Temperature + (1 | Point)	nbinom1	~1		1084.7	1.5
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		1085.9	2.6
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		1086.4	3.1
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		1086.7	3.4
	Treatment + (1 | Point)	nbinom1	~1		1095.1	11.9
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		1095.4	12.1
	Treatment + Wind + (1 | Point)	nbinom1	~1		1095.9	12.6
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		1096.1	12.9
	Treatment + Humidity + (1 | Point)	nbinom1	~1		1096.6	13.3
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	1073.0	0.0
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		1079.4	6.4
	Treatment + Year + (1 | Point)	nbinom1	~1		1084.2	11.3
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		1086.0	13.0
	Treatment + Week + (1 | Point)	nbinom1	~1		1089.4	16.4
	Treatment + (1 | Point)	nbinom1	~1		1095.1	22.1
	Treatment + Northing + (1 | Point)	nbinom1	~1	Location	1095.1	0.0
	Treatment + (1 | Point)	nbinom1	~1		1095.1	0.0

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		1096.6	1.5
	Treatment + Easting + (1 | Point)	nbinom1	~1		1097.0	1.9
	Treatment + (1 | Point)	nbinom1	~1		1095.1	0.0
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		1096.3	1.2
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		1096.7	1.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		1096.9	1.8
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		1097.3	2.2
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		1097.5	2.4
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		1097.7	2.6
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1	Habitat	1098.5	3.4
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		1098.5	3.4
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		1098.8	3.7
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		1098.8	3.7
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		1098.9	3.8
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		1099.0	3.9
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		1100.4	5.3
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		1100.4	5.3
	Treatment + Temperature + Week +Week^2 + Year + (1 | Point)	**nbinom1**	**~1**	**Final**	**1067.7**	
Olive-sided Flycatcher	1 + (1 | Point)	nbinom1	~0	Family	6032.2	0.0
	1 + (1 | Point)	poisson	~0		60120.4	54088.1
	1 + (1 | Point)	nbinom1	~0	ZI	6032.2	0.0
	1 + (1 | Point)	nbinom1	~1		6034.2	2.0
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		6014.5	0.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		6015.1	0.6
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		6015.2	0.8
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		6015.7	1.3
	Treatment + Wind + (1 | Point)	nbinom1	~0	Weather	6023.2	8.8
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		6024.1	9.6
	Treatment + Temperature + (1 | Point)	nbinom1	~0		6031.4	17.0
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		6033.1	18.6
	Treatment + (1 | Point)	nbinom1	~0		6033.8	19.3
	Treatment + Humidity + (1 | Point)	nbinom1	~0		6035.7	21.3
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		5989.7	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	5990.9	1.2
	Treatment + Year + (1 | Point)	nbinom1	~0		6030.8	41.1

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		6032.1	42.4
	Treatment + (1 | Point)	nbinom1	~0		6033.8	44.1
	Treatment + Week + (1 | Point)	nbinom1	~0		6034.7	45.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		6022.0	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0	Location	6024.0	2.0
	Treatment + Northing + (1 | Point)	nbinom1	~0		6031.1	9.1
	Treatment + (1 | Point)	nbinom1	~0		6033.8	11.8
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		6015.8	0.0
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		6017.5	1.7
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		6023.2	7.5
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		6024.0	8.3
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		6025.7	9.9
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		6026.3	10.6
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		6026.4	10.6
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0	Habitat	6026.4	10.7
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		6026.6	10.8
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		6027.2	11.4
	Treatment + (1 | Point)	nbinom1	~0		6033.8	18.0
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		6034.5	18.7
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		6035.2	19.4
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		6035.9	20.2
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		6036.3	20.6
	Treatment + log(Precipitation) + Week +Week^2 + Easting + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	**nbinom1**	**~0**	**Final**	**5942.1**	
Ovenbird	1 + (1 | Point)	nbinom1	~0	Family	1701.6	0.0
	1 + (1 | Point)	poisson	~0		3802.9	2101.3
	1 + (1 | Point)	nbinom1	~0	ZI	1701.6	0.0
	1 + (1 | Point)	nbinom1	~1		1703.7	2.0
	Treatment + Wind + (1 | Point)	nbinom1	~0		1680.5	0.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		1681.8	1.4
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		1687.6	7.2
	Treatment + Temperature + (1 | Point)	nbinom1	~0		1687.8	7.3
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0	Weather	1688.3	7.8
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		1688.9	8.4
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		1690.7	10.2
	Treatment + Humidity + (1 | Point)	nbinom1	~0		1690.8	10.3

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		1691.5	11.0
	Treatment + (1 | Point)	nbinom1	~0		1692.1	11.6
	Treatment + Week + Year + (1 | Point)	nbinom1	~0	Time	1671.5	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		1671.8	0.3
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		1677.3	5.8
	Treatment + Week + (1 | Point)	nbinom1	~0		1678.2	6.7
	Treatment + Year + (1 | Point)	nbinom1	~0		1683.6	12.1
	Treatment + (1 | Point)	nbinom1	~0		1692.1	20.6
	Treatment + Easting + (1 | Point)	nbinom1	~0	Location	1687.6	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		1688.6	0.9
	Treatment + Northing + (1 | Point)	nbinom1	~0		1688.8	1.1
	Treatment + (1 | Point)	nbinom1	~0		1692.1	4.5
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0	Habitat	1691.9	0.0
	Treatment + (1 | Point)	nbinom1	~0		1692.1	0.2
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		1692.6	0.8
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1693.1	1.3
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		1693.4	1.5
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		1693.6	1.7
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		1693.8	2.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		1694.0	2.1
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1694.0	2.2
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		1694.4	2.6
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		1694.7	2.9
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		1695.8	4.0
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		1696.0	4.2
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		1696.0	4.2
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		1696.0	4.2
	Treatment + Wind + Week + Year + Easting + (1 | Point)	**nbinom1**	**~0**	**Final**	**1654.5**	
Philadelphia Vireo	1 + (1 | Point)	nbinom1	~0	Family	3221.6	0.0
	1 + (1 | Point)	poisson	~0		15892.8	12671.1
	1 + (1 | Point)	nbinom1	~0	ZI	3221.6	0.0
	1 + (1 | Point)	nbinom1	~1		3223.6	2.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0	Weather	3202.6	0.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		3203.8	1.2
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		3211.1	8.5

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		3215.9	13.3
	Treatment + Temperature + (1 | Point)	nbinom1	~0		3216.2	13.6
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		3217.7	15.0
	Treatment + Wind + (1 | Point)	nbinom1	~0		3217.8	15.2
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		3221.6	19.0
	Treatment + Humidity + (1 | Point)	nbinom1	~0		3223.1	20.4
	Treatment + (1 | Point)	nbinom1	~0		3223.5	20.9
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		3143.3	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		3175.1	31.9
	Treatment + Year + (1 | Point)	nbinom1	~0	Time	3185.8	42.6
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		3187.4	44.2
	Treatment + (1 | Point)	nbinom1	~0		3223.5	80.2
	Treatment + Week + (1 | Point)	nbinom1	~0		3225.5	82.2
	Treatment + Easting + (1 | Point)	nbinom1	~0		3222.1	0.0
	Treatment + (1 | Point)	nbinom1	~0		3223.5	1.3
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0	Location	3223.9	1.7
	Treatment + Northing + (1 | Point)	nbinom1	~0		3225.0	2.8
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		3218.2	0.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3218.3	0.2
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3218.4	0.2
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3218.6	0.5
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3218.8	0.7
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3219.0	0.8
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3219.1	0.9
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		3219.1	0.9
	Treatment + (1 | Point)	nbinom1	~0	Habitat	3223.5	5.3
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		3225.1	7.0
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		3225.2	7.0
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		3225.7	7.5
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		3225.8	7.7
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		3228.5	10.4
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		3228.7	10.5
	Treatment + Temperature + Wind + Week +Week^2 + Year + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	**nbinom1**	**~0**	**Final**	**3125.9**	
Pine Siskin	1 + (1 | Point)	nbinom1	~0	Family	4244.3	0.0
	1 + (1 | Point)	poisson	~0		6142.3	1898.0

Species	Model	Family	ZI	Test	AICc	Delta AICc
	1 + (1 | Point)	nbinom1	~1	ZI	4241.8	0.0
	1 + (1 | Point)	nbinom1	~0		4244.3	2.6
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1	Weather	4167.6	0.0
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		4178.4	10.8
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		4189.8	22.2
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		4200.6	32.9
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		4211.0	43.4
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		4220.4	52.8
	Treatment + Temperature + (1 | Point)	nbinom1	~1		4222.5	54.9
	Treatment + Wind + (1 | Point)	nbinom1	~1		4228.8	61.1
	Treatment + Humidity + (1 | Point)	nbinom1	~1		4236.7	69.1
	Treatment + (1 | Point)	nbinom1	~1		4243.7	76.1
	Treatment + Week + Year + (1 | Point)	nbinom1	~1	Time	4117.5	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		4119.4	1.9
	Treatment + Week + (1 | Point)	nbinom1	~1		4122.0	4.6
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		4124.0	6.6
	Treatment + (1 | Point)	nbinom1	~1		4243.7	126.2
	Treatment + Year + (1 | Point)	nbinom1	~1		4245.5	128.0
	Treatment + Northing + (1 | Point)	nbinom1	~1	Location	4241.1	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		4242.3	1.2
	Treatment + (1 | Point)	nbinom1	~1		4243.7	2.6
	Treatment + Easting + (1 | Point)	nbinom1	~1		4245.4	4.3
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1	Habitat	4239.9	0.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		4239.9	0.0
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		4240.8	0.9
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		4240.8	0.9
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		4241.0	1.1
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		4241.1	1.2
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		4241.2	1.3
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		4241.2	1.3
	Treatment + (1 | Point)	nbinom1	~1		4243.7	3.8
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		4244.7	4.8
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		4245.6	5.7
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		4246.1	6.2
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		4246.2	6.3

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		4246.4	6.5
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		4247.6	7.7
	Treatment + Temperature + log(Precipitation) + Week + Year + Northing + log(Disturbedloc) + Treedloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**4068.2**	
Red-breasted Nuthatch	1 + (1 | Point)	nbinom1	~0	Family	3502.4	0.0
	1 + (1 | Point)	poisson	~0		10461.2	6958.8
	1 + (1 | Point)	nbinom1	~1	ZI	3499.4	0.0
	1 + (1 | Point)	nbinom1	~0		3502.4	3.1
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1	Weather	3464.6	0.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		3469.2	4.6
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		3472.1	7.4
	Treatment + Temperature + (1 | Point)	nbinom1	~1		3477.9	13.3
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		3479.1	14.5
	Treatment + Wind + (1 | Point)	nbinom1	~1		3479.5	14.9
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		3479.8	15.2
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		3488.2	23.6
	Treatment + (1 | Point)	nbinom1	~1		3498.0	33.4
	Treatment + Humidity + (1 | Point)	nbinom1	~1		3500.0	35.4
	Treatment + (1 | Point)	nbinom1	~1	Time	3498.0	0.0
	Treatment + Week + (1 | Point)	nbinom1	~1		3499.0	1.0
	Treatment + Year + (1 | Point)	nbinom1	~1		3499.7	1.7
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		3500.8	2.8
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		3500.9	2.9
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		3502.7	4.7
	Treatment + Easting + (1 | Point)	nbinom1	~1	Location	3493.2	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		3495.2	2.0
	Treatment + (1 | Point)	nbinom1	~1		3498.0	4.8
	Treatment + Northing + (1 | Point)	nbinom1	~1		3498.1	4.9
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1	Habitat	3481.3	0.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		3481.3	0.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3488.0	6.7
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3489.0	7.7
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3489.6	8.3
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3491.2	9.9
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		3495.0	13.7
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		3495.1	13.8

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		3495.8	14.5
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		3495.9	14.6
	Treatment + (1 | Point)	nbinom1	~1		3498.0	16.7
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		3498.8	17.5
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3498.9	17.6
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3500.2	18.9
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		3500.3	19.0
	Treatment + Temperature + log(Precipitation) + Easting + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**3447.9**	
Red-winged Blackbird	1 + (1 | Point)	nbinom1	~0	Family	454.2	0.0
	1 + (1 | Point)	poisson	~0		1090.1	635.8
	1 + (1 | Point)	nbinom1	~0	ZI	454.2	0.0
	1 + (1 | Point)	nbinom1	~1		456.2	2.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0	Weather	452.7	0.0
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		453.1	0.4
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		454.1	1.4
	Treatment + Temperature + (1 | Point)	nbinom1	~0		454.4	1.7
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		454.8	2.1
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		455.5	2.8
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		455.9	3.2
	Treatment + (1 | Point)	nbinom1	~0		456.1	3.4
	Treatment + Wind + (1 | Point)	nbinom1	~0		456.6	3.9
	Treatment + Humidity + (1 | Point)	nbinom1	~0		457.9	5.1
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	452.7	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		454.5	1.8
	Treatment + (1 | Point)	nbinom1	~0		456.1	3.4
	Treatment + Week + (1 | Point)	nbinom1	~0		457.9	5.2
	Treatment + Year + (1 | Point)	nbinom1	~0		458.0	5.3
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		459.8	7.1
	Treatment + (1 | Point)	nbinom1	~0	Location	456.1	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~0		457.7	1.6
	Treatment + Easting + (1 | Point)	nbinom1	~0		457.9	1.8
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		459.7	3.6
	Treatment + (1 | Point)	nbinom1	~0	Habitat	456.1	0.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		459.7	3.6

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		459.8	3.7
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		459.8	3.8
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		459.8	3.8
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		459.8	3.8
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		459.9	3.8
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		459.9	3.8
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		460.0	3.9
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		460.0	3.9
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		460.0	3.9
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		460.0	3.9
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		460.0	3.9
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		462.0	5.9
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		462.0	6.0
	Treatment + log(Precipitation) + Week +Week^2 + (1 | Point)	**nbinom1**	**~0**	**Final**	**451.1**	
Ring-billed Gull	1 + (1 | Point)	nbinom1	~0	Family	491.1	0.0
	1 + (1 | Point)	poisson	~0		767.5	276.3
	1 + (1 | Point)	nbinom1	~0	ZI	491.1	0.0
	1 + (1 | Point)	nbinom1	~1		493.0	1.9
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0	Weather	482.9	0.0
	Treatment + Temperature + (1 | Point)	nbinom1	~0		484.2	1.4
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		485.3	2.5
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		486.2	3.3
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		486.2	3.4
	Treatment + (1 | Point)	nbinom1	~0		489.8	6.9
	Treatment + Humidity + (1 | Point)	nbinom1	~0		490.2	7.3
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		491.6	8.7
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		491.7	8.8
	Treatment + Wind + (1 | Point)	nbinom1	~0		491.8	8.9
	Treatment + Week + (1 | Point)	nbinom1	~0	Time	482.1	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		482.4	0.2
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		483.1	1.0
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		483.3	1.2
	Treatment + (1 | Point)	nbinom1	~0		489.8	7.7
	Treatment + Year + (1 | Point)	nbinom1	~0		491.4	9.2
	Treatment + (1 | Point)	nbinom1	~0	Location	489.8	0.0

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Easting + (1 | Point)	nbinom1	~0		491.2	1.4
	Treatment + Northing + (1 | Point)	nbinom1	~0		491.4	1.6
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		493.2	3.4
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		487.7	0.0
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		488.7	1.0
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		489.1	1.4
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		489.4	1.7
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		489.4	1.7
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		489.5	1.8
	Treatment + (1 | Point)	nbinom1	~0		489.8	2.1
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0	Habitat	489.8	2.1
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		489.9	2.1
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		490.0	2.3
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		490.1	2.4
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		491.8	4.1
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		492.3	4.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		494.9	7.1
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		495.3	7.6
	Treatment + Temperature + Week + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	**nbinom1**	**~0**	**Final**	**481.9**	
Ring-necked Duck	1 + (1 | Point)	nbinom1	~0	Family	2564.3	0.0
	1 + (1 | Point)	poisson	~0		5842.2	3278.0
	1 + (1 | Point)	nbinom1	~1	ZI	2552.5	0.0
	1 + (1 | Point)	nbinom1	~0		2564.3	11.8
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		2476.1	0.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		2478.6	2.5
	Treatment + Temperature + (1 | Point)	nbinom1	~1		2480.1	3.9
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		2481.5	5.4
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		2481.9	5.8
	Treatment + Wind + (1 | Point)	nbinom1	~1	Weather	2539.0	62.9
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		2551.1	74.9
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		2551.6	75.5
	Treatment + Humidity + (1 | Point)	nbinom1	~1		2553.2	77.1
	Treatment + (1 | Point)	nbinom1	~1		2553.3	77.2
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	2397.4	0.0
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		2398.6	1.2

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		2400.1	2.7
	Treatment + Week + (1 | Point)	nbinom1	~1		2400.6	3.2
	Treatment + Year + (1 | Point)	nbinom1	~1		2553.2	155.7
	Treatment + (1 | Point)	nbinom1	~1		2553.3	155.9
	Treatment + (1 | Point)	nbinom1	~1		2553.3	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~1	Location	2553.6	0.3
	Treatment + Easting + (1 | Point)	nbinom1	~1		2554.3	1.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		2555.6	2.2
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		2534.7	0.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		2537.9	3.2
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		2540.0	5.3
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		2540.9	6.2
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2541.2	6.5
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		2541.9	7.2
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2542.9	8.2
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1	Habitat	2543.7	9.0
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2548.1	13.4
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2548.4	13.7
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		2548.9	14.2
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		2549.4	14.7
	Treatment + (1 | Point)	nbinom1	~1		2553.3	18.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		2556.5	21.8
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		2557.2	22.5
	Treatment + Temperature + Humidity + Week + Year + Disturbedloc + Treedloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**2375.1**	
Ruby-crowned Kinglet	1 + (1 | Point)	nbinom1	~0	Family	15105.8	0.0
	1 + (1 | Point)	poisson	~0		163798.2	148692.5
	1 + (1 | Point)	nbinom1	~1	ZI	15091.6	0.0
	1 + (1 | Point)	nbinom1	~0		15105.8	14.2
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		14829.3	0.0
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		14830.1	0.7
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		14834.0	4.7
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1	Weather	14840.6	11.2
	Treatment + Temperature + (1 | Point)	nbinom1	~1		14862.1	32.7
	Treatment + (1 | Point)	nbinom1	~1		15093.5	264.2
	Treatment + Wind + (1 | Point)	nbinom1	~1		15126.6	297.2

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		15143.2	313.9
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		15149.8	320.4
	Treatment + Humidity + (1 | Point)	nbinom1	~1		15183.0	353.6
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1	Time	14426.9	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		14427.7	0.8
	Treatment + Week + (1 | Point)	nbinom1	~1		14439.0	12.1
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		14440.4	13.5
	Treatment + (1 | Point)	nbinom1	~1		15093.5	666.6
	Treatment + Year + (1 | Point)	nbinom1	~1		15095.5	668.6
	Treatment + (1 | Point)	nbinom1	~1	Location	15093.5	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~1		15095.4	1.9
	Treatment + Northing + (1 | Point)	nbinom1	~1		15095.5	2.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		15097.4	3.9
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1	Habitat	15075.6	0.0
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		15075.6	0.0
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		15079.4	3.8
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		15079.4	3.8
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		15080.2	4.6
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		15080.9	5.4
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		15081.1	5.5
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		15085.0	9.5
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		15085.2	9.6
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		15086.3	10.7
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		15087.6	12.0
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		15088.3	12.7
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		15088.9	13.4
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		15091.3	15.7
	Treatment + (1 | Point)	nbinom1	~1		15093.5	18.0
	Treatment + Temperature + log(Precipitation) + Week +Week^2 + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**14335.5**	
Sandhill Crane	1 + (1 | Point)	nbinom1	~0	Family	3874.7	0.0
	1 + (1 | Point)	poisson	~0		22485.7	18611.0
	1 + (1 | Point)	nbinom1	~1	ZI	3863.3	0.0
	1 + (1 | Point)	nbinom1	~0		3874.7	11.4
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1	Weather	3807.4	0.0

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		3808.1	0.7
	Treatment + Temperature + (1 | Point)	nbinom1	~1		3813.3	5.9
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		3813.8	6.4
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		3815.3	7.9
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		3854.8	47.5
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		3855.6	48.2
	Treatment + Wind + (1 | Point)	nbinom1	~1		3862.0	54.6
	Treatment + (1 | Point)	nbinom1	~1		3865.0	57.7
	Treatment + Humidity + (1 | Point)	nbinom1	~1		3867.0	59.7
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	3765.4	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		3771.0	5.6
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		3805.0	39.6
	Treatment + Week + (1 | Point)	nbinom1	~1		3816.9	51.5
	Treatment + Year + (1 | Point)	nbinom1	~1		3856.9	91.5
	Treatment + (1 | Point)	nbinom1	~1		3865.0	99.7
	Treatment + (1 | Point)	nbinom1	~1	Location	3865.0	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~1		3866.9	1.8
	Treatment + Northing + (1 | Point)	nbinom1	~1		3866.9	1.9
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		3868.2	3.2
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1	Habitat	3854.0	0.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3858.2	4.2
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		3859.2	5.3
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		3859.3	5.3
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3862.7	8.7
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3863.9	9.9
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		3864.2	10.2
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		3864.2	10.3
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		3864.8	10.8
	Treatment + (1 | Point)	nbinom1	~1		3865.0	11.1
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		3865.5	11.6
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		3865.7	11.7
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		3866.4	12.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		3868.4	14.4
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		3868.5	14.5
	Treatment + Temperature + log(Precipitation) + Week +Week^2 + Year + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	**nbinom1**	**~1**	**Final**	**3739.4**	

Species	Model	Family	ZI	Test	AICc	Delta AICc
Savannah Sparrow	1 + (1 | Point)	nbinom1	~0	Family	4347.2	0.0
	1 + (1 | Point)	poisson	~0		30841.8	26494.6
	1 + (1 | Point)	nbinom1	~1	ZI	4276.2	0.0
	1 + (1 | Point)	nbinom1	~0		4347.2	71.0
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1	Weather	4270.4	0.0
	Treatment + Wind + (1 | Point)	nbinom1	~1		4272.1	1.7
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		4272.2	1.9
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		4272.7	2.3
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		4274.1	3.7
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		4274.6	4.2
	Treatment + (1 | Point)	nbinom1	~1		4278.2	7.9
	Treatment + Temperature + (1 | Point)	nbinom1	~1		4279.9	9.6
	Treatment + Humidity + (1 | Point)	nbinom1	~1		4280.1	9.8
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		4281.8	11.4
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1	Time	4245.6	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		4248.7	3.1
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		4260.7	15.1
	Treatment + Week + (1 | Point)	nbinom1	~1		4262.8	17.1
	Treatment + Year + (1 | Point)	nbinom1	~1		4276.6	31.0
	Treatment + (1 | Point)	nbinom1	~1		4278.2	32.6
	Treatment + (1 | Point)	nbinom1	~1	Location	4278.2	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		4278.5	0.3
	Treatment + Northing + (1 | Point)	nbinom1	~1		4278.7	0.5
	Treatment + Easting + (1 | Point)	nbinom1	~1		4280.1	1.9
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1	Habitat	4248.1	0.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		4250.1	2.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		4251.9	3.8
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		4252.9	4.8
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		4253.0	5.0
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		4253.1	5.0
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		4255.4	7.4
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		4255.8	7.7
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		4267.3	19.3
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		4270.2	22.2
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		4273.9	25.8

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		4274.4	26.3
	Treatment + (1 | Point)	nbinom1	~1		4278.2	30.2
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		4278.3	30.2
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		4279.6	31.5
	Treatment + log(Precipitation) + Week +Week^2 + Year + Wetlandloc + Riparianloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**4209.1**	
Sedge Wren	1 + (1 | Point)	nbinom1	~0	Family	550.3	0.0
	1 + (1 | Point)	poisson	~0		2014.3	1464.0
	1 + (1 | Point)	nbinom1	~0	ZI	550.3	0.0
	1 + (1 | Point)	nbinom1	~1		552.3	2.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0	Weather	549.2	0.0
	Treatment + Wind + (1 | Point)	nbinom1	~0		550.5	1.3
	Treatment + Temperature + (1 | Point)	nbinom1	~0		551.0	1.8
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		551.2	2.0
	Treatment + (1 | Point)	nbinom1	~0		552.2	3.0
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		552.3	3.1
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		552.6	3.4
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		553.0	3.8
	Treatment + Humidity + (1 | Point)	nbinom1	~0		553.3	4.1
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		553.5	4.3
	Treatment + Week + Year + Days to Full Moon + (1 | Point)	nbinom1	~0	Time	531.6	0.0
	Treatment + Week +Week^2 + Year + Days to Full Moon + (1 | Point)	nbinom1	~0		533.5	1.9
	Treatment + Week + Days to Full Moon + (1 | Point)	nbinom1	~0		534.3	2.7
	Treatment + Week +Week^2 + Days to Full Moon + (1 | Point)	nbinom1	~0		536.3	4.7
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		542.8	11.2
	Treatment + Year + Days to Full Moon + (1 | Point)	nbinom1	~0		543.6	12.0
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		543.7	12.1
	Treatment + Days to Full Moon + (1 | Point)	nbinom1	~0		544.4	12.8
	Treatment + Week + (1 | Point)	nbinom1	~0		545.2	13.6
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		545.4	13.8
	Treatment + Year + (1 | Point)	nbinom1	~0		551.6	20.0
	Treatment + (1 | Point)	nbinom1	~0		552.2	20.6
	Treatment + Northing + (1 | Point)	nbinom1	~0	Location	551.8	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		551.9	0.2
	Treatment + (1 | Point)	nbinom1	~0		552.2	0.4
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		553.3	1.6

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0	Habitat	544.8	0.0
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		547.1	2.3
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		547.9	3.1
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		548.7	3.9
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		551.5	6.7
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		551.5	6.7
	Treatment + (1 | Point)	nbinom1	~0		552.2	7.4
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		552.2	7.4
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		552.2	7.4
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		553.9	9.0
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		554.1	9.3
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		554.3	9.4
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		554.3	9.5
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		555.6	10.8
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		555.8	10.9
	Treatment + Wind + Week + Year + Days to Full Moon + Treedloc + Distance to Water + (1 | Point)	**nbinom1**	**~0**	**Final**	**527.5**	
Solitary Sandpiper	1 + (1 | Point)	nbinom1	~0	Family	3635.0	0.0
	1 + (1 | Point)	poisson	~0		15270.0	11635.0
	1 + (1 | Point)	nbinom1	~0	ZI	3635.0	0.0
	1 + (1 | Point)	nbinom1	~1		3637.0	2.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0	Weather	3604.9	0.0
	Treatment + Temperature + (1 | Point)	nbinom1	~0		3607.8	2.9
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		3609.7	4.8
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		3609.8	4.9
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		3609.8	4.9
	Treatment + Wind + (1 | Point)	nbinom1	~0		3625.8	20.9
	Treatment + (1 | Point)	nbinom1	~0		3636.9	32.0
	Treatment + Humidity + (1 | Point)	nbinom1	~0		3638.4	33.5
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		3638.4	33.5
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		3638.7	33.8
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0	Time	3500.1	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		3514.2	14.0
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		3586.8	86.7
	Treatment + Week + (1 | Point)	nbinom1	~0		3613.2	113.1
	Treatment + Year + (1 | Point)	nbinom1	~0		3615.1	115.0

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + (1 | Point)	nbinom1	~0		3636.9	136.8
	Treatment + (1 | Point)	nbinom1	~0	Location	3636.9	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~0		3638.6	1.7
	Treatment + Easting + (1 | Point)	nbinom1	~0		3638.8	1.9
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		3639.8	2.9
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0	Habitat	3630.0	0.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3630.2	0.2
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		3630.8	0.9
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3630.8	0.9
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		3630.9	0.9
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3630.9	0.9
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		3632.0	2.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		3632.1	2.1
	Treatment + (1 | Point)	nbinom1	~0		3636.9	7.0
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		3637.2	7.2
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		3637.4	7.5
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		3640.4	10.5
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		3640.8	10.8
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		3640.9	11.0
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		3640.9	11.0
	Treatment + Temperature + Wind + Week +Week^2 + Year + Treedloc + Wetlandloc + (1 | Point)	**nbinom1**	**~0**	**Final**	**3493.0**	
Tennessee Warbler	1 + (1 | Point)	nbinom1	~0	Family	8722.2	0.0
	1 + (1 | Point)	poisson	~0		128736.2	120014.0
	1 + (1 | Point)	nbinom1	~1	ZI	8713.5	0.0
	1 + (1 | Point)	nbinom1	~0		8722.2	8.8
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1	Weather	8654.5	0.0
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		8657.9	3.4
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		8661.8	7.4
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		8679.1	24.7
	Treatment + Temperature + (1 | Point)	nbinom1	~1		8679.7	25.3
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		8702.8	48.4
	Treatment + Precipitation + (1 | Point)	nbinom1	~1		8705.0	50.5
	Treatment + Humidity + (1 | Point)	nbinom1	~1		8708.8	54.3
	Treatment + Wind + (1 | Point)	nbinom1	~1		8710.2	55.8
	Treatment + (1 | Point)	nbinom1	~1		8715.3	60.8

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1	Time	8499.9	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		8500.6	0.7
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		8710.7	210.8
	Treatment + Week + (1 | Point)	nbinom1	~1		8712.9	213.0
	Treatment + Year + (1 | Point)	nbinom1	~1		8713.8	213.9
	Treatment + (1 | Point)	nbinom1	~1		8715.3	215.4
	Treatment + Easting + (1 | Point)	nbinom1	~1	Location	8713.6	0.0
	Treatment + (1 | Point)	nbinom1	~1		8715.3	1.7
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		8715.6	2.0
	Treatment + Northing + (1 | Point)	nbinom1	~1		8716.0	2.4
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1	Habitat	8709.6	0.0
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		8712.7	3.1
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		8712.8	3.2
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		8713.5	3.9
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		8715.0	5.4
	Treatment + (1 | Point)	nbinom1	~1		8715.3	5.7
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		8715.3	5.7
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		8716.4	6.8
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		8716.7	7.2
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		8717.2	7.6
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		8717.3	7.7
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		8717.9	8.3
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		8718.3	8.7
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		8718.4	8.8
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		8718.4	8.8
	Treatment + Temperature + log(Precipitation) + Week +Week^2 + Wetlandloc + Riparianloc + (1 | Point)	**nbinom1**	**~1**	**Final**		
Tree Swallow	1 + (1 | Point)	nbinom1	~0	Family	2680.3	0.0
	1 + (1 | Point)	poisson	~0		10967.9	8287.6
	1 + (1 | Point)	nbinom1	~0	ZI	2680.3	0.0
	1 + (1 | Point)	nbinom1	~1		2682.3	2.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0	Weather	2659.2	0.0
	Treatment + Wind + (1 | Point)	nbinom1	~0		2663.4	4.2
	Treatment + Humidity + (1 | Point)	nbinom1	~0		2665.9	6.8
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		2667.9	8.8
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		2672.2	13.0

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		2672.8	13.6
	Treatment + (1 | Point)	nbinom1	~0		2675.6	16.5
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		2676.4	17.3
	Treatment + Temperature + (1 | Point)	nbinom1	~0		2676.8	17.6
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		2677.3	18.2
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	2588.3	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		2589.4	1.1
	Treatment + Year + (1 | Point)	nbinom1	~0		2673.3	85.0
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		2674.7	86.4
	Treatment + (1 | Point)	nbinom1	~0		2675.6	87.4
	Treatment + Week + (1 | Point)	nbinom1	~0		2677.2	88.9
	Treatment + (1 | Point)	nbinom1	~0	Location	2675.6	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		2677.2	1.6
	Treatment + Northing + (1 | Point)	nbinom1	~0		2677.6	2.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		2678.6	3.0
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0	Habitat	2673.3	0.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		2673.3	0.0
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2673.5	0.2
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		2673.5	0.2
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		2674.8	1.5
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2675.5	2.2
	Treatment + (1 | Point)	nbinom1	~0		2675.6	2.3
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2675.7	2.3
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		2675.7	2.4
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		2678.2	4.9
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		2678.4	5.1
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		2678.6	5.3
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		2678.7	5.4
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		2681.0	7.7
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		2681.4	8.1
	Treatment + Temperature + Wind + Week +Week^2 + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	**nbinom1**	**~0**	**Final**	**2564.3**	
Vesper Sparrow	1 + (1 | Point)	nbinom1	~0	Family	988.3	0.0
	1 + (1 | Point)	poisson	~0		3085.9	2097.6
	1 + (1 | Point)	nbinom1	~0	ZI	988.3	0.0
	1 + (1 | Point)	nbinom1	~1		994.2	5.9

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0	Weather	989.8	0.0
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		989.9	0.1
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0		990.0	0.2
	Treatment + Temperature + (1 | Point)	nbinom1	~0		990.0	0.3
	Treatment + (1 | Point)	nbinom1	~0		990.3	0.5
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		990.6	0.8
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		990.7	0.9
	Treatment + Humidity + (1 | Point)	nbinom1	~0		991.4	1.6
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		992.0	2.2
	Treatment + Wind + (1 | Point)	nbinom1	~0		992.2	2.4
	Treatment + Week + (1 | Point)	nbinom1	~0	Time	976.4	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		978.3	1.9
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		978.4	2.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		980.3	3.9
	Treatment + (1 | Point)	nbinom1	~0		990.3	13.8
	Treatment + Year + (1 | Point)	nbinom1	~0		992.3	15.8
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0	Location	989.9	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		990.0	0.1
	Treatment + (1 | Point)	nbinom1	~0		990.3	0.3
	Treatment + Northing + (1 | Point)	nbinom1	~0		992.3	2.4
	Treatment + (1 | Point)	nbinom1	~0	Habitat	990.3	0.0
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		990.3	0.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		990.6	0.4
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		991.4	1.2
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		992.0	1.7
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		992.5	2.3
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		992.6	2.4
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		992.8	2.6
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		993.1	2.8
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		993.4	3.1
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		993.4	3.1
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		993.6	3.4
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		993.7	3.5
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		994.0	3.7
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		994.0	3.8

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Week + (1 | Point)	**nbinom1**	**~0**	**Final**	**976.4**	
White-winged Crossbill	1 + (1 | Point)	nbinom1	~0	Family	5500.5	0.0
	1 + (1 | Point)	poisson	~0		9149.0	3648.5
	1 + (1 | Point)	nbinom1	~0	ZI	5500.5	0.0
	1 + (1 | Point)	nbinom1	~1		5502.3	1.8
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0	Weather	5453.8	0.0
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		5457.5	3.7
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		5463.1	9.3
	Treatment + Wind + (1 | Point)	nbinom1	~0		5464.3	10.5
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~0		5466.4	12.6
	Treatment + Precipitation + (1 | Point)	nbinom1	~0		5470.8	17.0
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		5481.3	27.5
	Treatment + Temperature + (1 | Point)	nbinom1	~0		5491.4	37.6
	Treatment + Humidity + (1 | Point)	nbinom1	~0		5496.6	42.8
	Treatment + (1 | Point)	nbinom1	~0		5502.5	48.7
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0	Time	5428.2	0.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0		5433.6	5.4
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		5496.2	68.0
	Treatment + Year + (1 | Point)	nbinom1	~0		5498.8	70.6
	Treatment + Week + (1 | Point)	nbinom1	~0		5498.8	70.6
	Treatment + (1 | Point)	nbinom1	~0		5502.5	74.4
	Treatment + (1 | Point)	nbinom1	~0	Location	5502.5	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		5504.5	1.9
	Treatment + Northing + (1 | Point)	nbinom1	~0		5504.5	2.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		5506.5	3.9
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0	Habitat	5489.3	0.0
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		5489.4	0.1
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		5491.9	2.6
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		5495.2	5.9
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		5499.5	10.2
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		5501.6	12.3
	Treatment + (1 | Point)	nbinom1	~0		5502.5	13.2
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		5502.8	13.5
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		5503.8	14.5
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		5504.7	15.4

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		5505.2	15.9
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		5505.7	16.3
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		5505.9	16.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		5508.0	18.7
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		5508.2	18.9
	Treatment + Temperature + log(Precipitation) + Week +Week^2 + Year + Treedloc + Distance to Water + (1 | Point)	**nbinom1**	**~0**	**Final**	**5332.4**	
Wilson's Warbler	1 + (1 | Point)	nbinom1	~0	Family	5967.0	0.0
	1 + (1 | Point)	poisson	~0		15207.7	9240.7
	1 + (1 | Point)	nbinom1	~0	ZI	5967.0	0.0
	1 + (1 | Point)	nbinom1	~1		5969.0	2.0
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~0	Weather	5898.4	0.0
	Treatment + Temperature + Prec + (1 | Point)	nbinom1	~0		5910.1	11.7
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~0		5913.0	14.6
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~0		5921.0	22.6
	Treatment + Prec + (1 | Point)	nbinom1	~0		5926.2	27.8
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~0		5927.3	28.9
	Treatment + Wind + (1 | Point)	nbinom1	~0		5939.3	41.0
	Treatment + Temperature + (1 | Point)	nbinom1	~0		5943.1	44.7
	Treatment + Humidity + (1 | Point)	nbinom1	~0		5957.8	59.4
	Treatment + (1 | Point)	nbinom1	~0		5968.9	70.5
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~0	Time	5860.0	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~0		5861.8	1.8
	Treatment + Week + Year + (1 | Point)	nbinom1	~0		5937.1	77.1
	Treatment + Week + (1 | Point)	nbinom1	~0		5937.5	77.4
	Treatment + Year + (1 | Point)	nbinom1	~0		5966.4	106.4
	Treatment + (1 | Point)	nbinom1	~0		5968.9	108.9
	Treatment + (1 | Point)	nbinom1	~0	Location	5968.9	0.0
	Treatment + Easting + (1 | Point)	nbinom1	~0		5970.1	1.2
	Treatment + Northing + (1 | Point)	nbinom1	~0		5970.7	1.8
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~0		5972.1	3.2
	Treatment + (1 | Point)	nbinom1	~0	Habitat	5968.9	0.0
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0		5969.3	0.4
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~0		5969.8	0.9
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~0		5969.8	0.9
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~0		5970.4	1.5

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0		5970.6	1.6
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~0		5971.5	2.6
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0		5971.6	2.7
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0		5971.7	2.8
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		5971.7	2.8
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0		5972.2	3.3
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0		5972.8	3.9
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0		5972.9	4.0
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~0		5973.1	4.2
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~0		5973.2	4.3
	Treatment + Temperature + log(Precipitation) + Week +Week^2 + (1 | Point)	**nbinom1**	**~0**	**Final**	**5790.1**	
Winter Wren	1 + (1 | Point)	nbinom1	~0	Family	19399.8	0.0
	1 + (1 | Point)	poisson	~0		220430.7	201030.9
	1 + (1 | Point)	nbinom1	~1	ZI	19313.3	0.0
	1 + (1 | Point)	nbinom1	~0		19399.8	86.5
	Treatment + (1 | Point)	nbinom1	~1	Weather	19283.6	
	Treatment + Temperature + (1 | Point)	nbinom1	~1		19285.4	
	Treatment + Wind + (1 | Point)	nbinom1	~1		19233.1	
	Treatment + Humidity + (1 | Point)	nbinom1	~1		19285.5	
	Treatment + Prec + (1 | Point)	nbinom1	~1		19230.7	
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		19230.3	
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		19287.3	
	Treatment + Temperature + Prec + (1 | Point)	nbinom1	~1			
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		19217.7	
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		19218.3	
	Treatment + (1 | Point)	nbinom1	~1	Time	19283.6	0.0
	Treatment + Week + (1 | Point)	nbinom1	~1		19284.8	1.2
	Treatment + Year + (1 | Point)	nbinom1	~1		19285.4	1.8
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		19286.6	3.0
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1		19286.7	3.1
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		19288.5	4.9
	Treatment + Northing + (1 | Point)	nbinom1	~1	Location	19279.5	0.0
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		19281.5	2.0
	Treatment + Easting + (1 | Point)	nbinom1	~1		19282.7	3.2
	Treatment + (1 | Point)	nbinom1	~1		19283.6	4.1

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1	Habitat	19277.7	0.0
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1		19278.2	0.6
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		19278.4	0.8
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		19278.4	0.8
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		19278.7	1.1
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		19279.3	1.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		19279.7	2.0
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		19280.6	3.0
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		19281.5	3.9
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		19282.7	5.0
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		19282.8	5.2
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		19282.8	5.2
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		19283.2	5.5
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		19283.3	5.6
	Treatment + (1 | Point)	nbinom1	~1		19283.6	5.9
	Treatment + Northing + Disturbedloc + Treedloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**19271.0**	
Yellow-bellied Flycatcher	1 + (1 | Point)	nbinom1	~0	Family	9688.5	0.0
	1 + (1 | Point)	poisson	~0		50121.4	40432.9
	1 + (1 | Point)	nbinom1	~1	ZI	9685.4	0.0
	1 + (1 | Point)	nbinom1	~0		9688.5	3.1
	Treatment + Wind + (1 | Point)	nbinom1	~1	Weather	9651.4	0.0
	Treatment + Temperature + Wind + (1 | Point)	nbinom1	~1		9652.9	1.5
	Treatment + log(Precipitation) + (1 | Point)	nbinom1	~1		9679.0	27.6
	Treatment + Prec + (1 | Point)	nbinom1	~1		9680.1	28.6
	Treatment + Temperature + log(Precipitation) + (1 | Point)	nbinom1	~1		9680.7	29.3
	Treatment + Temperature + Precipitation + (1 | Point)	nbinom1	~1		9681.7	30.3
	Treatment + (1 | Point)	nbinom1	~1		9687.3	35.9
	Treatment + Temperature + (1 | Point)	nbinom1	~1		9687.9	36.5
	Treatment + Humidity + (1 | Point)	nbinom1	~1		9688.9	37.5
	Treatment + Temperature + Humidity + (1 | Point)	nbinom1	~1		9689.0	37.6
	Treatment + Week +Week^2 + (1 | Point)	nbinom1	~1	Time	9500.8	0.0
	Treatment + Week +Week^2 + Year + (1 | Point)	nbinom1	~1		9502.5	1.7
	Treatment + Week + (1 | Point)	nbinom1	~1		9681.9	181.0
	Treatment + Week + Year + (1 | Point)	nbinom1	~1		9682.1	181.3
	Treatment + Year + (1 | Point)	nbinom1	~1		9686.8	186.0

Species	Model	Family	ZI	Test	AICc	Delta AICc
	Treatment + (1 | Point)	nbinom1	~1		9687.3	186.5
	Treatment + (1 | Point)	nbinom1	~1	Location	9687.3	0.0
	Treatment + Northing + (1 | Point)	nbinom1	~1		9688.2	0.9
	Treatment + Easting + (1 | Point)	nbinom1	~1		9689.2	1.8
	Treatment + Easting + Northing + (1 | Point)	nbinom1	~1		9690.1	2.8
	Treatment + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1	Habitat	9681.9	0.0
	Treatment + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1		9682.2	0.3
	Treatment + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		9682.3	0.4
	Treatment + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1		9682.5	0.5
	Treatment + Treedloc + Distance to Water + (1 | Point)	nbinom1	~1		9682.7	0.8
	Treatment + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1		9685.0	3.1
	Treatment + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1		9685.9	4.0
	Treatment + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~1		9686.2	4.3
	Treatment + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1		9686.2	4.3
	Treatment + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1		9686.3	4.4
	Treatment + (1 | Point)	nbinom1	~1		9687.3	5.4
	Treatment + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1		9688.0	6.0
	Treatment + log(Deciduous Mixedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1		9688.1	6.2
	Treatment + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1		9688.5	6.6
	Treatment + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1		9688.9	7.0
	Treatment + Wind + Week +Week^2 + log(Disturbedloc) + Treedloc + (1 | Point)	**nbinom1**	**~1**	**Final**	**9456.9**	

Table 5. Results from diagnostic tests to evaluate the goodness-of-fit (GOF) of the best-fitting acoustic activity models from avian ARU data. Tests for normality and homogeneity of variances of residuals (Residuals test), zero inflation, and presence of outliers were conducted with R package "DHARMa" (Hartig 2019). Model fit was evaluated based on adjusted p-values (at α=0.01). "Family" specifies the specific distribution family used and "ZI" specifies whether a zero-inflation term (~1) is used, as determined through the hierarchical modelling process.

Species	Model	Family	ZI	Residuals test	Zero Inflation test	Outlier test
Alder Flycatcher	Treatment + Temperature + Wind + Week + Week^2 + Year + Easting + Treedloc + log(Distance to Water) + (1 | Point)	nbinom1	~1	<0.001	0.192	0.200
American Crow	Treatment + Temperature + Wind + Week + Week^2 + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0	<0.001	0.856	0.400
American Kestrel	Treatment + +(1 | Point)	nbinom1	~1	-	0.840	0.140
American Robin	Treatment + Precipitation + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0	0.108	>0.999	<0.001
Bay-breasted Warbler	Treatment + log(Precipitation) + Week + Week^2 + Year + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0	0.015	0.672	0.480
Belted Kingfisher	Treatment + Temperature + Precipitation + Week + Week^2 + Year + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1	0.948	0.864	0.280
Black-and-white Warbler	Treatment + Temperature + Wind + Week + Week^2 + (1 | Point)	nbinom1	~1	0.998	0.944	0.080
Blackburnian Warbler	Treatment + Temperature + Wind + Week + Week^2 + Easting + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1	0.674	0.936	0.040
Blue-headed Vireo	Treatment + Wind + Week + Week^2 + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1	0.025	0.712	0.640
Bonaparte's Gull	Treatment + Temperature + Wind + Week + Week^2 + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0	0.003	0.736	0.720
Boreal Chickadee	Treatment + Temperature + Wind + Week + Week^2 + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~0	0.206	0.992	0.900
Canada Goose	Treatment + Temperature + Precipitation + Week + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1	0.588	0.920	0.480
Canada Jay	Treatment + Wind + Week + Week^2 + (1 | Point)	nbinom1	~0	0.166	0.456	0.280
Cedar Waxwing	Treatment + Temperature + log(Precipitation) + Week + Week^2 + Year + Easting + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1	<0.001	0.752	0.080
Chipping Sparrow	Treatment + Temperature + Wind + Week + Week^2 + Year + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~1	<0.001	0.320	0.500
Common Loon	Treatment + Temperature + Wind + Week + Week^2 + Days to Full Moon + Northing + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1	0.477	0.912	0.380
Common Nighthawk	Treatment + Temperature + Wind + Week + Week^2 + Year + Days to Full Moon + Easting + Northing + Disturbedloc + Wetlandloc + (1 | Point)	nbinom1	~1	<0.001	0.376	0.160
Common Raven	Treatment + Temperature + Wind + Week + Week^2 + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0	0.318	0.968	0.860
Common Tern	Treatment + Wind + Week + Week^2 + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~0	0.001	0.448	0.200
Common Yellowthroat	Treatment + Temperature + log(Precipitation) + Week + Week^2 + Deciduous Mixedloc + Wetlandloc + (1 | Point)	nbinom1	~1	0.017	0.432	0.760
Connecticut Warbler	Treatment + Precipitation + Week + Week^2 + Year + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0	0.047	0.728	0.360
Dark-eyed Junco	Treatment + Temperature + log(Precipitation) + Week + Week^2 + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0	<0.001	0.592	>0.999
Downy Woodpecker	Treatment + Temperature + Week + (1 | Point)	nbinom1	~0	0.623	>0.999	<0.001
Eastern Whip-poor-will	Treatment + Humidity + Year + Days to Full Moon + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0	0.311	0.664	0.080
Greater Yellowlegs	Treatment + Temperature + Week + Week^2 + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0	<0.001	0.552	0.800
Least Flycatcher	Treatment + Week + Week^2 + Coniferousloc + log(Deciduous Mixedloc) + MatureForestloc + (1 | Point)	nbinom1	~1	<0.001	0.632	0.880
Lincoln's Sparrow	Treatment + Easting + Treedloc + log(Wetlandloc) + (1 | Point)	nbinom1	~1	<0.001	0.280	0.880
Magnolia Warbler	Treatment + log(Precipitation) + Week + Week^2 + Year + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1	<0.001	0.952	0.540
Mallard	Treatment + Temperature + Humidity + Week + Week^2 + Year + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~0	0.267	0.616	<0.001
Mourning Warbler	Treatment + Wind + Week + Week^2 + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1	<0.001	0.800	0.440
Nashville Warbler	Treatment + Week + Week^2 + Year + Northing + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1	<0.001	0.400	<0.001
Northern Flicker	Treatment + Temperature + Precipitation + Week + Week^2 + Easting + log(Disturbedloc)+ Treedloc + (1 | Point)	nbinom1	~0	0.138	0.840	0.280
Northern Waterthrush	Treatment + Temperature + Week + Week^2 + Year + (1 | Point)	nbinom1	~1	0.133	0.800	0.160

Olive-sided Flycatcher	Treatment + log(Precipitation) + Week + Week^2 + Easting + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0	<0.001	0.896	0.660
Ovenbird	Treatment + Wind + Week + Year + Easting + (1 | Point)	nbinom1	~0	0.641	0.232	0.540
Philadelphia Vireo	Treatment + Temperature + Wind + Week + Week^2 + Year + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0	0.575	0.368	0.220
Pine Siskin	Treatment + Temperature + log(Precipitation) + Week + Year + Northing + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1	0.051	0.672	0.900
Red-breasted Nuthatch	Treatment + Temperature + log(Precipitation) + Easting + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1	0.840	0.848	0.100
Red-winged Blackbird	Treatment + log(Precipitation) + Week + Week^2 + (1 | Point)	nbinom1	~0	<0.001	<0.001	0.960
Ring-billed Gull	Treatment + Temperature + Week + log(Wetlandloc) + log(Riparianloc) + (1 | Point)	nbinom1	~0	0.005	0.976	0.300
Ring-necked Duck	Treatment + Temperature + Humidity + Week + Year + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1	0.906	0.704	0.340
Ruby-crowned Kinglet	Treatment + Temperature + log(Precipitation) + Week + Week^2 + Coniferousloc + Deciduous Mixedloc + MatureForestloc + (1 | Point)	nbinom1	~1	<0.001	0.576	0.240
Sandhill Crane	Treatment + Temperature + log(Precipitation) + Week + Week^2 + Year + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~1	0.116	0.920	0.040
Savannah Sparrow	Treatment + log(Precipitation) + Week + Week^2 + Year + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1	<0.001	0.616	0.200
Sedge Wren	Treatment + Wind + Week + Year + Days to Full Moon + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0	0.469	0.824	0.080
Solitary Sandpiper	Treatment + Temperature + Wind + Week + Week^2 + Year + Treedloc + Wetlandloc + (1 | Point)	nbinom1	~0	0.460	0.848	<0.001
Tennessee Warbler	Treatment + Temperature + log(Precipitation) + Week + Week^2 + Wetlandloc + Riparianloc + (1 | Point)	nbinom1	~1	0.812	0.944	0.560
Tree Swallow	Treatment + Temperature + Wind + Week + Week^2 + log(Disturbedloc) + log(Wetlandloc) + (1 | Point)	nbinom1	~0	0.001	0.448	0.160
Vesper Sparrow	Treatment + Week + (1 | Point)	nbinom1	~0	0.538	0.456	>0.999
White-winged Crossbill	Treatment + Temperature + log(Precipitation) + Week + Week^2 + Year + Treedloc + Distance to Water + (1 | Point)	nbinom1	~0	0.003	0.712	0.440
Wilson's Warbler	Treatment + Temperature + log(Precipitation) + Week + Week^2 + (1 | Point)	nbinom1	~0	0.071	0.784	>0.999
Winter Wren	Treatment + Northing + Disturbedloc + Treedloc + (1 | Point)	nbinom1	~1	<0.001	0.136	0.800
Yellow-bellied Flycatcher	Treatment + Wind + Week + Week^2 + log(Disturbedloc) + Treedloc + (1 | Point)	nbinom1	~1	<0.001	0.736	>0.999

Table 6. Coefficient results from the top acoustic activity model from ARU data for each bird species.

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
Alder Flycatcher	(Intercept)	2.65	0.43	6.22	<0.001
	Treatment (Out LSA)	-0.17	0.55	-0.32	0.751
	Temperature	0.00	0.04	-0.05	0.959
	Wind	-0.07	0.03	-2.29	0.022
	Week	49.70	3.08	16.15	<0.001
	$Week^2$	-47.13	2.52	-18.71	<0.001
	Year (2022)	-1.18	0.19	-6.37	<0.001
	Easting	-0.56	0.29	-1.92	0.054
	Treedloc	-0.43	0.28	-1.52	0.127
	log(Distance to Water)	-0.92	0.30	-3.11	0.002
American Crow	(Intercept)	-3.25	0.37	-8.92	<0.001
	Treatment (Out LSA)	0.85	0.43	1.96	0.050
	Temperature	-0.18	0.09	-2.06	0.040
	Wind	-0.31	0.07	-4.28	<0.001
	Week	7.61	6.44	1.18	0.237
	$Week^2$	14.13	4.76	2.97	0.003
	Disturbedloc	-1.34	0.37	-3.63	<0.001
	Treedloc	-0.30	0.33	-0.88	0.377
American Kestrel	(Intercept)	-3.28	1.27	-2.58	0.010
	Treatment (Out LSA)	-1.03	0.87	-1.18	0.238
American Robin	(Intercept)	-3.16	0.27	-11.52	<0.001
	Treatment (Out LSA)	0.82	0.32	2.58	0.010
	Precipitation	-0.25	0.13	-1.91	0.056
	Disturbedloc	0.70	0.16	4.34	<0.001
	Wetlandloc	-0.28	0.21	-1.34	0.179
Bay-breasted Warbler	(Intercept)	0.08	0.43	0.18	0.857
	Treatment (Out LSA)	-0.10	0.35	-0.28	0.783
	log(Precipitation)	-0.40	0.09	-4.41	<0.001
	Week	6.17	4.77	1.29	0.196
	$Week^2$	-12.53	4.37	-2.87	0.004
	Year (2022)	-0.57	0.38	-1.52	0.129
	Disturbedloc	-0.66	0.18	-3.72	<0.001
	Wetlandloc	-0.44	0.20	-2.23	0.026
Belted Kingfisher	(Intercept)	-2.79	0.62	-4.49	<0.001
	Treatment (Out LSA)	-0.43	0.50	-0.86	0.392
	Temperature	-0.15	0.09	-1.65	0.099
	Precipitation	-0.33	0.12	-2.85	0.004
	Week	-55.92	8.52	-6.57	<0.001
	$Week^2$	-13.15	6.18	-2.13	0.033
	Year (2022)	1.46	0.51	2.86	0.004
	Disturbedloc	0.98	0.25	3.87	<0.001
	Wetlandloc	-0.03	0.29	-0.11	0.912
Black-and-white Warbler	(Intercept)	-2.37	0.32	-7.38	<0.001
	Treatment (Out LSA)	0.58	0.39	1.49	0.137
	Temperature	-0.27	0.09	-3.01	0.003
	Wind	-0.39	0.08	-4.67	<0.001
	Week	-17.92	7.63	-2.35	0.019
	$Week^2$	-40.61	7.27	-5.59	<0.001
Blackburnian Warbler	(Intercept)	-3.28	0.33	-9.91	<0.001

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
	Treatment (Out LSA)	-0.07	0.43	-0.16	0.872
	Temperature	0.07	0.09	0.86	0.392
	Wind	-0.42	0.08	-5.16	<0.001
	Week	-14.82	7.35	-2.02	0.044
	$Week^2$	-69.59	8.12	-8.57	<0.001
	Easting	-0.03	0.21	-0.13	0.894
	Coniferousloc	0.36	0.26	1.38	0.167
	log(Deciduous Mixedloc)	0.41	0.18	2.25	0.025
	MatureForestloc	0.49	0.28	1.77	0.076
Blue-headed Vireo	(Intercept)	0.27	0.29	0.92	0.357
	Treatment (Out LSA)	-0.08	0.37	-0.22	0.828
	Wind	-0.38	0.06	-6.37	<0.001
	Week	-6.90	5.08	-1.36	0.174
	$Week^2$	-36.57	5.00	-7.31	<0.001
	Disturbedloc	-0.64	0.20	-3.19	0.001
	Wetlandloc	-0.49	0.22	-2.27	0.023
Bonaparte's Gull	(Intercept)	-0.66	0.45	-1.48	0.139
	Treatment (Out LSA)	-0.60	0.58	-1.04	0.299
	Temperature	0.18	0.06	3.24	0.001
	Wind	-0.40	0.05	-8.54	<0.001
	Week	-16.40	4.27	-3.84	<0.001
	$Week^2$	-18.59	3.19	-5.82	<0.001
	Deciduous Mixedloc	-0.80	0.58	-1.37	0.170
	Wetlandloc	0.85	0.30	2.84	0.005
Boreal Chickadee	(Intercept)	-1.59	0.25	-6.30	<0.001
	Treatment (Out LSA)	-0.02	0.33	-0.05	0.964
	Temperature	-0.09	0.08	-1.08	0.281
	Wind	-0.28	0.07	-4.08	<0.001
	Week	-7.75	5.01	-1.55	0.122
	$Week^2$	33.85	3.57	9.49	<0.001
	Disturbedloc	-0.79	0.19	-4.28	<0.001
	Wetlandloc	-0.62	0.19	-3.25	0.001
Canada Goose	(Intercept)	-1.38	0.26	-5.20	<0.001
	Treatment (Out LSA)	0.70	0.28	2.50	0.013
	Temperature	-0.27	0.08	-3.24	0.001
	Precipitation	-0.82	0.28	-2.94	0.003
	Week	-0.96	0.11	-8.73	<0.001
	log(Wetlandloc)	0.46	0.15	3.17	0.002
	log(Riparianloc)	0.19	0.15	1.20	0.230
Canada Jay	(Intercept)	-1.90	0.20	-9.51	<0.001
	Treatment (Out LSA)	-0.64	0.27	-2.37	0.018
	Wind	-0.26	0.07	-3.53	<0.001
	Week	6.03	4.93	1.22	0.221
	$Week^2$	-11.17	4.64	-2.41	0.016
Cedar Waxwing	(Intercept)	1.09	0.21	5.07	<0.001
	Treatment (Out LSA)	0.03	0.19	0.15	0.878
	Temperature	-0.04	0.04	-0.94	0.349
	log(Precipitation)	-0.31	0.04	-8.37	<0.001
	Week	53.03	3.21	16.52	<0.001
	$Week^2$	-14.35	2.16	-6.66	<0.001

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
	Year (2022)	-0.34	0.19	-1.79	0.074
	Easting	0.19	0.09	2.18	0.030
	Deciduous Mixedloc	0.09	0.09	1.05	0.295
	Wetlandloc	-0.05	0.10	-0.48	0.632
Chipping Sparrow	(Intercept)	1.74	0.26	6.84	<0.001
	Treatment (Out LSA)	0.30	0.25	1.17	0.240
	Temperature	0.00	0.03	-0.01	0.990
	Wind	-0.24	0.03	-9.66	<0.001
	Week	-0.91	2.17	-0.42	0.674
	$Week^2$	-16.28	1.68	-9.68	<0.001
	Year (2022)	0.66	0.20	3.30	0.001
	log(Wetlandloc)	0.29	0.13	2.31	0.021
	log(Riparianloc)	-0.17	0.13	-1.31	0.190
Common Loon	(Intercept)	1.19	0.13	9.47	<0.001
	Treatment (Out LSA)	-0.13	0.18	-0.73	0.469
	Temperature	0.09	0.03	2.82	0.005
	Wind	-0.10	0.03	-3.85	<0.001
	Week	2.38	2.17	1.10	0.274
	$Week^2$	7.31	1.71	4.28	<0.001
	Days to Full Moon	-0.07	0.03	-2.40	0.017
	Northing	0.26	0.09	2.76	0.006
	Disturbedloc	-0.56	0.12	-4.66	<0.001
	Treedloc	-0.23	0.12	-1.88	0.060
Common Nighthawk	(Intercept)	3.27	0.23	14.28	<0.001
	Treatment (Out LSA)	-0.18	0.28	-0.64	0.523
	Temperature	0.30	0.03	10.55	<0.001
	Wind	-0.10	0.02	-4.35	<0.001
	Week	17.37	2.61	6.66	<0.001
	$Week^2$	-15.30	2.05	-7.46	<0.001
	Year (2022)	-0.52	0.14	-3.65	<0.001
	Days to Full Moon	0.03	0.02	1.10	0.272
	Easting	-0.37	0.18	-2.10	0.036
	Northing	-0.22	0.17	-1.26	0.209
	Disturbedloc	1.14	0.15	7.69	<0.001
	Wetlandloc	-0.21	0.17	-1.25	0.212
Common Raven	(Intercept)	-2.62	0.36	-7.23	<0.001
	Treatment (Out LSA)	0.72	0.41	1.74	0.082
	Temperature	-0.13	0.10	-1.36	0.173
	Wind	-0.24	0.08	-3.15	0.002
	Week	-19.59	6.22	-3.15	0.002
	$Week^2$	23.61	4.48	5.27	<0.001
	Treedloc	0.43	0.22	1.98	0.048
	Distance to Water	-0.72	0.37	-1.96	0.051
Common Tern	(Intercept)	-2.17	0.45	-4.79	<0.001
	Treatment (Out LSA)	-1.71	0.55	-3.10	0.002
	Wind	-0.24	0.11	-2.16	0.031
	Week	-6.93	8.11	-0.86	0.393
	$Week^2$	-20.47	7.36	-2.78	0.005
	Deciduous Mixedloc	-1.01	1.04	-0.97	0.330
	Wetlandloc	0.66	0.26	2.60	0.009

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
Common Yellowthroat	(Intercept)	-2.28	0.69	-3.30	0.001
	Treatment (Out LSA)	0.02	0.57	0.03	0.978
	Temperature	0.02	0.08	0.24	0.813
	log(Precipitation)	-0.19	0.07	-2.77	0.006
	Week	9.73	5.85	1.66	0.096
	$Week^2$	-38.90	4.57	-8.51	<0.001
	Deciduous Mixedloc	-3.35	2.37	-1.41	0.157
	Wetlandloc	0.19	0.30	0.63	0.530
Connecticut Warbler	(Intercept)	-4.78	1.22	-3.91	<0.001
	Treatment (Out LSA)	-0.48	0.75	-0.65	0.518
	Precipitation	-0.21	0.11	-1.93	0.053
	Week	-52.56	9.26	-5.68	<0.001
	$Week^2$	-82.41	9.95	-8.29	<0.001
	Year (2022)	2.81	1.07	2.62	0.009
	log(Wetlandloc)	0.77	0.37	2.09	0.037
	log(Riparianloc)	-0.53	0.34	-1.54	0.124
Dark-eyed Junco	(Intercept)	2.12	0.16	13.60	<0.001
	Treatment (Out LSA)	0.05	0.22	0.23	0.817
	Temperature	-0.13	0.03	-4.46	<0.001
	log(Precipitation)	-0.21	0.03	-8.04	<0.001
	Week	6.25	1.98	3.16	0.002
	$Week^2$	-10.15	1.45	-7.01	<0.001
	log(Wetlandloc)	0.44	0.11	3.90	<0.001
	log(Riparianloc)	-0.43	0.11	-3.81	<0.001
Downy Woodpecker	(Intercept)	-3.30	0.44	-7.44	<0.001
	Treatment (Out LSA)	0.09	0.44	0.21	0.837
	Temperature	-0.30	0.19	-1.55	0.120
	Week	-0.30	0.22	-1.34	0.182
Eastern Whip-poor-will	(Intercept)	-3.37	1.26	-2.67	0.008
	Treatment (Out LSA)	0.02	1.06	0.02	0.988
	Humidity	-0.46	0.10	-4.40	<0.001
	Year (2022)	-1.96	0.32	-6.19	<0.001
	Days to Full Moon	-0.16	0.11	-1.48	0.139
	Treedloc	-1.33	0.59	-2.25	0.025
	Wetlandloc	0.95	0.61	1.57	0.115
Greater Yellowlegs	(Intercept)	0.52	0.23	2.31	0.021
	Treatment (Out LSA)	0.12	0.30	0.41	0.681
	Temperature	-0.02	0.05	-0.33	0.741
	Week	-14.86	3.51	-4.24	<0.001
	$Week^2$	-5.68	2.71	-2.09	0.036
	log(Disturbedloc)	0.78	0.17	4.61	<0.001
	log(Wetlandloc)	0.88	0.18	5.02	<0.001
Least Flycatcher	(Intercept)	-1.96	0.68	-2.87	0.004
	Treatment (Out LSA)	0.49	0.81	0.60	0.548
	Week	29.58	5.65	5.23	<0.001
	$Week^2$	-41.03	6.28	-6.54	<0.001
	Coniferousloc	1.09	0.53	2.04	0.041
	log(Deciduous Mixedloc)	-0.19	0.45	-0.42	0.675
	MatureForestloc	-1.78	0.55	-3.25	0.001
Lincoln's Sparrow	(Intercept)	2.04	0.29	7.15	<0.001

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
	Treatment (Out LSA)	-0.26	0.41	-0.62	0.538
	Easting	-0.76	0.23	-3.33	0.001
	Treedloc	-0.41	0.23	-1.81	0.071
	log(Wetlandloc)	1.21	0.23	5.28	<0.001
Magnolia Warbler	(Intercept)	2.39	0.27	8.77	<0.001
	Treatment (Out LSA)	-1.45	0.33	-4.36	<0.001
	log(Precipitation)	-0.36	0.04	-9.45	<0.001
	Week	-13.74	2.62	-5.25	<0.001
	$Week^2$	-41.02	2.63	-15.57	<0.001
	Year (2022)	-0.53	0.17	-3.10	0.002
	log(Disturbedloc)	0.56	0.17	3.25	0.001
	log(Wetlandloc)	-0.14	0.18	-0.78	0.435
Mallard	(Intercept)	-2.41	0.49	-4.96	<0.001
	Treatment (Out LSA)	0.15	0.25	0.58	0.561
	Temperature	-0.24	0.07	-3.27	0.001
	Humidity	-0.11	0.06	-1.92	0.055
	Week	-38.71	6.84	-5.66	<0.001
	$Week^2$	15.82	4.29	3.69	<0.001
	Year (2022)	1.26	0.45	2.80	0.005
	Disturbedloc	-1.11	0.23	-4.86	<0.001
	Treedloc	-0.54	0.20	-2.65	0.008
Mourning Warbler	(Intercept)	-2.16	0.45	-4.77	<0.001
	Treatment (Out LSA)	0.55	0.52	1.05	0.292
	Wind	-0.30	0.06	-4.70	<0.001
	Week	-12.66	7.39	-1.71	0.087
	$Week^2$	-45.54	8.56	-5.32	<0.001
	Disturbedloc	1.37	0.36	3.81	<0.001
	Treedloc	0.32	0.34	0.93	0.351
Nashville Warbler	(Intercept)	3.73	0.21	17.64	<0.001
	Treatment (Out LSA)	0.06	0.22	0.25	0.800
	Week	11.14	2.26	4.94	<0.001
	$Week^2$	-84.33	2.47	-34.11	<0.001
	Year (2022)	-0.25	0.17	-1.45	0.146
	Northing	-0.19	0.11	-1.83	0.067
	Coniferousloc	0.08	0.14	0.60	0.549
	Deciduous Mixedloc	-0.05	0.10	-0.43	0.665
	MatureForestloc	0.23	0.14	1.70	0.089
Northern Flicker	(Intercept)	-1.21	0.19	-6.28	<0.001
	Treatment (Out LSA)	-0.22	0.23	-0.95	0.340
	Temperature	-0.02	0.07	-0.22	0.827
	Precipitation	-1.06	0.34	-3.12	0.002
	Week	-21.61	4.66	-4.63	<0.001
	$Week^2$	23.10	3.25	7.11	<0.001
	Easting	-0.11	0.12	-0.91	0.364
	log(Disturbedloc)	0.46	0.15	3.00	0.003
	Treedloc	-0.15	0.16	-0.96	0.336
Northern Waterthrush	(Intercept)	-0.92	0.80	-1.15	0.250
	Treatment (Out LSA)	-1.62	0.67	-2.43	0.015
	Temperature	-0.37	0.14	-2.67	0.008
	Week	0.56	10.73	0.05	0.959

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
	$Week^2$	20.71	7.53	2.75	0.006
	Year (2022)	-3.12	0.70	-4.43	<0.001
Olive-sided Flycatcher	(Intercept)	0.35	0.27	1.29	0.198
	Treatment (Out LSA)	-0.23	0.37	-0.61	0.541
	log(Precipitation)	-0.26	0.06	-4.37	<0.001
	Week	-1.99	4.16	-0.48	0.632
	$Week^2$	-27.33	4.21	-6.50	<0.001
	Easting	-0.65	0.20	-3.25	0.001
	log(Disturbedloc)	0.87	0.20	4.31	<0.001
	log(Wetlandloc)	0.31	0.21	1.49	0.138
Ovenbird	(Intercept)	-2.03	0.58	-3.52	<0.001
	Treatment (Out LSA)	0.95	0.50	1.91	0.057
	Wind	-0.22	0.06	-3.63	<0.001
	Week	-0.49	0.13	-3.81	<0.001
	Year (2022)	-1.48	0.49	-3.05	0.002
	Easting	0.58	0.22	2.70	0.007
Philadelphia Vireo	(Intercept)	-0.22	0.40	-0.55	0.580
	Treatment (Out LSA)	-0.30	0.42	-0.71	0.477
	Temperature	0.22	0.08	2.70	0.007
	Wind	-0.28	0.07	-3.78	<0.001
	Week	-2.77	7.24	-0.38	0.702
	$Week^2$	-42.13	7.56	-5.58	<0.001
	Year (2022)	-1.52	0.27	-5.62	<0.001
	log(Wetlandloc)	-0.56	0.22	-2.54	0.011
	log(Riparianloc)	0.32	0.23	1.43	0.152
Pine Siskin	(Intercept)	-0.70	0.30	-2.37	0.018
	Treatment (Out LSA)	-0.31	0.24	-1.32	0.187
	Temperature	0.04	0.06	0.65	0.516
	log(Precipitation)	-0.45	0.08	-5.64	<0.001
	Week	0.74	0.08	9.54	<0.001
	Year (2022)	-0.54	0.27	-1.99	0.047
	Northing	-0.19	0.12	-1.60	0.111
	log(Disturbedloc)	-0.12	0.15	-0.80	0.424
	Treedloc	0.20	0.15	1.34	0.180
Red-breasted Nuthatch	(Intercept)	-0.89	0.24	-3.68	<0.001
	Treatment (Out LSA)	-0.47	0.32	-1.49	0.136
	Temperature	-0.30	0.07	-4.32	<0.001
	log(Precipitation)	-0.33	0.10	-3.42	0.001
	Easting	0.17	0.16	1.06	0.290
	Coniferousloc	0.38	0.20	1.91	0.056
	Deciduous Mixedloc	0.09	0.15	0.62	0.535
	MatureForestloc	0.37	0.21	1.79	0.074
Red-winged Blackbird	(Intercept)	-11.60	2.45	-4.74	<0.001
	Treatment (Out LSA)	-1.32	3.34	-0.40	0.692
	log(Precipitation)	-0.41	0.26	-1.59	0.112
	Week	-122.14	56.61	-2.16	0.031
	$Week^2$	-63.72	28.44	-2.24	0.025
Ring-billed Gull	(Intercept)	-4.95	0.61	-8.07	<0.001
	Treatment (Out LSA)	-1.46	0.80	-1.82	0.068
	Temperature	-0.27	0.20	-1.41	0.160

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
	Week	-0.51	0.29	-1.75	0.081
	log(Wetlandloc)	0.57	0.38	1.52	0.129
	log(Riparianloc)	0.56	0.51	1.08	0.280
Ring-necked Duck	(Intercept)	-4.44	0.97	-4.57	<0.001
	Treatment (Out LSA)	-0.49	0.63	-0.78	0.434
	Temperature	-0.26	0.09	-2.99	0.003
	Humidity	-0.16	0.07	-2.32	0.020
	Week	-1.23	0.14	-8.74	<0.001
	Year (2022)	1.04	0.84	1.24	0.216
	Disturbedloc	-2.31	0.62	-3.73	<0.001
	Treedloc	-1.26	0.53	-2.38	0.017
Ruby-crowned Kinglet	(Intercept)	1.99	0.17	11.56	<0.001
	Treatment (Out LSA)	0.09	0.23	0.39	0.694
	Temperature	-0.09	0.04	-2.48	0.013
	log(Precipitation)	-0.29	0.04	-7.13	<0.001
	Week	-65.24	3.28	-19.89	<0.001
	$Week^2$	-9.58	2.45	-3.92	<0.001
	Coniferousloc	-0.22	0.16	-1.41	0.158
	Deciduous Mixedloc	-0.07	0.12	-0.56	0.576
	MatureForestloc	0.68	0.16	4.33	<0.001
Sandhill Crane	(Intercept)	-1.59	0.45	-3.51	<0.001
	Treatment (Out LSA)	0.53	0.31	1.71	0.088
	Temperature	-0.18	0.08	-2.36	0.018
	log(Precipitation)	-0.28	0.09	-3.02	0.003
	Week	-20.26	4.97	-4.08	<0.001
	$Week^2$	23.19	3.70	6.26	<0.001
	Year (2022)	0.94	0.38	2.45	0.014
	log(Disturbedloc)	0.63	0.16	3.87	<0.001
	log(Wetlandloc)	0.31	0.17	1.81	0.071
Savannah Sparrow	(Intercept)	-2.14	0.86	-2.50	0.012
	Treatment (Out LSA)	-0.35	0.64	-0.56	0.579
	log(Precipitation)	-0.19	0.06	-3.22	0.001
	Week	-18.81	3.74	-5.02	<0.001
	$Week^2$	-14.38	3.47	-4.14	<0.001
	Year (2022)	0.74	0.77	0.96	0.335
	Wetlandloc	1.58	0.31	5.12	<0.001
	Riparianloc	0.68	0.34	2.00	0.045
Sedge Wren	(Intercept)	-6.19	1.33	-4.65	<0.001
	Treatment (Out LSA)	0.35	0.52	0.67	0.505
	Wind	0.09	0.14	0.64	0.524
	Week	-0.74	0.22	-3.32	0.001
	Year (2022)	1.80	1.08	1.67	0.096
	Days to Full Moon	0.53	0.18	3.03	0.002
	Treedloc	0.58	0.33	1.78	0.075
	Distance to Water	-2.24	1.25	-1.80	0.072
Solitary Sandpiper	(Intercept)	-2.26	0.46	-4.92	<0.001
	Treatment (Out LSA)	0.34	0.26	1.30	0.194
	Temperature	0.05	0.08	0.65	0.517
	Wind	-0.21	0.06	-3.35	0.001
	Week	-18.76	4.50	-4.17	<0.001

Species	Coefficient	Estimate	Std. Error	z value	Pr(>|z|)
	Week^2	29.84	3.08	9.68	<0.001
	Year (2022)	1.41	0.42	3.32	0.001
	Treedloc	-0.09	0.13	-0.74	0.460
	Wetlandloc	0.18	0.13	1.41	0.158
Tennessee Warbler	(Intercept)	1.45	0.24	6.02	<0.001
	Treatment (Out LSA)	-0.12	0.35	-0.33	0.744
	Temperature	0.31	0.03	9.75	<0.001
	log(Precipitation)	-0.29	0.05	-5.65	<0.001
	Week	-3.54	0.41	-8.62	<0.001
	Week^2	-50.59	0.02	-2648.48	<0.001
	Wetlandloc	-0.08	0.19	-0.43	0.671
	Riparianloc	0.61	0.22	2.79	0.005
Tree Swallow	(Intercept)	-3.12	0.50	-6.22	<0.001
	Treatment (Out LSA)	1.00	0.60	1.68	0.093
	Temperature	0.10	0.09	1.09	0.276
	Wind	-0.28	0.06	-4.67	<0.001
	Week	-33.69	11.27	-2.99	0.003
	Week^2	-78.01	9.41	-8.29	<0.001
	log(Disturbedloc)	0.15	0.32	0.46	0.643
	log(Wetlandloc)	0.94	0.33	2.83	0.005
Vesper Sparrow	(Intercept)	-5.73	1.24	-4.62	<0.001
	Treatment (Out LSA)	-0.09	0.98	-0.09	0.928
	Week	-0.62	0.16	-3.85	<0.001
White-winged Crossbill	(Intercept)	-1.50	0.25	-5.90	<0.001
	Treatment (Out LSA)	0.07	0.19	0.36	0.717
	Temperature	-0.33	0.06	-5.86	<0.001
	log(Precipitation)	-0.29	0.06	-4.92	<0.001
	Week	29.77	4.20	7.09	<0.001
	Week^2	-29.25	3.30	-8.86	<0.001
	Year (2022)	0.57	0.23	2.47	0.014
	Treedloc	0.05	0.09	0.60	0.550
	Distance to Water	0.36	0.09	4.08	<0.001
Wilson's Warbler	(Intercept)	-0.54	0.17	-3.23	0.001
	Treatment (Out LSA)	-0.04	0.22	-0.18	0.856
	Temperature	-0.17	0.05	-3.19	0.001
	log(Precipitation)	-0.41	0.07	-5.75	<0.001
	Week	-17.66	4.14	-4.27	<0.001
	Week^2	-30.54	3.45	-8.86	<0.001
Winter Wren	(Intercept)	3.48	0.28	12.42	<0.001
	Treatment (Out LSA)	-2.18	0.43	-5.08	<0.001
	Northing	0.64	0.22	2.95	0.003
	Disturbedloc	0.97	0.28	3.47	0.001
	Treedloc	0.54	0.28	1.94	0.052
Yellow-bellied Flycatcher	(Intercept)	0.98	0.19	5.15	<0.001
	Treatment (Out LSA)	-0.10	0.26	-0.37	0.712
	Wind	-0.23	0.04	-6.21	<0.001
	Week	-3.91	3.31	-1.18	0.236
	Week^2	-39.88	3.34	-11.93	<0.001
	log(Disturbedloc)	0.44	0.18	2.39	0.017
	Treedloc	0.11	0.18	0.59	0.555

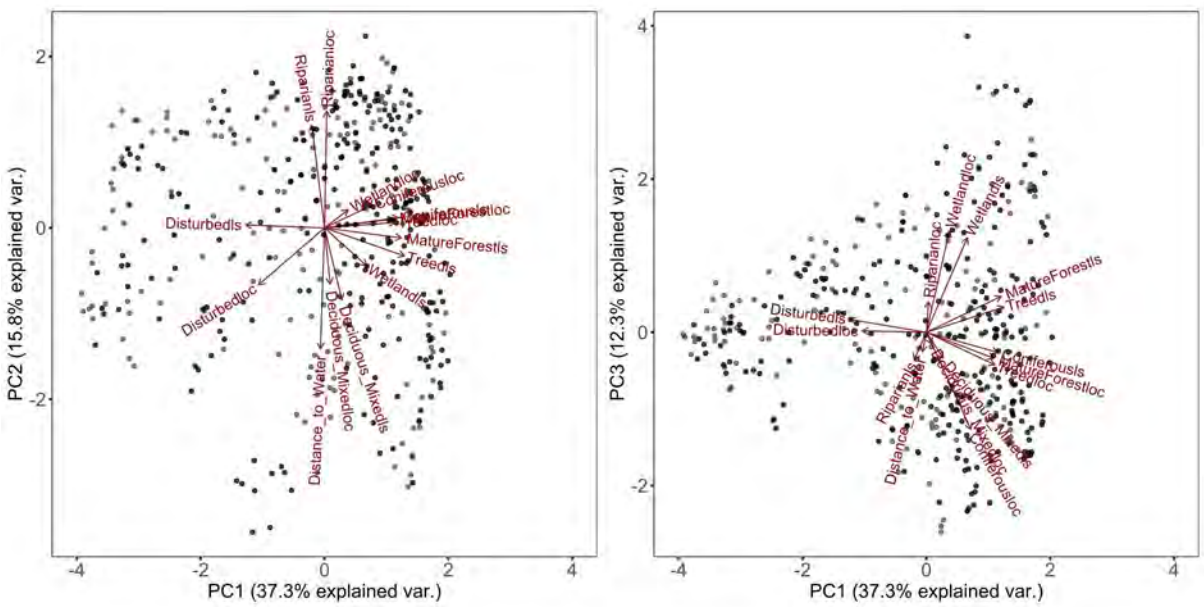

Figure 1. Biplots from a principal components analysis of habitat variables measured at two spatial scales. Variables ending in "loc" were measured at the local scale (within a 150m-radius circle around each point), and those ending in "ls", at the landscape scale (within a 5km-radius circle around each point).

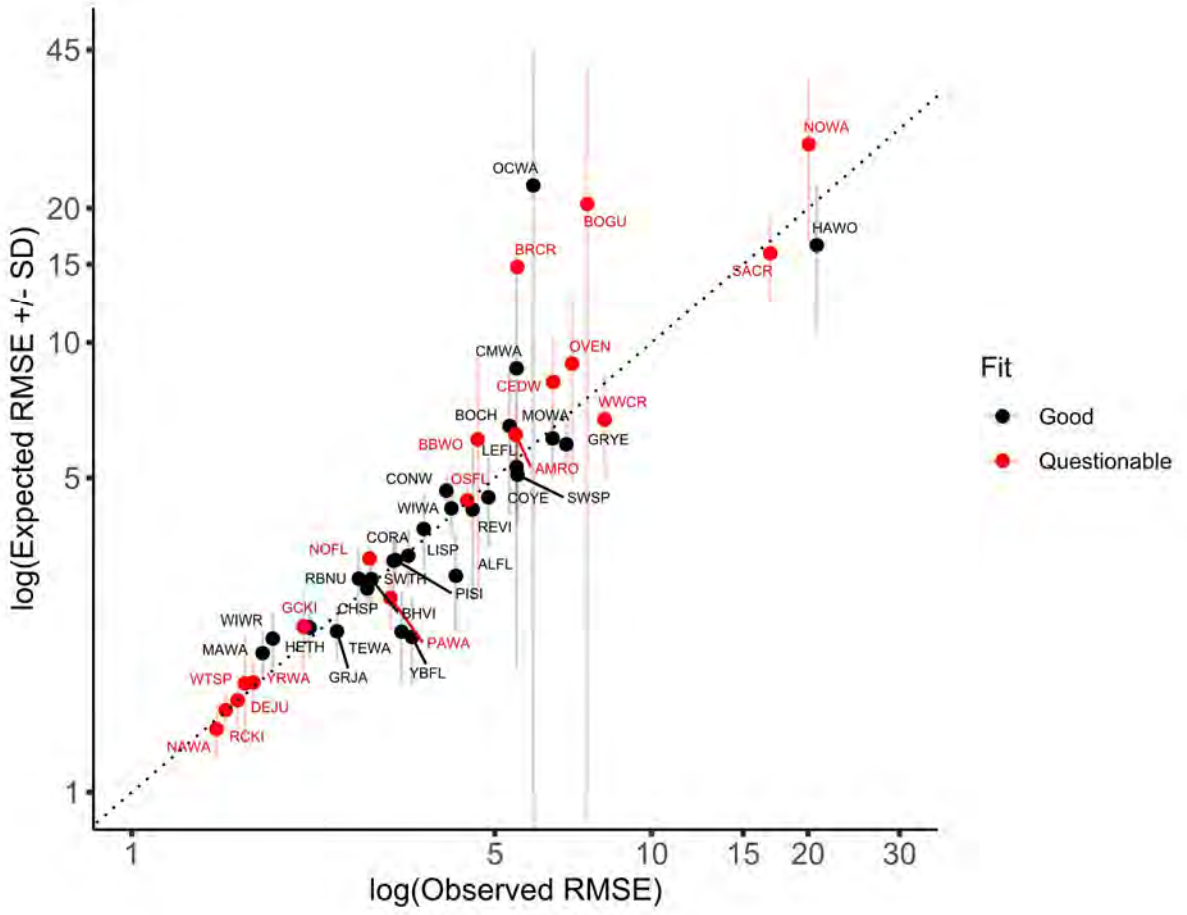

Figure 2. K-fold cross-validation results for the best-fitting density model for each species with sufficient data to model. The Expected RMSE is the mean (± standard deviation; SD) of the RMSEs obtained through k-fold validation on a large (80%) subset of the data. The Observed RMSE is calculated from the remainder of the data. Points are labelled by their corresponding species which are identified by their four-letter code. Model fit is indicated by colour.

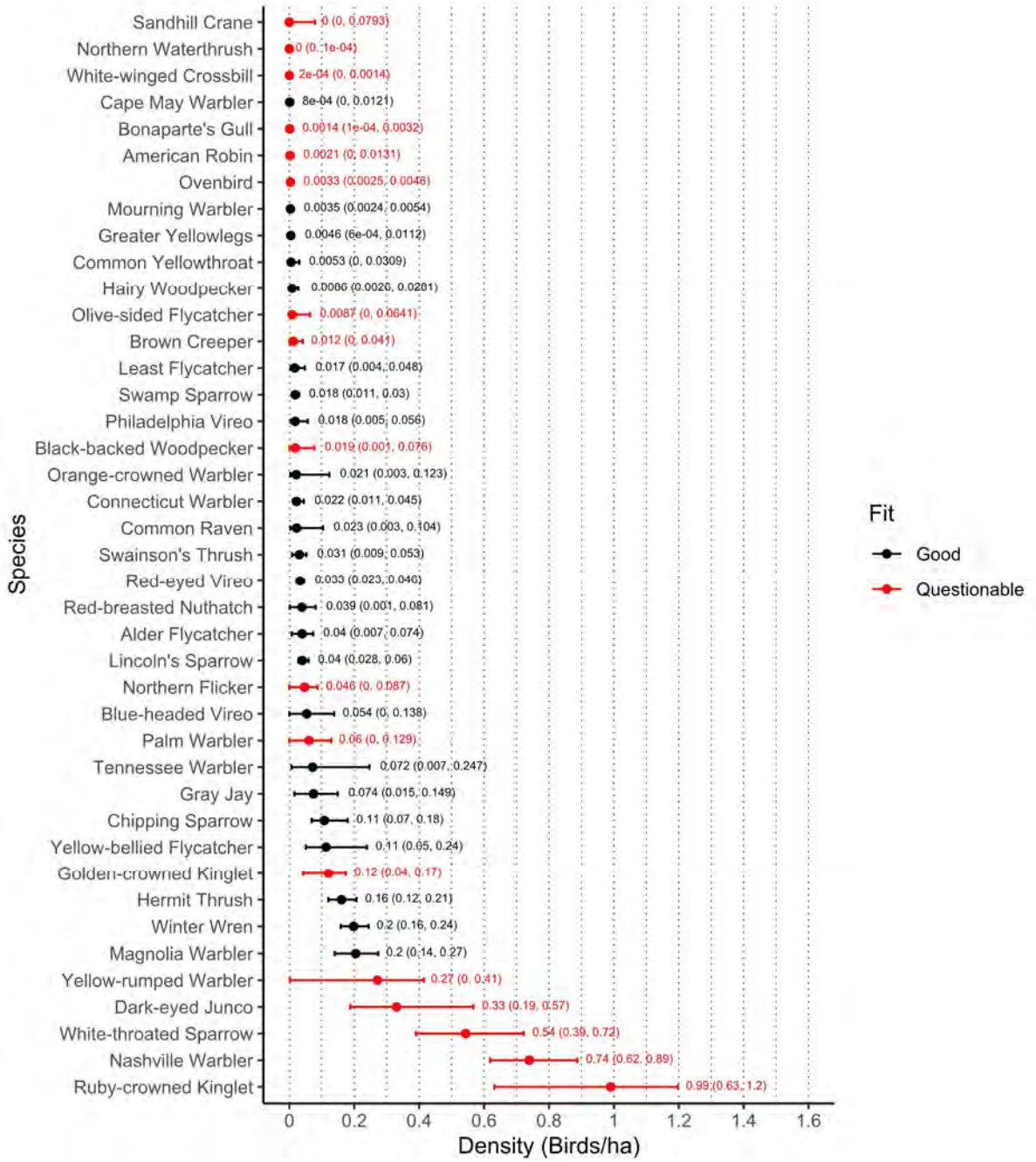

Figure 3a. Average density for each species predicted by the best-fitting models across both years and treatments at average levels of the habitat covariates. Confidence intervals were obtained through hierarchical bootstrapping to incorporate the error in detection probability for the species. Model fit is indicated by colour.

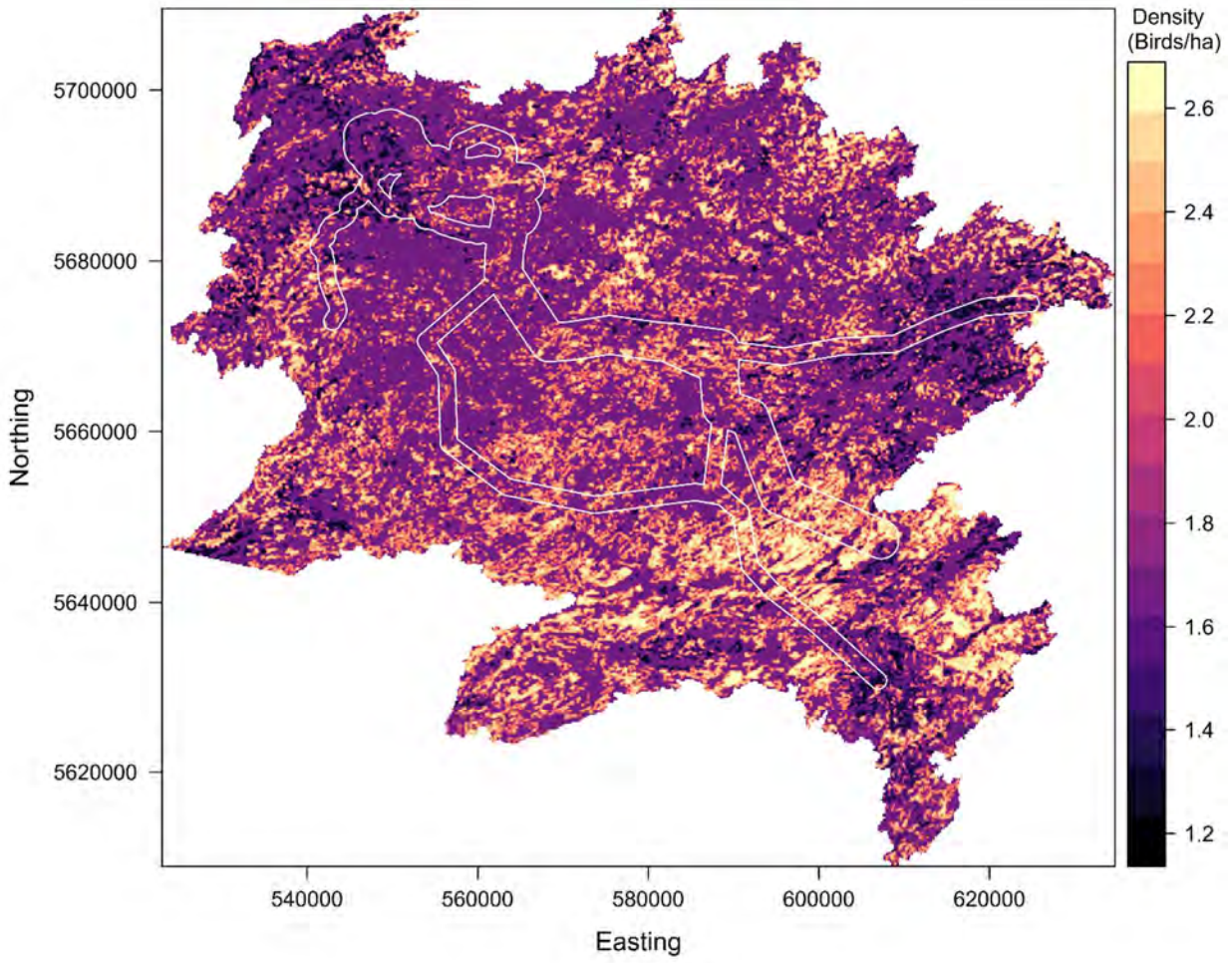

Figure 3b: Predicted density surface across the RSA for Ruby-crowned Kinglet, one of the most abundant bird species, modelled from point count surveys. The density surface was calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

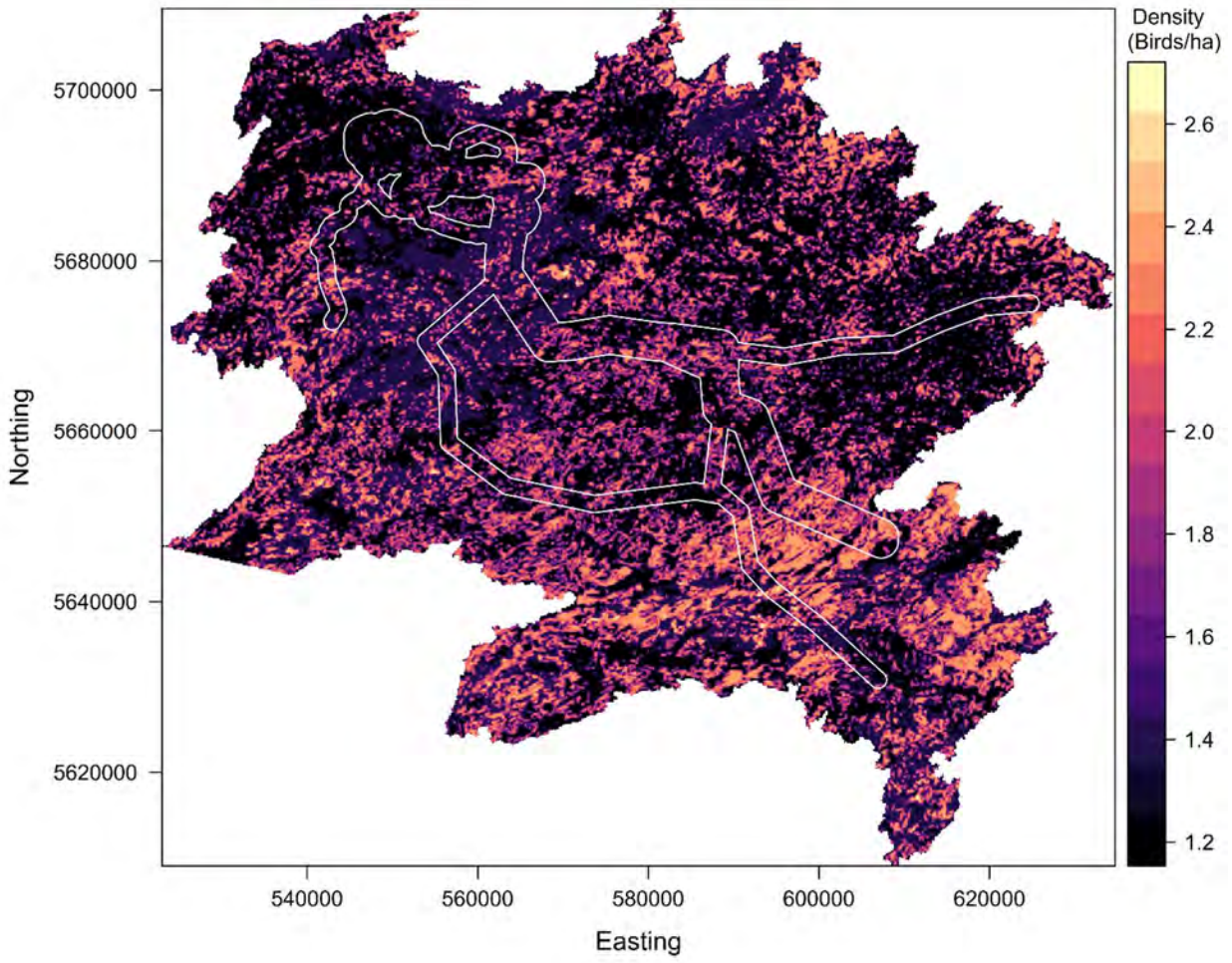

Figure 3c: Predicted density surface across the RSA for Nashville Warbler, one of the most abundant bird species, modelled from point count surveys. The density surface was calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

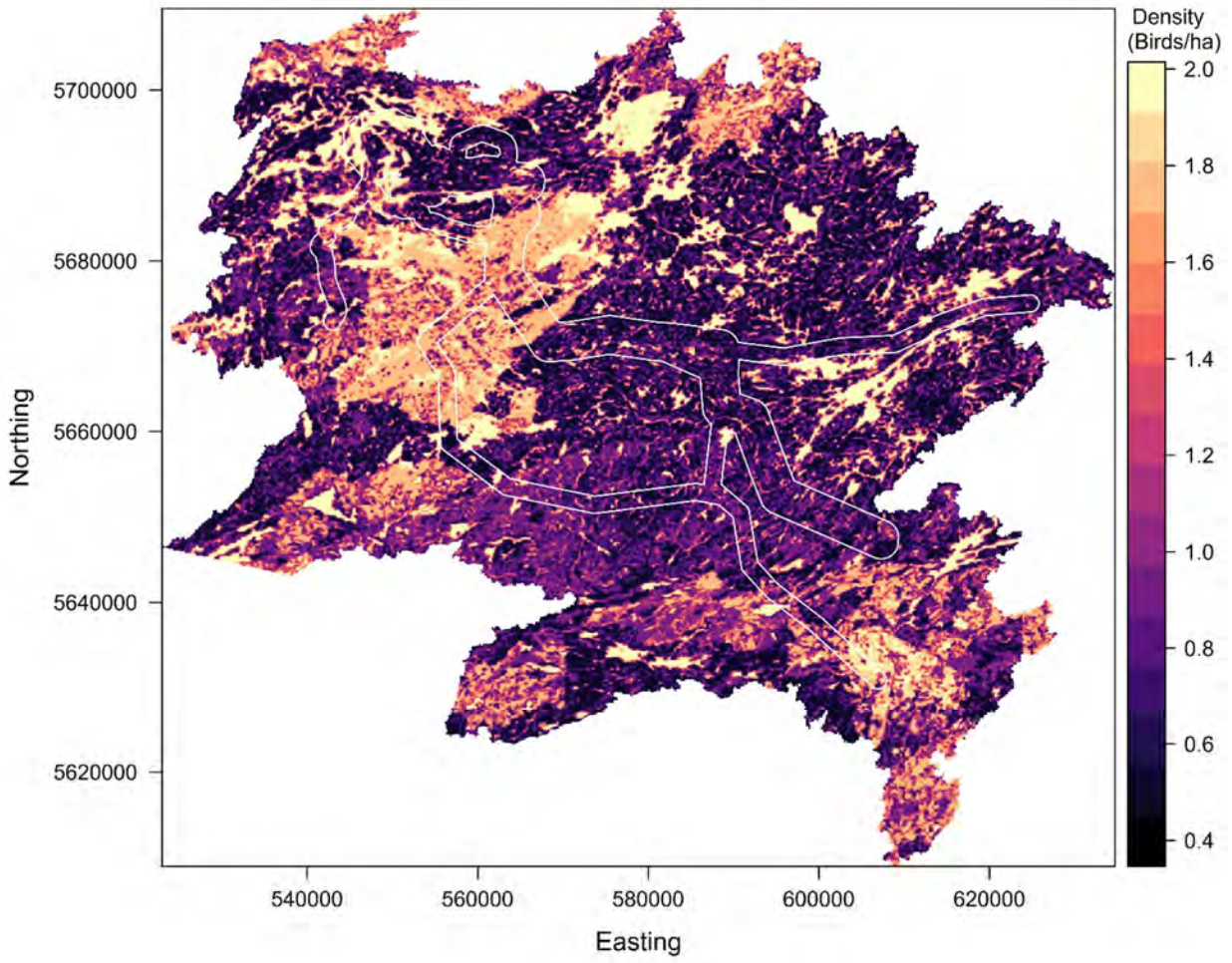

Figure 3d: Predicted density surface across the RSA for White-throated Sparrow, one of the most abundant bird species, modelled from point count surveys. The density surface was calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

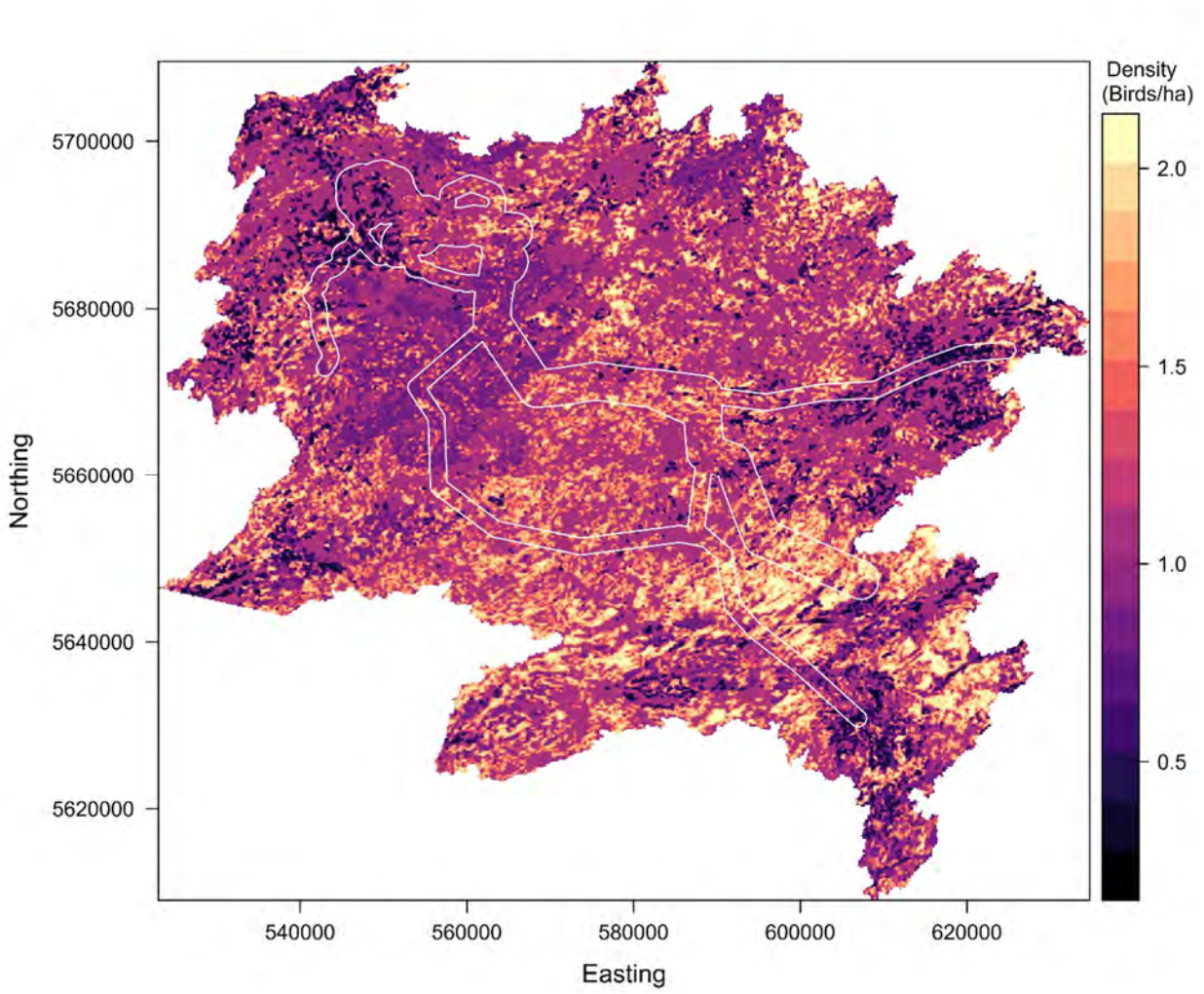

Figure 3e: Predicted density surface across the RSA for Dark-eyed Junco, a forest species, modelled from point count surveys. The density surface was calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

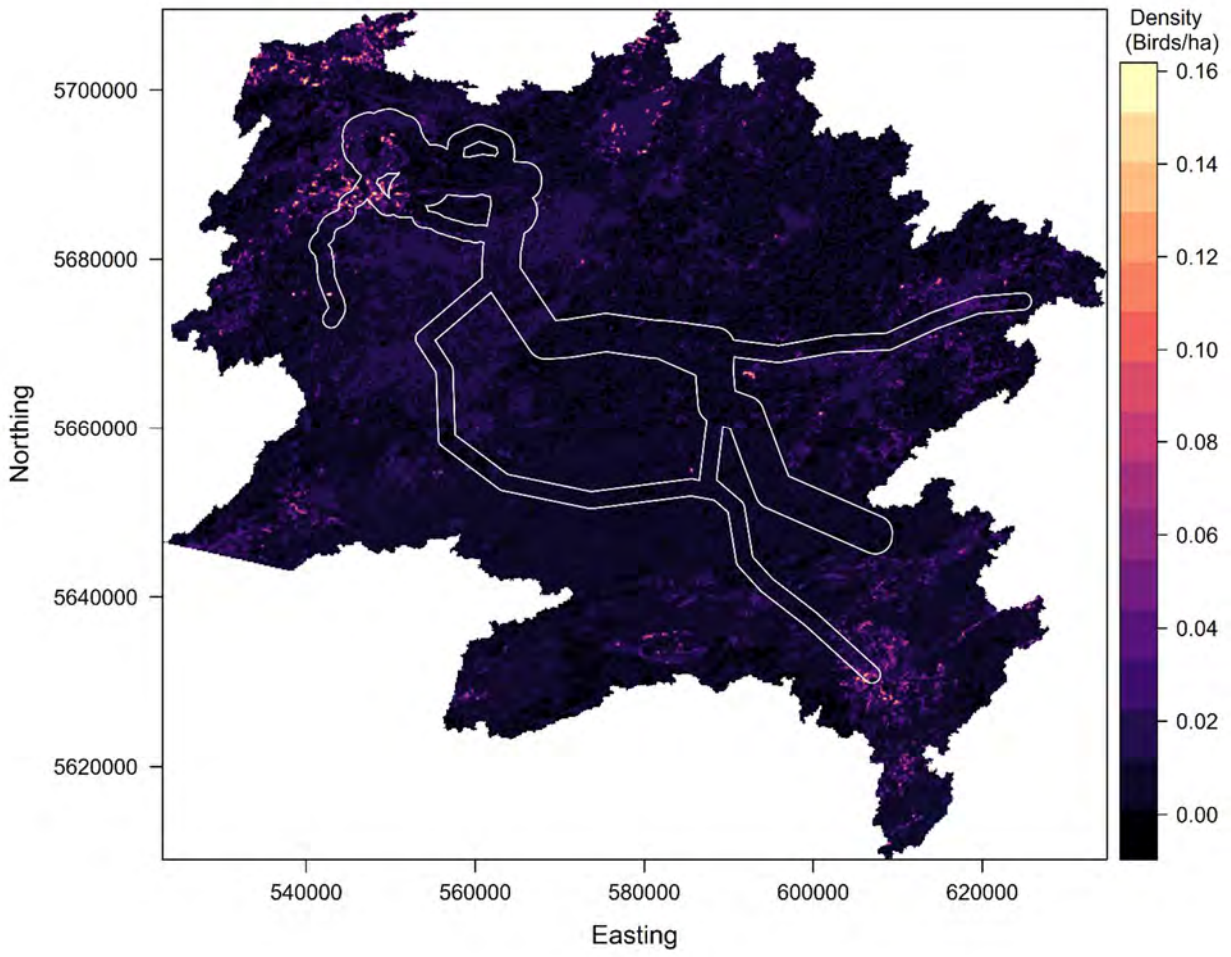

Figure 3f: Predicted density surface across the RSA for Ovenbird, a forest species, modelled from point count surveys. The density surface was calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

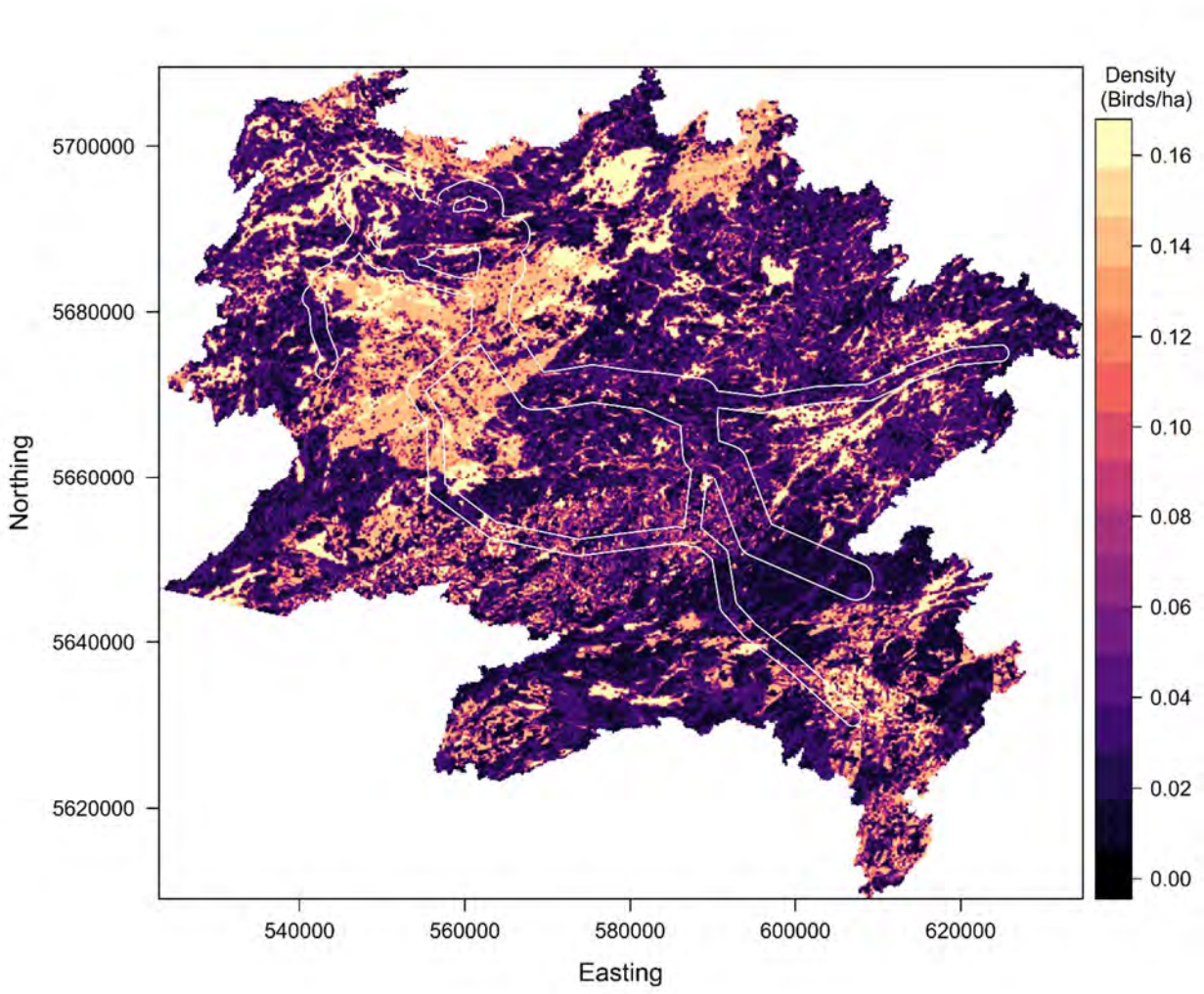

Figure 3g: Predicted density surface across the RSA for Red-eyed Vireo, a forest species, modelled from point count surveys. The density surface was calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

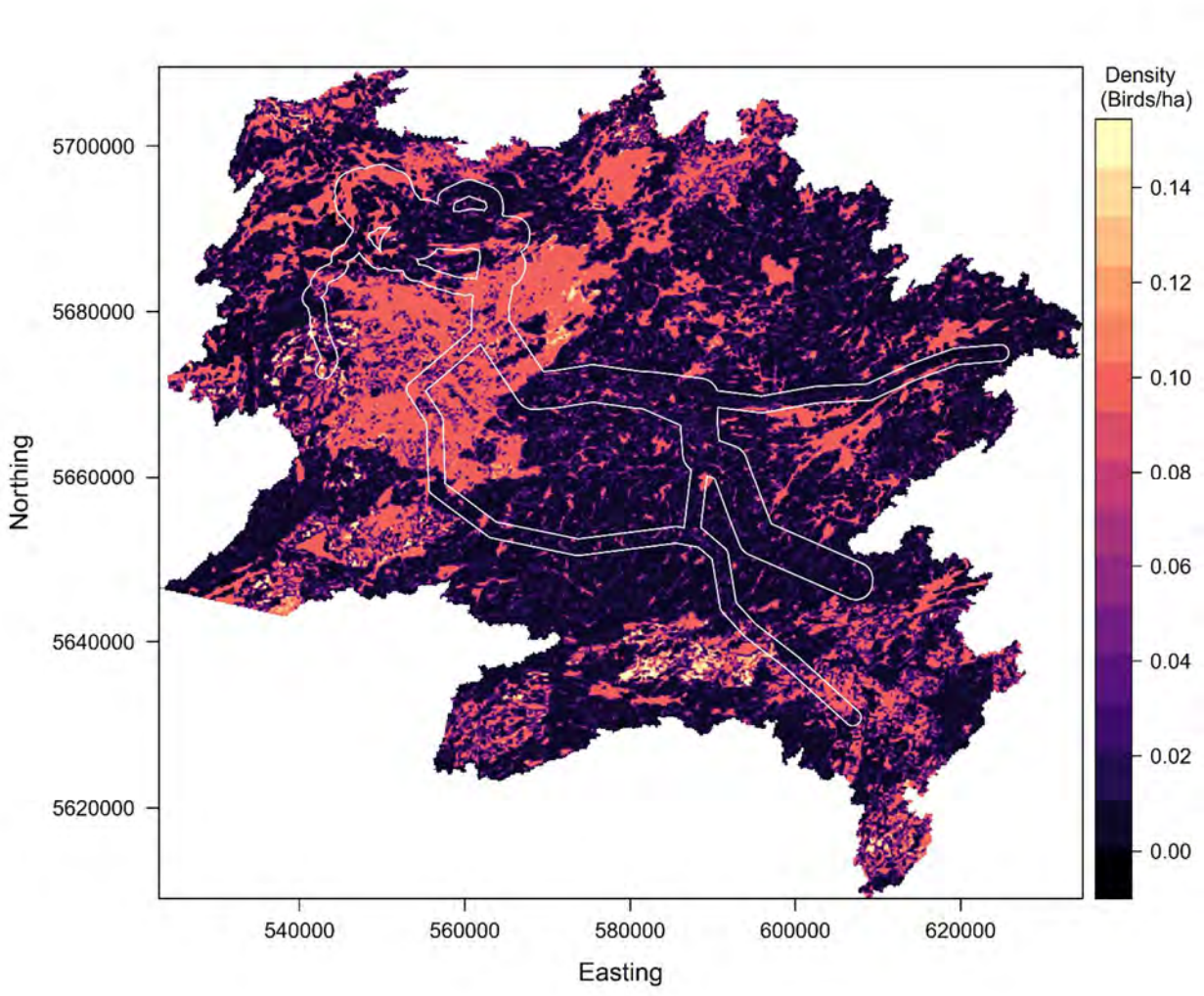

Figure 3h: Predicted density surface across the RSA for Common Yellowthroat, a wetland species, modelled from point count surveys. The density surface was calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

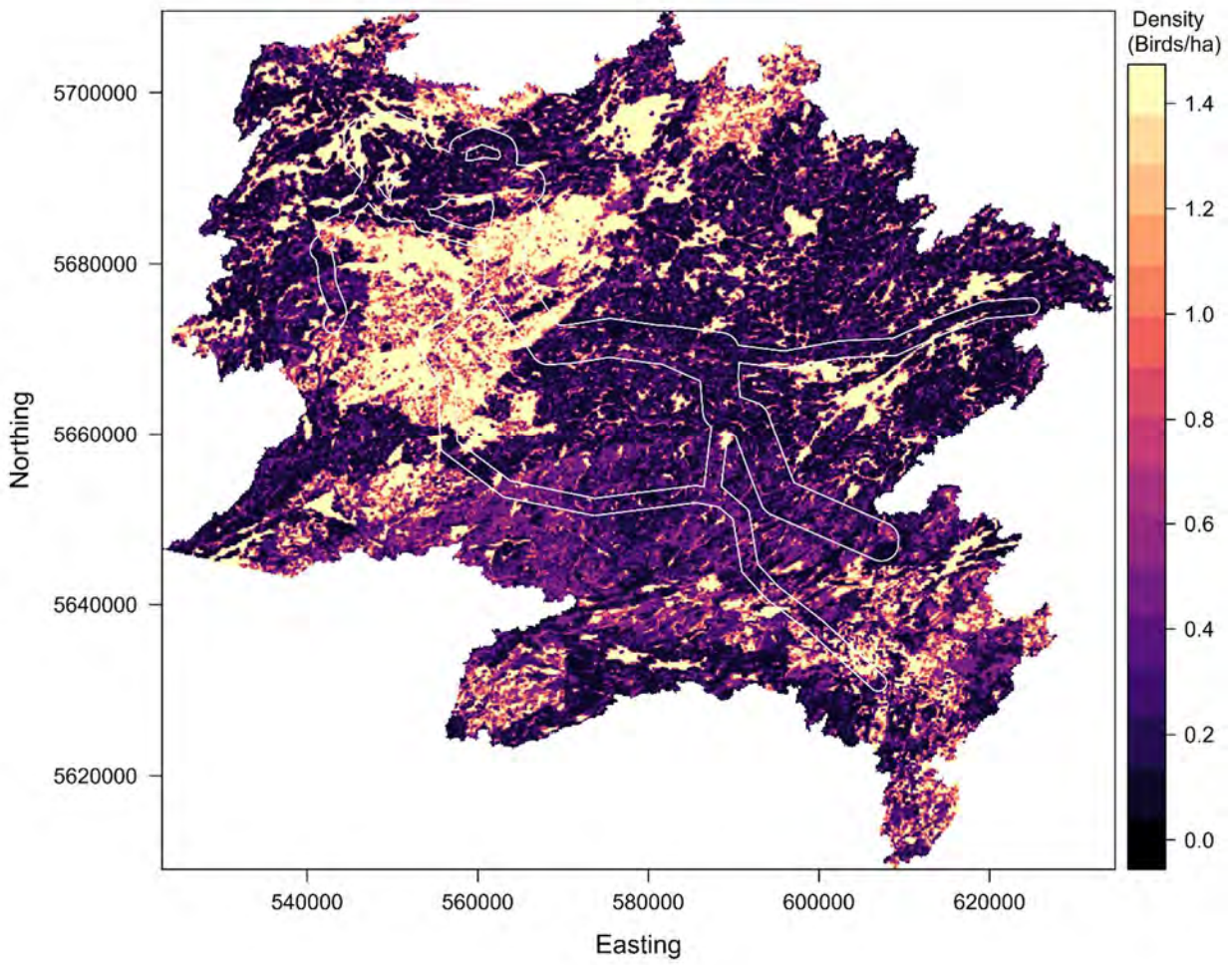

Figure 3i: Predicted density surface across the RSA for Palm Warbler, a wetland species, modelled from point count surveys. The density surface was calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

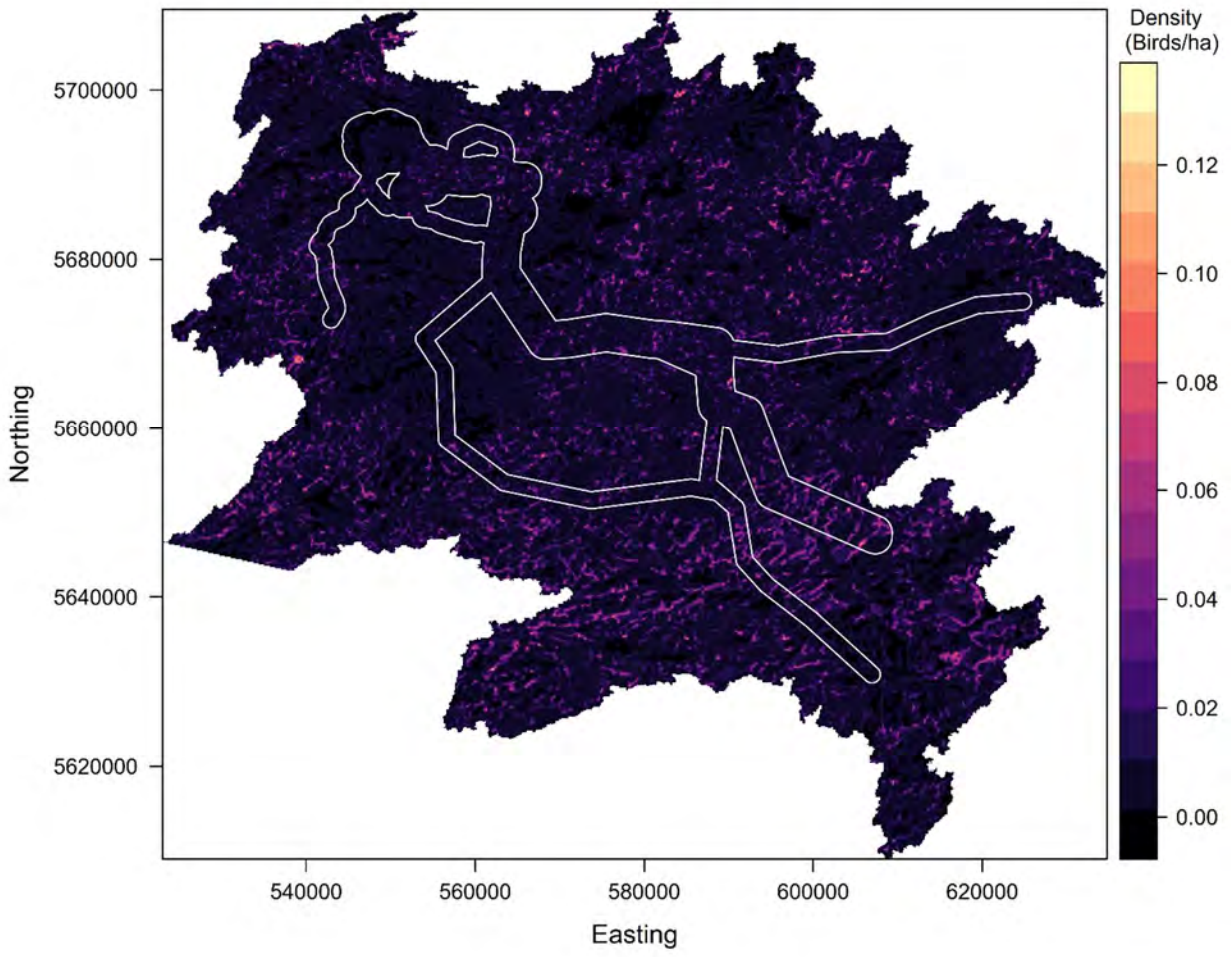

Figure 3j: Predicted density surface across the RSA for Greater Yellowlegs, a shorebird species, modelled from point count surveys. The density surface was calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

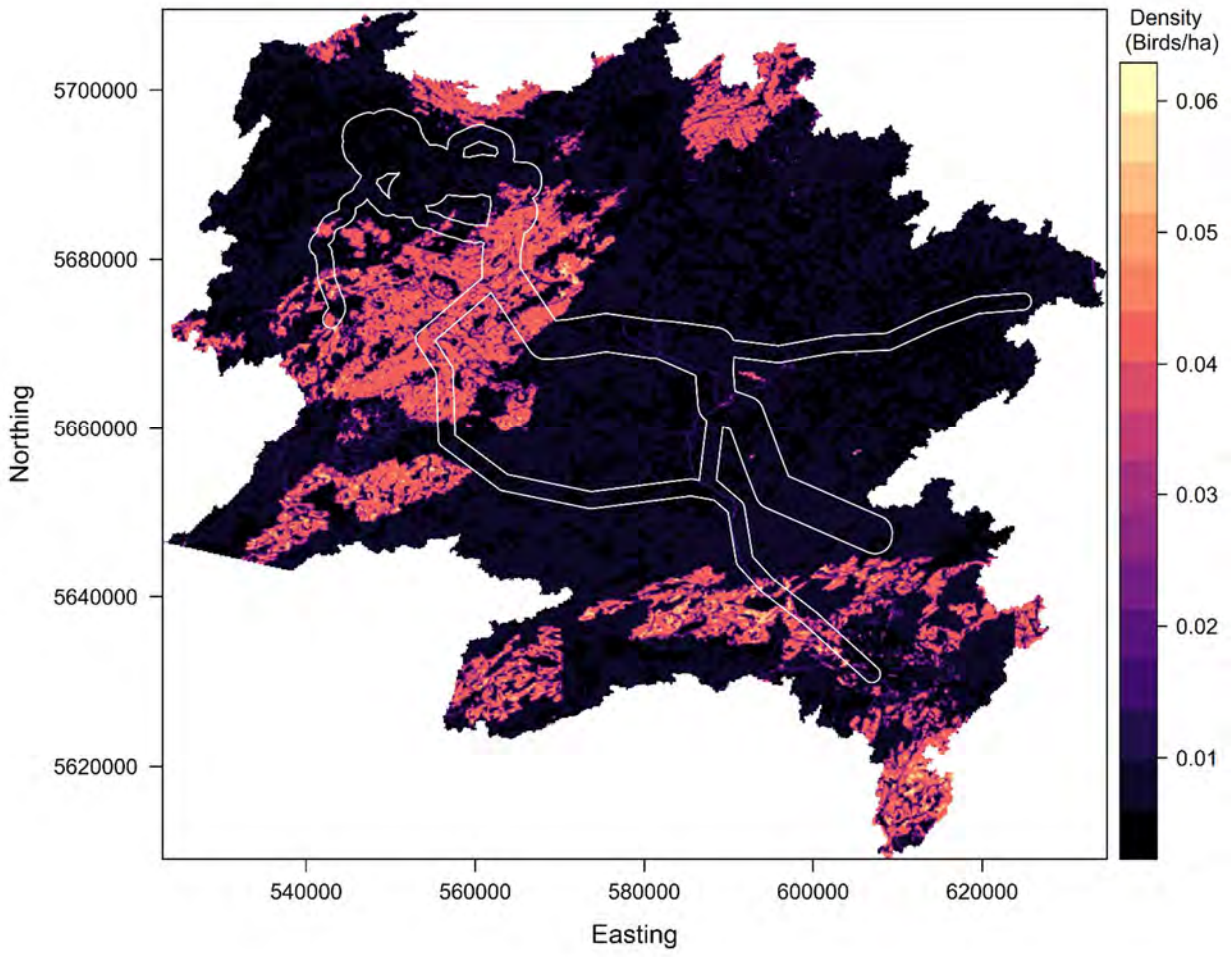

Figure 3k: Predicted density surface across the RSA for Olive-sided Flycatcher, a species at risk, modelled from point count surveys. The density surface was calculated based on average levels of the temporal and weather covariates. The LSA is delineated in white. Some areas of the RSA could not be mapped due to FRI and Far North data layers missing information in these areas.

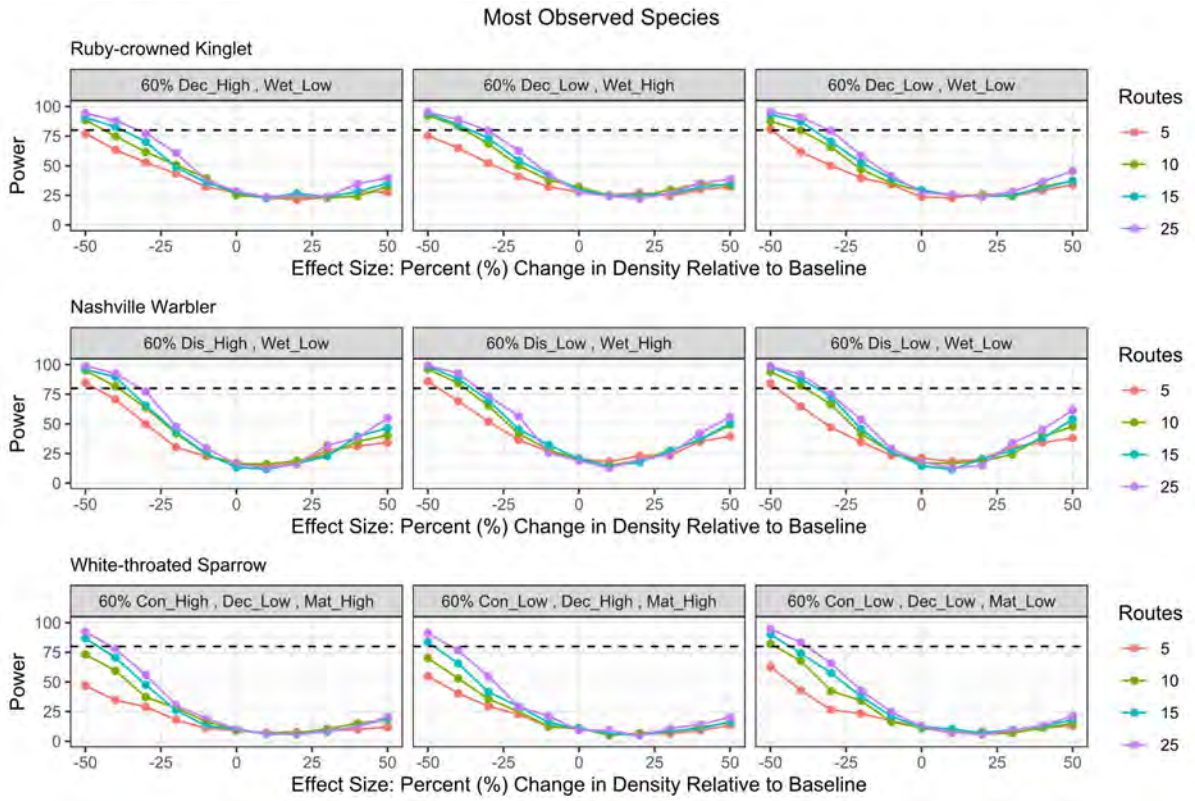

Figure 4. Power to detect a percent change in density (-50% to +50%) from baseline within the LSA for a hypothetical new year of breeding bird point count surveys for the three most observed species. Simulations were completed for various levels of effect size, sample size, and habitat. Each panel for a given species represents the habitat targeted during sampling. Habitat names are abbreviated as follows: Dec=Deciduous/Mixed Forest, Wet=Wetland, Dist=Disturbed Habitat, Con=Coniferous Forest, Mat=Mature Forest.

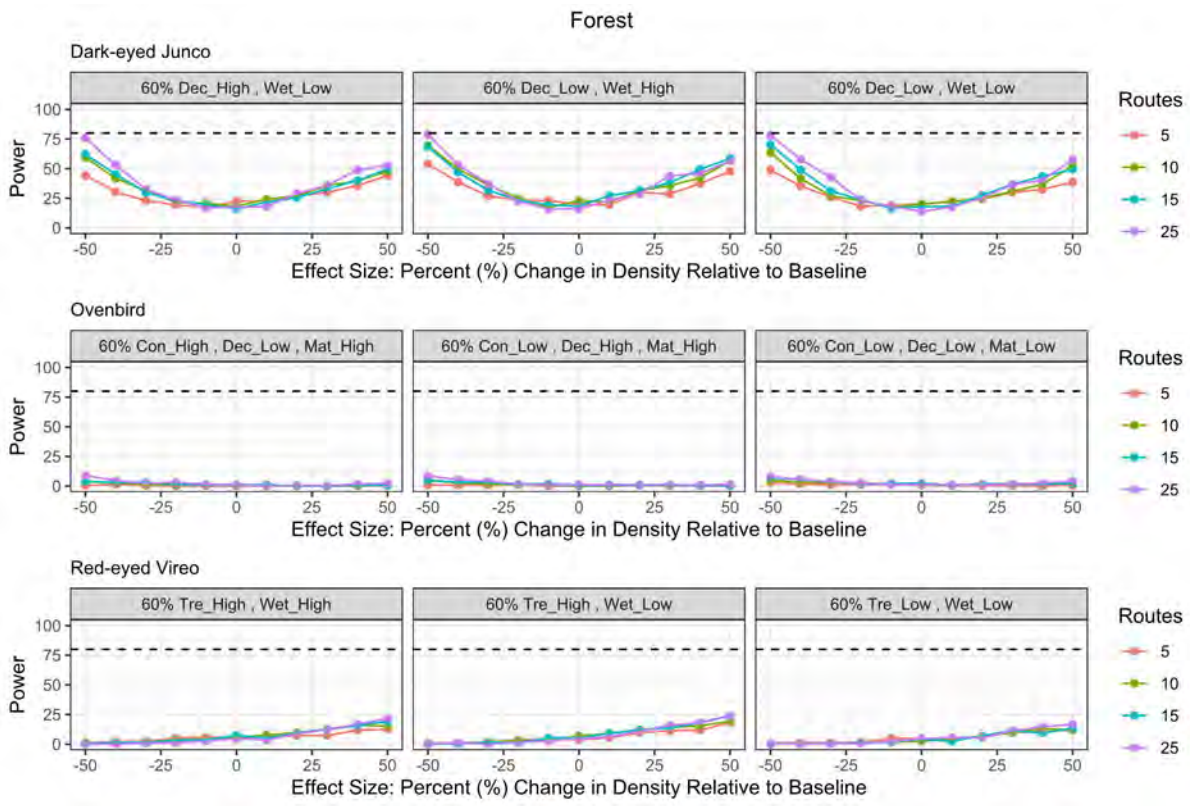

Figure 5. Power to detect a percent change in density (-50% to +50%) from baseline within the LSA for a hypothetical new year of breeding bird point count surveys for three representative Forest species. Simulations were completed for various levels of effect size, sample size, and habitat. Each panel for a given species represents the habitat targeted during sampling. Habitat names are abbreviated as follows: Dec=Deciduous/Mixed Forest, Wet=Wetland, Tre=Treed Habitat, Con=Coniferous Forest, Mat=Mature Forest.

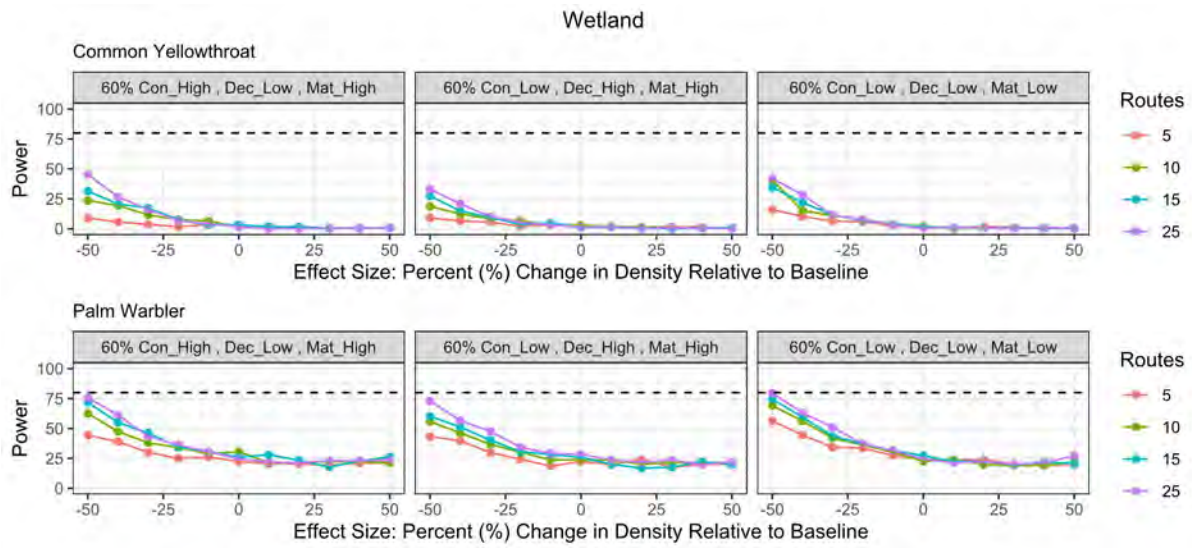

Figure 6. Power to detect a percent change in density (-50% to +50%) from baseline within the LSA for a hypothetical new year of breeding bird point count surveys for two representative Wetland species. Simulations were completed for various levels of effect size, sample size, and habitat. Each panel for a given species represents the habitat targeted during sampling. Habitat names are abbreviated as follows: Dec=Deciduous/Mixed Forest, Con=Coniferous Forest, Mat=Mature Forest.

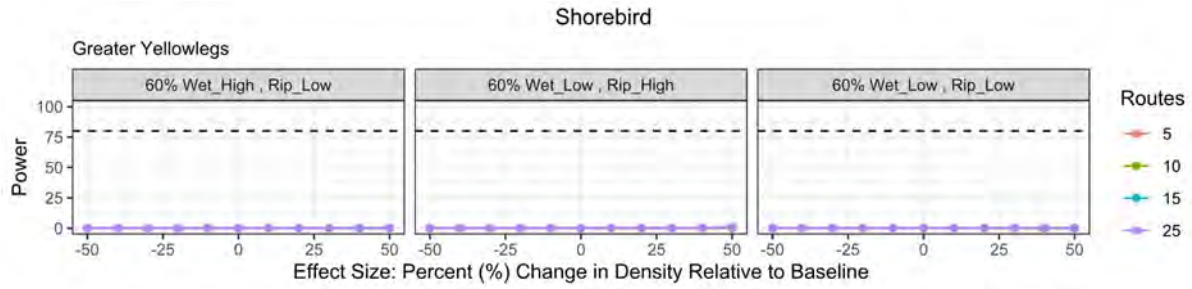

Figure 7. Power to detect a percent change in density (-50% to +50%) from baseline within the LSA for a hypothetical new year of breeding bird point count surveys for a representative shorebird species. Simulations were completed for various levels of effect size, sample size, and habitat. Each panel for a given species represents the habitat targeted during sampling. Habitat names are abbreviated as follows: Wet=Wetland, Rip=Riparian Habitat.

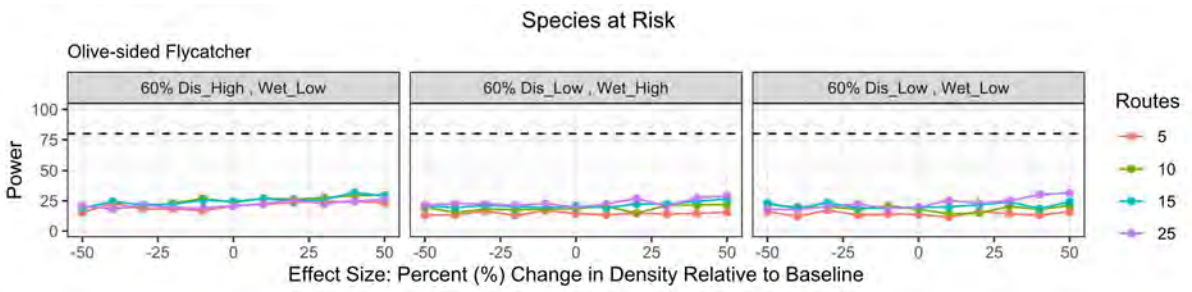

Figure 8. Power to detect a percent change in density (-50% to +50%) from baseline within the LSA for a hypothetical new year of breeding bird point count surveys for a representative Species at Risk. Simulations were completed for various levels of effect size, sample size, and habitat. Each panel for a given species represents the habitat targeted during sampling. Habitat names are abbreviated as follows: Wet=Wetland, Dist=Disturbed Habitat.

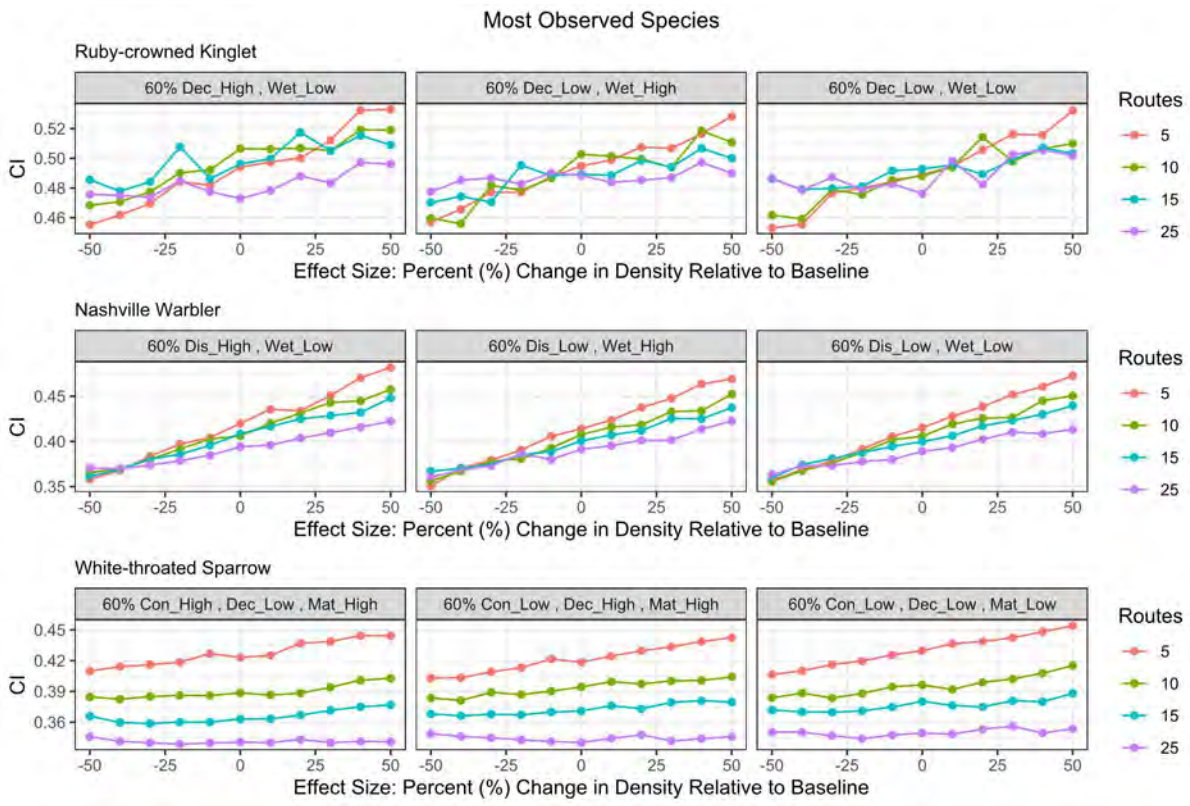

Figure 9. Confidence intervals for the predicted density inside the LSA at the reference levels of the predictor variables averaged across all years for the three most observed species. Predictions were obtained from simulations completed for various levels of effect size, sample size, and habitat. Each panel for a given species represents the habitat targeted during sampling. Habitat names are abbreviated as follows: Dec=Deciduous/Mixed Forest, Wet=Wetland, Dist=Disturbed Habitat, Con=Coniferous Forest, Mat=Mature Forest.

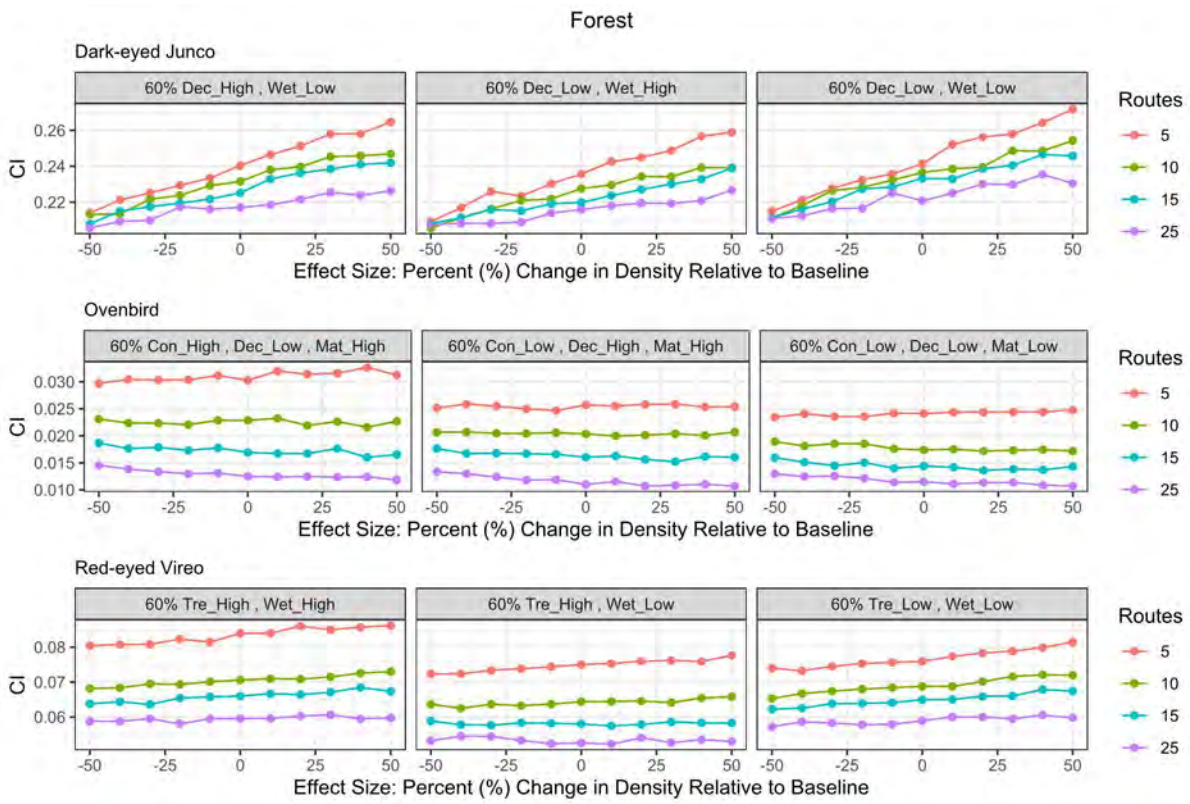

Figure 10. Confidence intervals for the predicted density inside the LSA at the reference levels of the predictor variables averaged across all years for three representative Forest species. Predictions were obtained from simulations completed for various levels of effect size, sample size, and habitat. Each panel for a given species represents the habitat targeted during sampling. Habitat names are abbreviated as follows: Dec=Deciduous/Mixed Forest, Wet=Wetland, Tre=Treed Habitat, Con=Coniferous Forest, Mat=Mature Forest.

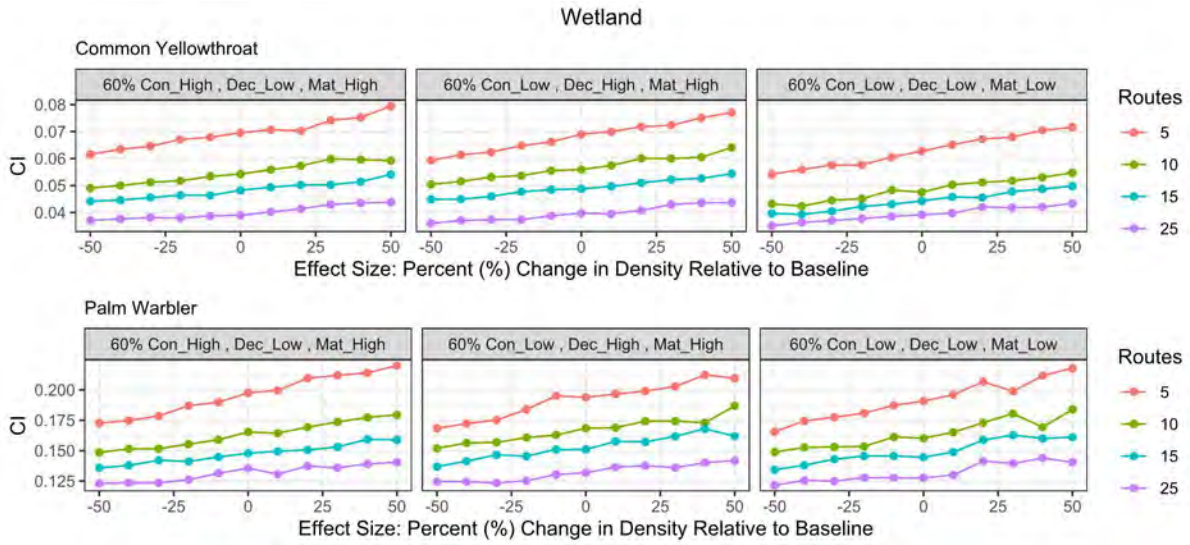

Figure 11. Confidence intervals for the predicted density inside the LSA at the reference levels of the predictor variables averaged across all years for two representative Wetland species. Predictions were obtained from simulations completed for various levels of effect size, sample size, and habitat. Each panel for a given species represents the habitat targeted during sampling. Habitat names are abbreviated as follows: Dec=Deciduous/Mixed Forest, Con=Coniferous Forest, Mat=Mature Forest.

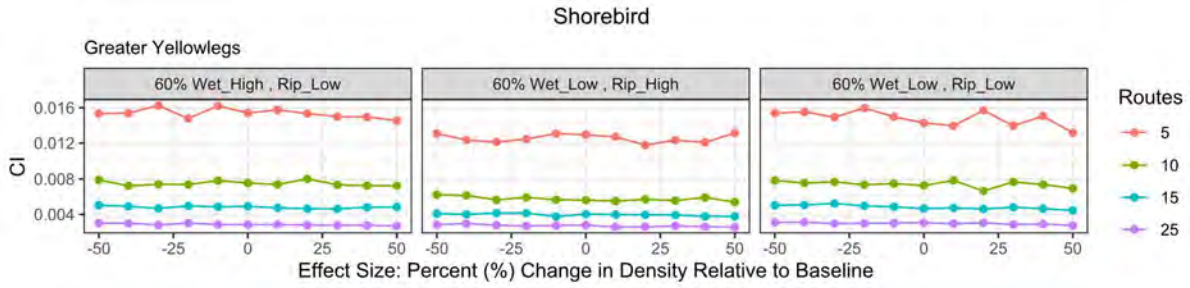

Figure 12. Confidence intervals for the predicted density inside the LSA at the reference levels of the predictor variables averaged across all years for a representative Shorebird species. Predictions were obtained from simulations completed for various levels of effect size, sample size, and habitat. Each panel for a given species represents the habitat targeted during sampling. Habitat names are abbreviated as follows: Wet=Wetland, Rip=Riparian Habitat.

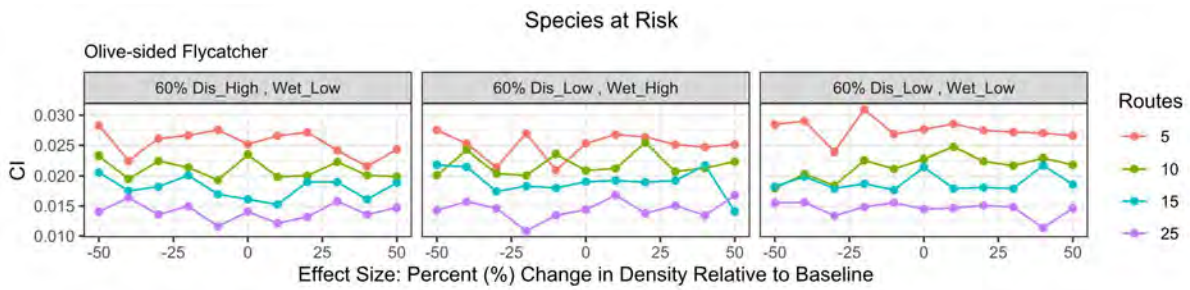

Figure 13. Confidence intervals for the predicted density inside the LSA at the reference levels of the predictor variables averaged across all years for a representative Species at Risk. Predictions were obtained from simulations completed for various levels of effect size, sample size, and habitat. Each panel for a given species represents the habitat targeted during sampling. Habitat names are abbreviated as follows: Wet=Wetland, Dist=Disturbed Habitat.

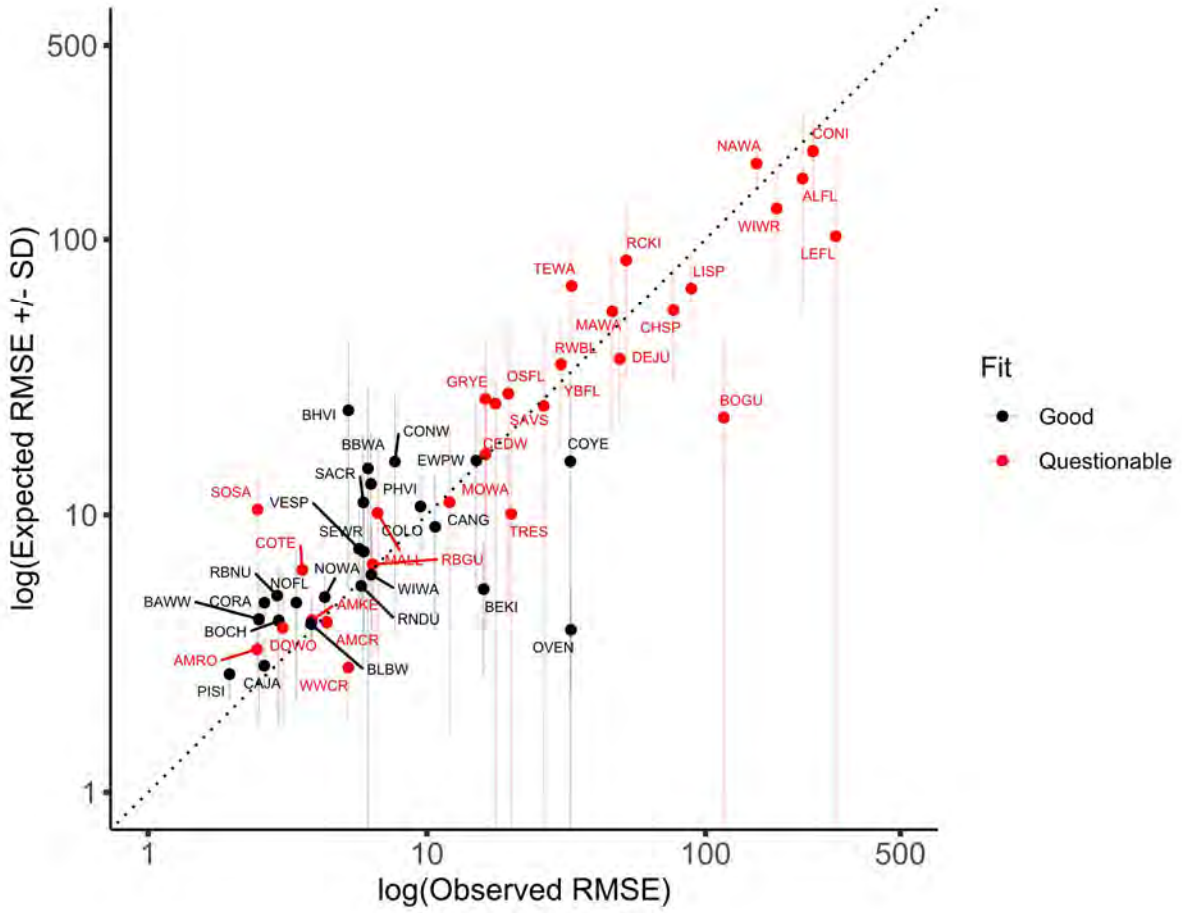

Figure 14. K-fold cross-validation results for the best-fitting acoustic activity model for each species with sufficient data to model. The Expected RMSE is the mean (± standard deviation; SD) of the RMSEs obtained through k-fold validation on a large (80%) subset of the data. The Observed RMSE is calculated from the remainder of the data. Points are labelled by their corresponding species which are identified by their four-letter code. Model fit is indicated by colour.

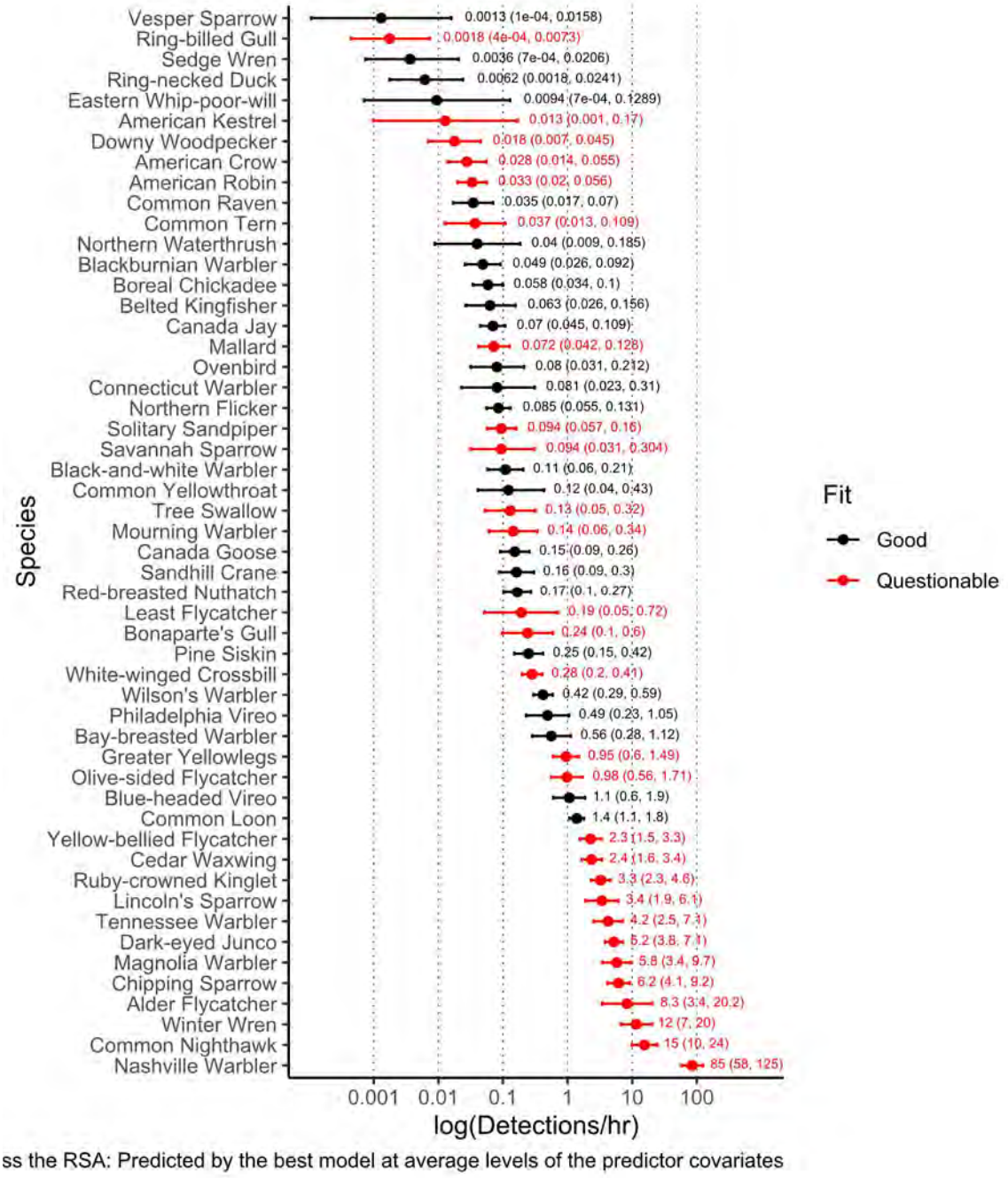

Figure 15. Average acoustic activity (detections/hr) during ARU recording periods for each species predicted by the best-fitting models across both years and treatments at average levels of the predictor covariates. Confidence intervals were estimated from standard errors of the predicted values. Model fit is indicated by colour.



Figure 16. Acoustic activity rate per week of the most frequently recorded bird species. Values are predicted average detection rate estimated by the best fitting models. Estimates were obtained for average levels of the habitat covariates (i.e. correcting for habitat variation). Values were scaled to the maximum average detection rate for the species to help highlight its relative activity across the season.

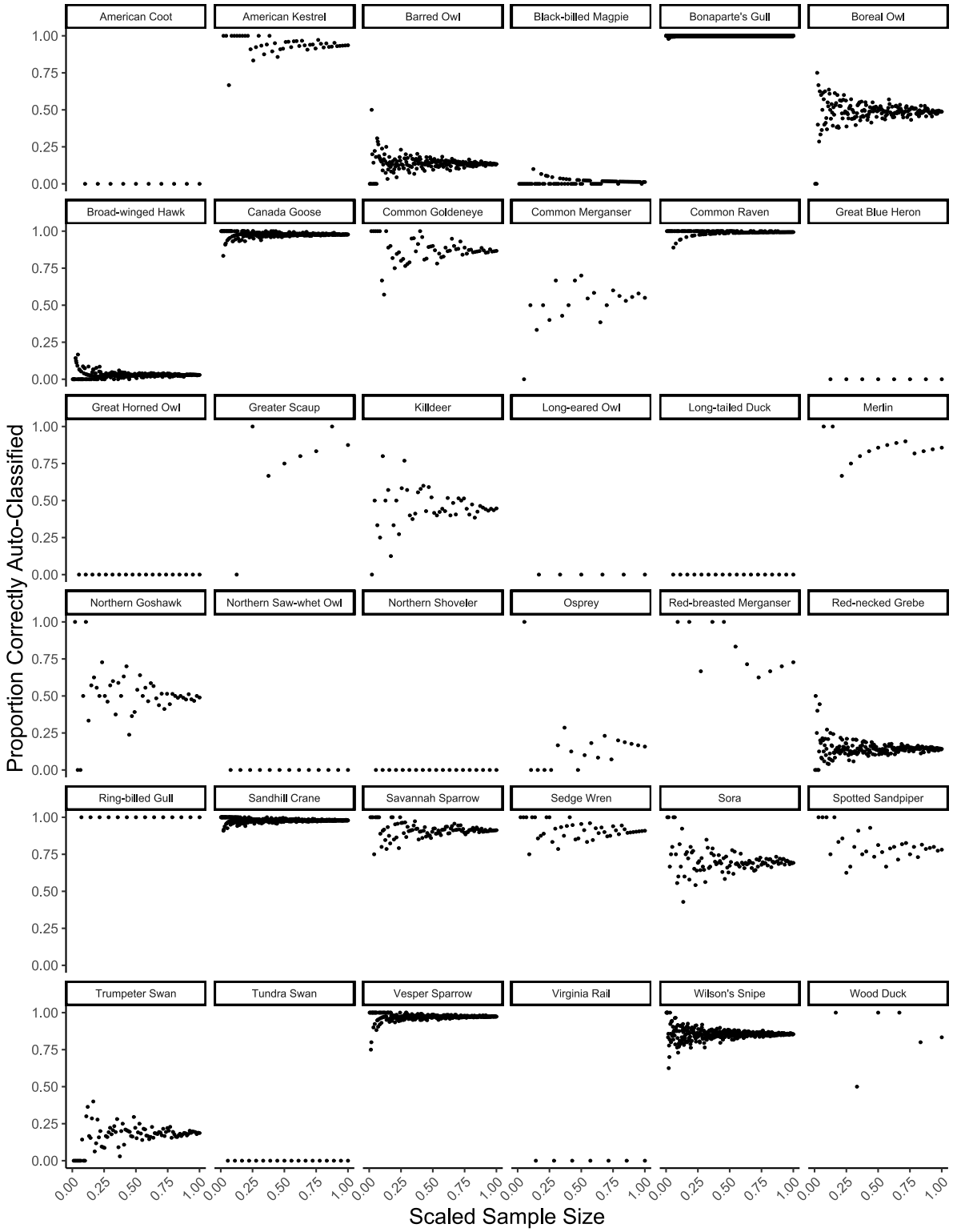

Figure 17a. Results from incrementally sampling (adding one at every iteration) the manually vetted classifications made by BirdNET. Species for which the accuracy measures reach a stable point indicate a sufficient QAQC effort for that species. Only species with at least five manually vetted detections are shown.

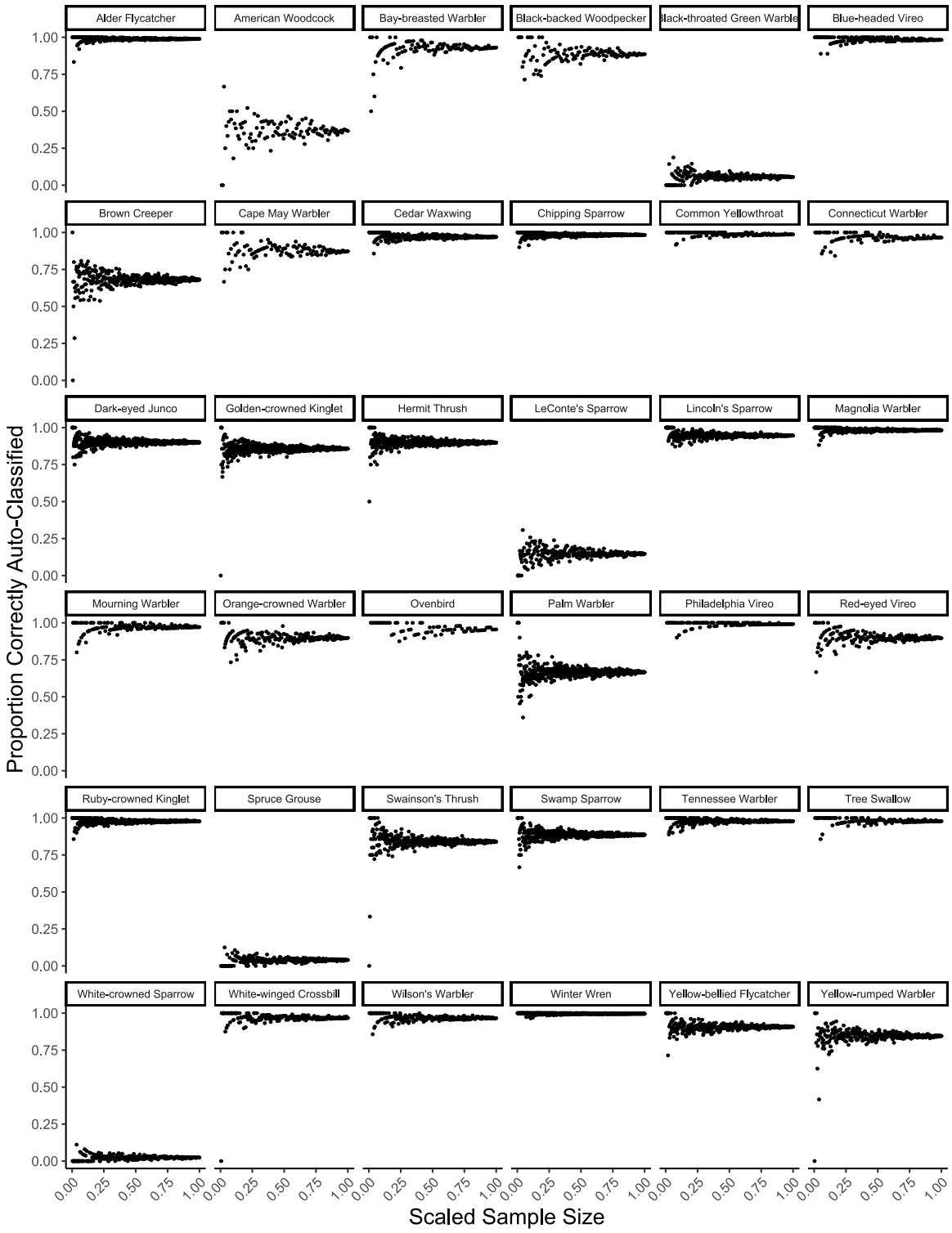

Figure 17b. Results from incrementally sampling (adding one at every iteration) the manually vetted classifications made by BirdNET. Species for which the accuracy measures reach a stable point indicate a sufficient QAQC effort for that species. Only species with at least five manually vetted detections are shown.

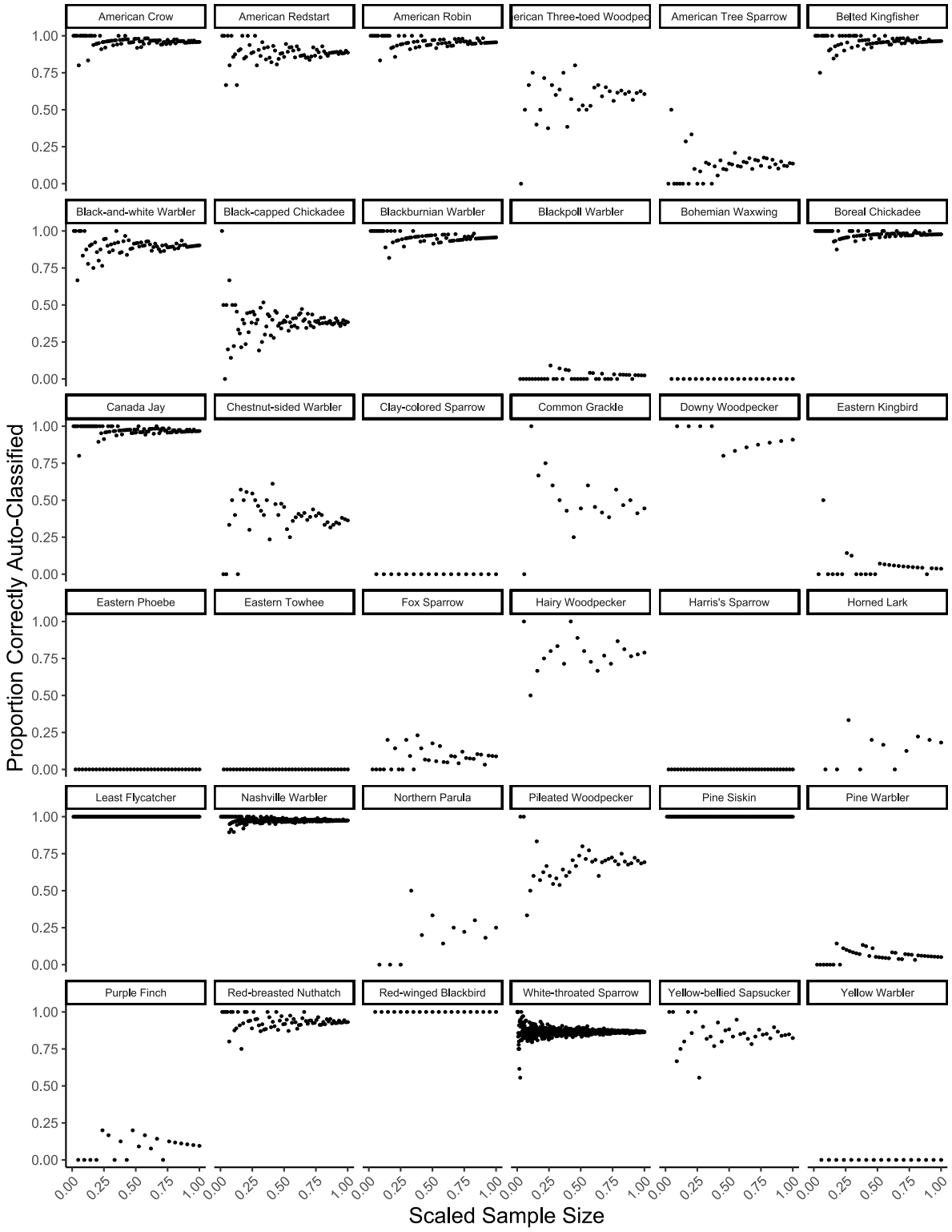

Figure 17c. Results from incrementally sampling (adding one at every iteration) the manually vetted classifications made by BirdNET. Species for which the accuracy measures reach a stable point indicate a sufficient QAQC effort for that species. Only species with at least five manually vetted detections are shown.

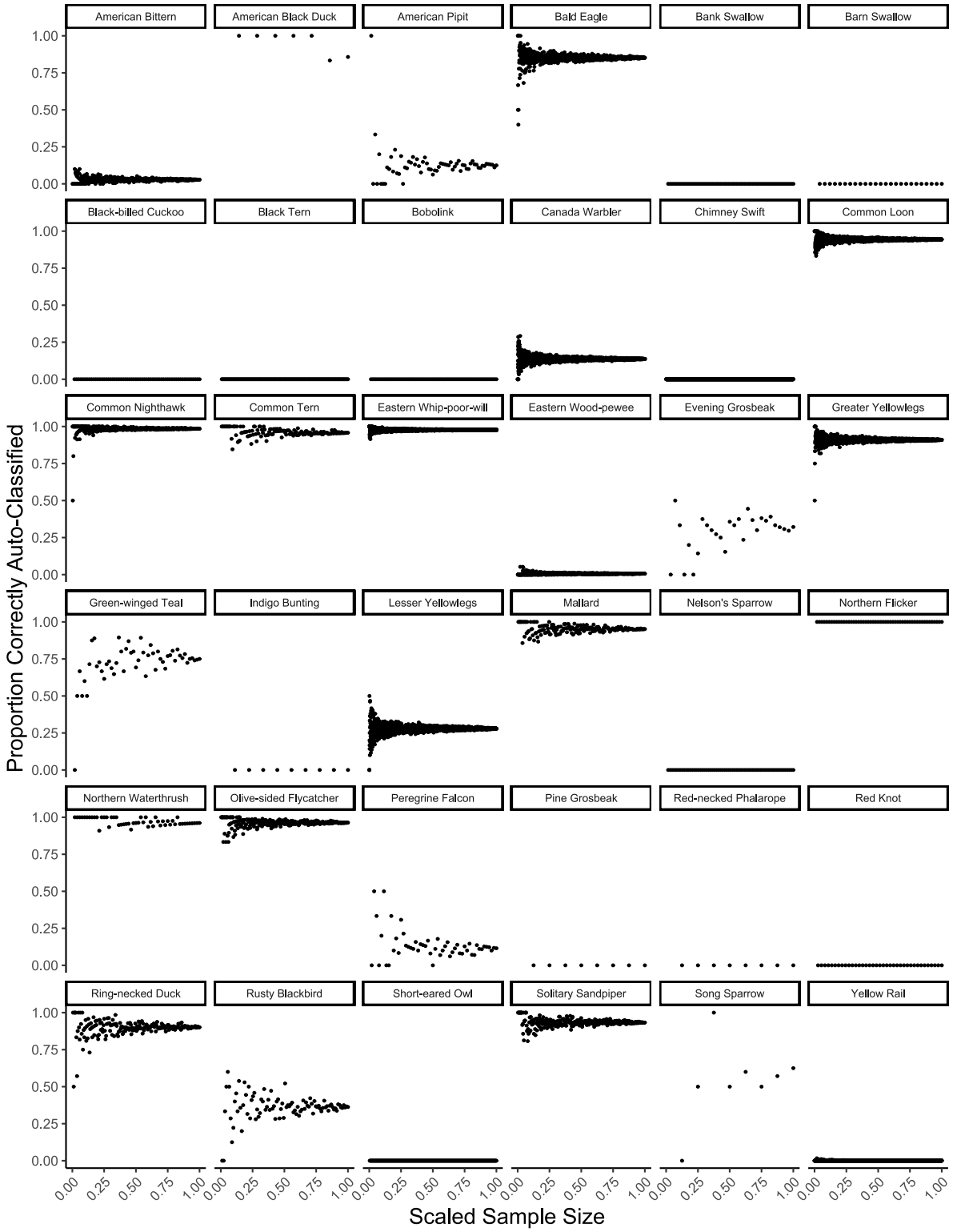

Figure 17d. Results from incrementally sampling (adding one at every iteration) the manually vetted classifications made by BirdNET. Species for which the accuracy measures reach a stable point indicate a sufficient QAQC effort for that species. Only species with at least five manually vetted detections are shown.

Attachment 8
Wolverine SECR Analysis Summary

Wolverine SECR Analysis Summary
Springpole Gold Project

Red Lake District, Northwest Ontario
Project #ONS2104

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1.0 METHODS

- Estimated density of wolverine using spatially explicit capture-recapture modelling following methods described by Strampelli et al. (2022) for secr density modelling of lion trailcam data and Scrafford et al. (2023) secr density modelling of wolverine run-pole and live-trapping data.
- Divided the data into occasions which describe the time allocated to one sampling event. We specified a 14-day occasion following Scrafford et al 2023. Within each 14-day period, we only included the first detection of an individual at any given station allowing each animal to be detected only once at each station.
- Capture and trap location data were then converted to the appropriate file format for use in the secr R package.
- When creating each animal's capture history, we specified the detector type as "proximity", following Strampelli et al. 2022, as each animal was free to be detected by multiple camera stations within a given occasion.
- We scaled down coordinates of traps and any other spatial data by 1000 to reduce the computational load of the analysis.
- SECR requires a raster object (mask) that defines the geographical boundaries for the parameter estimation. We followed Scrafford et al. 2023 and specified a 50km buffer.
- We used a 3-step approach to identifying the density model that best fit the data. First, we identified the detection function that best fit the data by comparing a null model that followed a half normal detection function to a null model that followed a hazard rate detection function. Second, we carried forward the best model from the first step and compared models that included sex as a covariate influencing detection probability at an animal's activity centre (g0), the scaling factor of the detection probability function, or both. Given that sex could not be identified for several individual wolverine, we used a hybrid mixture to account for the effect of sex on overall wolverine density (Efford, 2020). Finally, in the third step, we carried forward the best model from the second step and compared models that each included one of three spatial covariates that could impact density.
- The spatial covariates tested were snow cover, distance to the nearest road, road density, and project area.
- Snow cover data was obtained from the NASA earth data website (https://search.earthdata.nasa.gov/search). We averaged daily moderate resolution imaging spectroradiometer data (MODIS/Terra Snow Cover Daily L3 Global 500m SIN Grid V061) across the month of May separately for 2023 and 2024. We then took the average of both years to obtain the average percent snow cover. Finally, following Scrafford et al. 2023, for each cell, we calculated the average snow cover within a 10km-radius circle centred on the cell. The final covariate was a 500mx500m raster clipped to the mask where each cell represented the average percent snow cover within 10km.
- Distance to roads and road density were obtained by first merging the Ontario Roads Network and MNRF Roads layers. The resulting layer was converted to a 500mx500m raster and the distance to the nearest cell containing a road was calculated for all cells. Road density was first calculated as the length of road contained within each raster cell. Similar to the snow cover covariate, the final road density was calculated as the average length of road per cell within 10km of the cell.

- Project area was a categorical raster layer representing the area covered by the LSA and the area beyond the LSA.
- SECR was conducted with the secr package in R.

1.1 Results

Table 1-1. Information theoretic comparison of models tested to estimated the density of wolverine within and in the vicinity of the project. The best model followed a half normal detection probability function, modelled the detection probability at the activity centre (g(0)) as a function of sex, and included no spatial covariates. Bold text indicates the best identified model at each modelling step. "h2" indicates the inclusion of "sex" as a covariate based on a hybrid mixture model structure. Models that included sex for the sigma parameter resulted in unrealistically large density estimates so these were not considered for the final model. Although road density gave a more favourable AICc value in the final modelling step, certain parameters from this model could not be estimated making this model unreliable.

Table 1–1: Valued Components and Rationale (Table Style)

Modelling Objective	Detection Function	D	G0	SIGMA	LOGLIK	AIC	AICC	DAICC	AICCWT
Detection function	**Half Normal**	**1**	**1**	**1**	**-220.59**	**449.19**	**450.04**	**0.00**	**0.95**
	Hazard Rate	1	1	1	-224.74	455.48	455.98	5.94	0.05
Effect of sex	Half Normal	1	1	h2	-213.87	437.75	439.05	0.00	0.77
	Half Normal	1	h2	h2	-213.80	439.61	441.48	2.43	0.23
	Half Normal	**1**	**h2**	**1**	**-225.48**	**460.96**	**462.27**	**23.22**	**0.00**
	Half Normal	1	1	1	-231.47	470.94	471.79	32.74	0.00
Effect of spatial covariates	Half Normal	Road Density	h2	1	-220.74	453.49	455.35	0.00	0.92
	Half Normal	**1**	**h2**	**1**	**-225.48**	**460.96**	**462.27**	**6.92**	**0.03**
	Half Normal	Area	h2	1	-224.31	460.62	462.48	7.13	0.03
	Half Normal	Snow Cover	h2	1	-224.42	460.85	462.72	7.37	0.02
	Half Normal	Road Density	1	1	-226.86	463.71	465.02	9.67	0.01
	Half Normal	1	1	1	-231.47	470.94	471.79	16.44	0.00
	Half Normal	Snow Cover	1	1	-231.04	472.07	473.38	18.02	0.00
	Half Normal	Area	1	1	-231.45	472.90	474.21	18.86	0.00
	Half Normal	Distance to Road	1	1	-232.13	474.25	475.56	20.20	0.00
	Half Normal	Distance to Road	h2	1	-232.16	476.31	478.18	22.83	0.00

Table 1-2. Density estimates for each year from the best model which models detection probability with a half normal function, as a function of sex at the activity centre, and with no spatial covariates impacting density.

Table 1–2: Valued Components and Rationale (Table Style)

Year	Estimate	Standard Error	LCL	UCL	N
2023	3.23	0.969	1.817	5.742	31
2024	3.23	0.969	1.817	5.742	21

2.0 REFERENCES

Efford, Murray. (2020). secr: Spatially explicit capture-recapture models. R pack-age version 4.2.0.

Strampelli, Paolo, Charlotte E. Searle, Josephine B. Smit, Philipp Henschel, Lameck Mkuburo, Dennis Ikanda, David W. Macdonald, Amy J. Dickman. 2022. Camera trapping and spatially explicit capture–recapture for the monitoring and conservation management of lions: Insights from a globally important population in Tanzania. Ecological Solutions and Evidence, 3:1: e12129. DOI: 10.1002/2688-8319.12129

Scrafford, Matthew A., Jacob L. Segui, Laura K. McCaw, Mark S. Boyce, and Justina C. Ray. 2023. Wolverine density, survival, and population trends in the Canadian boreal forest. The Journal of Wildlife Management 2024;88:e22587. DOI: 10.1002/jwmg.22587

Attachment 9
Wolverine Habitat Suitability Modelling Methods

Wolverine Habitat Suitability Modelling Methods Springpole Gold Project

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Project #ONS2104

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1.0 WOLVERINE HABITAT SUITABILITY MODEL

1.1 Habitat Associations

Wolverine are the largest terrestrial member of the weasel family, inhabiting remote wilderness areas and occurring at low densities over the landscape (Pasitschniak-Arts and Larivière 1995). Wolverine have large home ranges (males>females) and broad-scale habitat requirements, resulting in sparsely distributed populations (COSEWIC 2003; Aubry 2009; Ontario Wolverine Recovery Team 2013). In Ontario, their habitat associations are influenced by various factors, including forest types, prey availability, human activity, and landscape features.

Forest Types and Vegetation:

- Boreal Forests: Wolverines are typically associated with boreal forests, which provide cover, denning sites, and prey.
- Mixedwood Forests: Mixed coniferous and deciduous forests are also important, especially those with a rich understory.
- Old-Growth Forests: These forests offer ideal conditions for denning and have less human disturbance.

Snow Cover:

- Deep Snow: Wolverines rely on areas with deep, persistent snow for hunting and denning, as it aids in thermoregulation and provides insulation for dens.

Prey Availability:

- Ungulates: Caribou and moose are significant prey species. Wolverines often scavenge on carcasses left by other predators.
- Small Mammals: Small mammals such as snowshoe hares and rodents also form a part of their diet.

Human Activity:

- Low Human Disturbance: Wolverine prefer areas with minimal human disturbance. High levels of human activity, such as logging, mining, and road networks, can negatively impact their habitat.

Landscape Features:

- Remote Areas: Remote, undisturbed regions are preferred for denning and rearing young.
- Elevations and Slopes: Diverse topography, including varying elevations and slopes, provide suitable microhabitats and travel corridors.

Climate and Environmental Conditions:

- Cold Climates: Wolverines are adapted to cold climates and are often found in areas with harsh winters and cooler summer temperatures.

Wolverine in Ontario are primarily associated with boreal and mixedwood forests, areas with deep snow cover, abundant prey, and minimal human disturbance. Studies within North America suggest that Wolverine inhabit a variety of treed and treeless areas at all elevations including the northern forested wilderness, the alpine tundra of the western mountains, and the arctic tundra (COSEWIC 2014). Many studies have examined seasonal habitat use by Wolverine across their western North America range and no consistent pattern of vegetation habitat associations has emerged (Gardner 1985; Johnson et al. 2005; May et al. 2006; Krebs et al. 2007; COSEWIC 2014). Instead, habitat use is best described as a function of large

undisturbed wilderness areas and seasonal variation in food abundance, denning requirements, or human disturbance (Johnson et al. 2005; May et al. 2006; Krebs et al. 2007; COSEWIC 2014).

1.2 Model Description

Wolverine have large home ranges and suitable habitat is likely defined by the distribution and abundance of food as well as habitat for denning (BC MOE 2004). Wolverine habitat selection likely occurs at a large scale (i.e., landscape) and therefore users must be cautious with interpretation of habitat suitability results at the site-level. The Wolverine model was developed for northern Ontario using the following assumptions derived from the literature:

- MECP has stated that based on Red Lake studies, ecosite b128 is most often associated with female Wolverine natal and maternal dens in northern Ontario.
- Residential, municipal and agricultural areas are non-habitat (Bowman et al. 2010; Copeland et al. 2007; Krebs et al. 2004; Krebs et al. 2007; May et al. 2006; Squires et al. 2007).
- Roads reduce habitat quality (Bowman et al. 2010; Copeland et al. 2007; Krebs et al. 2004; Krebs et al. 2007; May et al. 2006; Squires et al. 2007).
- Copeland et al. (2010) has shown a strong correlation between global Wolverine distribution and persistent spring snow cover. Persistent spring snow cover is important for Wolverine maternal denning and potential resource extension of snow-buried food caches (Inman et al. 2012).

Based on these assumptions, three suitability indices were defined for the wolverine HSI model: presence of high-suitability denning ecosystem type (b128), average snow cover in May, and anthropogenic disturbance. Each suitability index is described below.

1.2.1 Ecosystem Type SI(1)

Many studies have examined seasonal habitat use by Wolverine across their range and no clear pattern of vegetation habitat associations has emerged (Gardner 1985; Johnson et al. 2005; May et al. 2006; Krebs et al. 2007; COSEWIC 2014). The MECP reports that in northern Ontario habitat type B128 (Intermediate Conifer Swamp) is most commonly associated with natal and maternal dens. Intermediate Conifer Swamps have canopies consisting of Black Spruce and presence of Tamarack, and Speckled Alder; moss, woody debris, and conifer litter are common. Some studies have found association with forested areas that could provide food caching sites, rest areas, and means to avoid predators (Boles 1977; Wright and Ernst 2004). Krebs et al. (2007) suggested that non-vegetated habitats where prey availability is low are generally avoided by Wolverine. Wolverines can occur in most ecosystem types, and factors such as food accessibility and proximity to human disturbance may influence Wolverine habitat suitability more than specific habitat attributes (Petersen 1997, Krebs et al. 2007). The vector file was converted to vector format and a 500 m x 500 m raster clipped to the RSA where each cell represented the dominant ecosystem type.

All Intermediate Conifer Swamps (B128) which are most commonly associated with documented Wolverine denning to date receive a suitability score of 1.0. All natural terrestrial ecosystems present in the RSA area assigned a high suitability score of 0.8. Anthropogenic land cover is assigned a suitability score of zero.

Table 1–1: Wolverine SI(1): Ecosystem Type

Ecosystem Type	His Value
Intermediate Conifer Wetland (B128)	1.0
All other natural ecosystem types	0.8
All non-natural ecosystem types and open water bodies	0

1.2.2 Persistent Spring Snow SI(2)

Female Wolverine typically establish dens in snow tunnels leading to masses of fallen trees (Magoun and Copeland 1998; Lofroth 2001). Copeland et al. (2010) have argued that persistent spring snowpack is the fundamental limiting factor for successful Wolverine denning and that the geographic distribution of Wolverine is limited by availability of persistent snowpack. Therefore, areas with persistent spring snow cover through the month of May are assigned a suitability score of 1.0. For each of 2023 and 2024, the average monthly snow cover was calculated for May; raster pixels (30m) with evidence of snow cover received a value of 1.0 and raster pixels without snow a value of zero. These values were summed across the two years to derive the spatial covariate spring snow cover (mean summed pixel value). Snow cover data was obtained from the NASA earth data website (https://search.earthdata.nasa.gov/search). We averaged daily moderate resolution imaging spectroradiometer data (MODIS/Terra Snow Cover Daily L3 Global 500m SIN Grid V061) across the month of May separately for 2023 and 2024. We then took the average of both years to obtain the average percent snow cover. The final covariate was a 500 m x 500 m raster clipped to the RSA where each cell represented the average percent snow cover across 2023 and 2024.

1.2.3 Anthropogenic Disturbance SI(3)

Many studies indicate that Wolverine avoid areas of human disturbance and resource development, especially areas of high road density (Krebs et al. 2007; Bowman et al. 2010; Fisher et al. 2013; Heim et al. 2019), which may impact behaviour patterns such as denning, kit rearing, travel, and foraging. However, recent research suggests that Wolverine, including denning females, may be tolerant of some types disturbance in their home ranges (Heinemeyer and Squires 2013, 2014; Scrafford and Boyce 2014; Scrafford et al. 2017), possibly because disturbed areas provide enhanced foraging opportunities (Scrafford et al. 2017). Scrafford et al. (2018) found that Wolverine avoided roads, and increased movement rates in proximity to roads with higher traffic.

A suitability index was applied to penalize potential habitats adjacent to anthropogenic disturbances using a buffer approach. Buffer width was dependant on the disturbance type (Table 2). Distance to roads and road density were obtained by first merging the Ontario Roads Network and MNRF Roads layers. The resulting layer was converted to a 500mx500m raster and the distance to the nearest cell containing a road was calculated for all cells. Road density was first calculated as the length of road contained within each raster cell. Similar to the snow cover covariate. Where buffers intersected, the greater value was retained. Areas within the buffer are assigned an SI(3) value of 0.5 or 0.3. Areas outside the buffer are assigned an SI(3) value of 1.0.

Table 1–2: Wolverine SI(3): Anthropogenic Disturbance

Type Of Disturbance	Buffer Width (M)	HSI Value
Winter Roads, Gravel Roads, Forestry Access, Transmission Lines	500	0.5
Year-round operations and facilities (e.g., buildings), municipal areas, all-season (paved) roads	1,000	0.3

1.2.4 Model Equation

The three suitability indices outlined above were combined to form the Wolverine HSI model using the following equation:

$$HSI_{wolverine} = SI(1) * SI(2) * SI(3)$$

HSI values ranging from 0.0 to 1.0 were calculated by multiplying each raster grid (500 m x 500 m) and deriving a cumulative HSI score for each 500 m x 500 m grid square. Cumulative HSI was then separated into four bins, hereafter referred to as HSI scores (Table 3).

Table 1–3: Predicted Wolverine Habitat Suitability Index (HSI) Values and Corresponding HSI Scores

HSI Score	Qualitative Rank	HSI Value
1	Nil	0.0
2	Low	0.0 – 0.2
3	Moderate	0.2 – 0.6
4	High	0.6 – 1.0

Note:
If an HSI value fell on a cut-point (0.2, 0.6, etc.), the value was included in the lower HSI score.

1.3 Model Validation

Survey types targeting Wolverine in the Study Areas include remote camera monitoring and winter track surveys. While presence data is available from the run-pole program, validation of the HSM is complicated by the presence of bait at each of the run-pole stations; the bait may alter Wolverine behaviour and habitat use.

Although validation was not possible and the predictive accuracy of the model remains uncertain, the model description represents the current state of knowledge regarding the ecology and habitat preferences of Wolverine in northwestern Ontario.