**Appendix B:** 

**Avian Study** 



## BASELINE AVIFAUNA SURVEYS FINAL REPORT GAETZ BROOK COMMUNITY WIND PROJECT

June 21, 2013



Taking **Charge**™



June 21, 2013

Mr. Andy MacCallum
Natural Forces Technologies Inc.
#1205 – 1801 Hollis Street
Halifax, NS B3J 3N4

Dear Mr. MacCallum,

Re: Baseline Avifauna Surveys, Final Report Gaetz Brook Community Wind Project

Attached is the Baseline Avifauna Surveys, Final Report prepared for the Gaetz Brook Community Wind Project in Gaetz Brook, Nova Scotia.

This report documents our observations, findings, and recommendations.

We trust this report to be satisfactory at this time. Once you have had an opportunity to review this correspondence, please contact us to address any questions you may have.

Thank you,

Andy Walter, P.Eng Environmental Specialist awalter@strum.com Carys Burgess, MMM Senior Environmental Specialist

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#### 1.0 INTRODUCTION

Strum Consulting was commissioned to complete avifauna surveys at the location of a proposed wind energy development located at Gaetz Brook, Nova Scotia (the Project), on behalf of Natural Forces Technologies Inc. The objective of this study was to gather baseline data on avifauna during all key stages in the annual cycle at the Project site to facilitate pre- and post-construction comparisons, and to inform the Project planning process.

This report presents the survey results, with interpretation.

#### 2.0 PROJECT SITE DESCRIPTION

Natural Forces Technologies Inc. has proposed the development of a single turbine wind farm at Gaetz Brook, within the Halifax Regional Municipality of Nova Scotia (Drawing 1, Appendix A). The Project site consists of 47.4 ha of softwood forest and cutovers less than 4 km from the Chezzetcook mudflats. The landscape in the general Project area is typified by clear-cut areas interspersed with windthrow and mid-aged to mature softwood stands.

#### 3.0 RELEVANT LEGISLATION

Birds in Nova Scotia have protection under both provincial and federal legislation. Most bird species, including waterfowl and insectivorous birds, are protected under the federal *Migratory Birds Convention Act (MBCA)*, 1994 (S.C. 1994, c. 22), which prohibits the killing of a migratory bird as well as the disturbance, destruction, and take of a migratory bird egg or nest without a permit from Environment Canada. Birds of prey and upland game birds, meanwhile, are not protected under the *MBCA* but instead have similar protection under the provincial *Wildlife Act (R.S.N.S. 1989, c. 504)*.

Certain bird species have been afforded further protection under additional provincial and federal legislation. At the federal level, the *Species at Risk Act (SARA) (S.C. 2002, c. 29)* prohibits the killing, harming, harassment, or capture of species listed as 'endangered' or 'threatened' under the *Act*, as well as the destruction of critical habitat for these species. The provincial *Endangered Species Act S.N.S. 1998, c. 11)*, meanwhile, prohibits the killing, injuring, possession, or disturbance of a species listed as 'endangered' or 'threatened' under the Act, as well as the disturbance or destruction of dwelling places/areas for these species. It is important to note that the species and designations listed under the respective Acts are not necessarily the same.

Different levels of government are involved in the protection of birds and bird habitat through environmental assessment approval or through approval related monitoring program requirements. These include the following federal and provincial departments:

- Environment Canada Canadian Wildlife Services (CWS);
- Nova Scotia Department of Natural Resources (NSDNR) Wildlife Division; and
- Nova Scotia Environment (NSE).



#### **4.0 AVIAN SURVEYS**

Details of methodologies and results of the avian surveys are provided below. All surveys were conducted by an expert birder and were designed in consultation with officials from NSDNR and CWS while conforming to protocols outlined in the document "Recommended Protocols for Monitoring Impacts of Wind Turbines on Birds" (CWS 2007).

#### 4.1 Breeding Season

#### 4.1.1 Methodology

Use of the Project site by breeding birds was evaluated using the point count methodology. This method consists of establishing survey locations at least 300 m apart, with considerations for habitat types and species of conservation concern, and counting all birds observed/heard during a 10 minute period. Surveys were conducted within 4 hours of sunrise, to encompass the periods of highest bird activity, during site visits on June 21 and July 12, 2012. A total of 14 point count surveys were conducted at seven locations (Drawing 2, Appendix A).

Identified species were assigned one of three breeding classifications as per the criteria outlined in the Maritime Breeding Bird Atlas Guide for Atlassers (MBBA 2006). In this classification scheme, species are designated as "Possible", "Probable", or "Confirmed" breeders on the basis of behavioural observations.

#### 4.1.2 Results

There were 53 species, consisting of 1,141 individual birds, recorded during the breeding season surveys. A total of 12 of these species were considered "Confirmed breeders", while 19 were considered at least "Probable" breeders (Table B1, Appendix B). An average of  $81.5 \pm 15.75$  (mean  $\pm 95\%$  confidence interval) birds were detected per survey, with an average of  $21.1 \pm 2.83$  species detected per survey.

American Robin (*Turdus migratorius*), White-throated Sparrow (*Zonotrichia albicollis*), and Magnolia Warbler (*Dendroica magnolia*) were the most abundant species during the surveys, while Common Yellowthroat (*Geothlypis trichas*) was among the most frequently observed species. Passerines were the dominant group, but the bird community at the Project site during the breeding season is also influenced by the proximity of the coast.

Non-passerine species observed during the breeding bird surveys included: Canada Goose (*Branta canadensis*), Common Loon (*Gavia immer*), Common Merganser (*Mergus merganser*), Common Snipe (*Gallinaga gallinaga*), Great Black-backed Gull (*Larus marinus*), Great Blue Heron (*Ardea Herodias*), Hairy Woodpecker (*Picoides villosus*), Herring Gull (*Larus argentatus*), Northern Flicker (*Colaptes auratus*), Red-tailed Hawk (*Buteo jamaicensis*), Ring-billed Gull (*Larus delawarensis*), Ruby-throated Hummingbird (*Archilochus colubris*), Tree Swallow (*Tachycineta bicolor*), and Willet (*Tringa semipalmata*).



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Species observed during the breeding surveys were screened against the criteria outlined in the document "A Guide to Addressing Wildlife Species and Habitats in an EA Registration Document" (NSE 2009) to develop a list of priority species. The following priority species were observed during breeding bird surveys at the Project site (Drawing 3, Appendix A):

- Canada Warbler (Wilsonia canadensis) "Red" (NSDNR 2010), "Threatened" (COSEWIC 2013), "Threatened" (Government of Canada 2013);
- Common Loon "Red" (NSDNR 2010);
- Common Snipe "Yellow" (NSDNR 2010);
- Golden-crowned Kinglet (Regulus satrapa) "Yellow" (NSDNR 2010);
- Pine Siskin (Spinus pinus) "Yellow" (NSDNR 2010);
- Ruby-crowned Kinglet (Regulus calendula) "Yellow" (NSDNR 2010);
- Tree Swallow "Yellow" (NSDNR 2010);
- Willet "Red" (NSDNR 2010);
- Wilson's Warbler (Wilsonia pusilla) "Yellow" (NSDNR 2010); and
- Yellow-bellied Flycatcher (Empidonax flaviventris) "Yellow" (NSDNR 2010).

Canada Warbler is the only species with legal protection under either *SARA* or *NSESA* that was observed during breeding bird surveys at the Project site. This species was considered a "Probable" breeder due to the observation of a pair of adults in appropriate habitat during the breeding season.

Detailed results are provided in Table B2, Appendix B.

#### 4.2 Shorebirds

#### 4.2.1 Methodology

The use of the general Project area by shorebirds in the late summer was evaluated using the watch count methodology. This method consists of establishing a vantage point allowing a high degree of shoreline/open water visibility, and recording data on species composition/abundance, behaviour, and flight routes to and from shoreline/intertidal foraging areas. Shorebird surveys were designed to encompass both low and high tides, and were conducted during visits to the general Project area on August 22 and September 7. A total of seven watch counts were carried out at six locations (Drawing 4, Appendix A).

#### 4.2.2 Results

There were 13 species, consisting of 1,008 individual birds, recorded during shorebird watch counts (Table B3, Appendix B). Semipalmated Plover (*Charadrius semipalmatus*) and Semipalmated Sandpiper (*Calidris pusilla*) were the most abundant species. Herring Gull and American Black Duck (*Anas rubripes*) were the most frequently observed species.

Average shorebird abundance at the Project site was  $38 \pm 17.63$  birds/survey, compared to  $236 \pm 376.72$  in the areas surrounding the Project site. This was due primarily to single observations of large flocks of Semipalmater Plover and Semipalmated Sandpiper along the Chezzetcook Inlet to



the south of the Project site. These large observations also account for the high degree of variability observed in the numbers of birds/survey in the lands surrounding the Project site. Species observed during the shorebird surveys were screened against the criteria outlined in the document "A Guide to Addressing Wildlife Species and Habitats in an EA Registration Document" (NSE 2009) to develop a list of priority species. The following priority species were observed during shorebird surveys at the Project site (Drawing 5, Appendix A):

- Greater Yellowlegs (*Tringa melanoleuca*) "Yellow" (NSDNR 2010);
- Semipalmated Sandpiper "Yellow" (NSDNR 2010);
- Spotted Sandpiper (Actitis macularius) "Yellow" (NSDNR 2010); and
- Willet "Red" (NSDNR 2010).

No species with legal protection under either *SARA* or *NSESA* were observed during shorebird surveys in the general Project area.

Detailed results are provided in Table B4, Appendix B.

#### 4.3 Fall Migration

#### 4.3.1 Methodology

Use of the Project site by birds in the fall migration season was evaluated using the stopover count methodology. This method consists of walking 300 m transects and recording all birds observed/heard, as well as noting the distance to the observer or flight direction, in the case of flyovers. Surveys were conducted within 4 hours of sunrise, to encompass the peak foraging times for insect and seed eating passerine migrants, during site visits on September 17 and October 4, 2012. Survey dates were chosen based on the availability of suitable weather conditions and to coincide with the peak migration periods for insect eating and seed eating migrants in Nova Scotia. A total of 18 stopover count surveys were carried out, each at a different location (Drawing 4, Appendix A).

#### 4.3.2 Results

There were 51 species, consisting of 1,014 individual birds, recorded during fall migration surveys (Table B5, Appendix B). An average of 56.33 ± 12.33 (mean ± 95% confidence interval) birds were detected per survey, with an average of 13.5 ± 2.04 species detected per survey. A total of 38 of the species recorded during fall migration surveys were also present during breeding season surveys. Yellow-rumped Warbler (*Dendroica coronata*), Dark-eyed Junco (*Junco hyemalis*), and Black-capped Chickadee (*Poecile atricapillus*) were the most abundant species during the surveys. American Crow (*Corvus brachyrhynchos*) was also among the most frequently observed species. Passerines dominated the fall bird community, although non-passerine species observed during the fall migration surveys included: American Black Duck, American Woodcock (*Scolopax minor*), Common Loon, Common Merganser, Common Nighthawk (*Chordeiles minor*), Downy Woodpecker (*Picoides pubescens*), Hairy Woodpecker, Northern Flicker, Osprey (*Pandion haliaetus*), Ruffed Grouse (*Bonasa umbellus*), and Spruce Grouse (*Falcipennis canadensis*).



Species observed during the fall migration surveys were screened against the criteria outlined in the document "A Guide to Addressing Wildlife Species and Habitats in an EA Registration Document" (NSE 2009) to develop a list of priority species. The following priority species were observed during fall migration surveys at the Project site (Drawing 7, Appendix A):

- Blackpoll Warbler (Dendroica striata) "Yellow" (NSDNR 2010);
- Boreal Chickadee (Poecile hudsonicus) "Yellow" (NSDNR 2010);
- Common Loon "Red" (NSDNR 2010);
- Common Nighthawk "Red" (NSDNR 2010), "Threatened" (COSEWIC 2013), "Threatened" (SARA 2013), "Threatened" (NSESA 2007);
- Golden-crowned Kinglet (Regulus satrapa) "Yellow" (NSDNR 2010);
- Gray Jay (Perisoreus canadensis) "Yellow" (NSDNR 2010);
- Pine Siskin (Spinus pinus) "Yellow" (NSDNR 2010); and
- Ruby-crowned Kinglet (Regulus calendula) "Yellow" (NSDNR 2010);

Common Nighthawk is the only species with legal protection under either SARA or NSESA that was observed during fall migration surveys at the Project site.

Detailed results are provided in Table B6, Appendix B.

#### 4.4 Winter

#### 4.4.1 Methodology

Use of the Project site by birds during the winter season was evaluated using the area search methodology. This method consists of establishing survey locations in priority habitats and recording all birds observed/heard, as well as the approximate distance from the observer. Surveys were conducted within 4 hours of sunrise, to encompass peak activity times for over-wintering passerines, during a site visit on January 15, 2013. The survey date was chosen based on the availability of suitable weather conditions that are representative of winter conditions in Nova Scotia. A total of seven area search surveys were carried out, each at a different location (Drawing 2, Appendix A).

#### 4.4.2 Results

There were 10 species, consisting of 68 individual birds, recorded during winter surveys (Table B7, Appendix B). An average of 9.71 ± 3.69 (mean ± 95% confidence interval) birds were detected per survey, with an average of 3.57 ± 1.34 species detected per survey. American Crow, Black-capped Chickadee, and Common Redpoll (*Acanthis flammea*) were the most abundant species during the surveys, while American Crow, Black-capped Chickadee, and Golden-crowned Kinglet were the most frequently observed species. Passerines dominated the winter bird community, although non-passerine species observed during these surveys included: American Black Duck and Herring Gull.

Species observed during the winter surveys were screened against the criteria outlined in the document "A Guide to Addressing Wildlife Species and Habitats in an EA Registration Document"



(NSE 2009) to develop a list of priority species. The following priority species were observed during winter surveys at the Project site (Drawing 8, Appendix A):

- Boreal Chickadee "Yellow" (NSDNR 2010);
- Golden-crowned Kinglet "Yellow" (NSDNR 2010); and
- Gray Jay "Yellow" (NSDNR 2010);

No species with legal protection under either *SARA* or *NSESA* was observed during winter surveys at the Project site.

Detailed results are provided in Table B8, Appendix B.

#### 4.5 Spring Migration

#### 4.5.1 Methodology

Use of the Project site by birds during the spring migration season was evaluated using the stopover count methodology (see Section 4.3.1). A total of 53 stopover count surveys were carried out during site visits on May 7<sup>th</sup>, 22<sup>nd</sup>, 30<sup>th</sup>, and June 16<sup>th</sup>, 2013 (Drawing 9, Appendix A). Survey dates were chosen to coincide with weather conditions potentially affecting the distribution of spring migrants at the site, including fog and rain events. Surveys were conducted based upon the expected peak of spring passerine migration in the general Project area, based on local knowledge and consultations with NSDNR.

#### 4.5.2 Results

There were 53 species, consisting of 944 individual birds, recorded during spring migration surveys (Table B9, Appendix B). An average of 18.19 ± 2.24 (mean ± 95% confidence interval) birds were detected per survey, with an average of 10.7 ± 0.99 species detected per survey. White-throated Sparrow, Magnolia Warbler (, and Common Yellowthroat were the most abundant and frequently observed species during the surveys. The bird community was dominated by migrant passerines, which accounted for 54.7% of the species and 80.7% of the individuals observed. Non-passerine species observed during the spring migration surveys included: American Black Duck, Common Loon, Double-crested Cormorant (*Phalacrocorax auritus*), Great Blue Heron, Hairy Woodpecker, Herring Gull, Northern Flicker, Osprey, Pileated Woodpecker (*Dryocopus pileatus*), Ring-necked Pheasant (*Phasianus colchicus*), Ruffed Grouse, and Sharp-shinned Hawk (*Accipiter striatus*).

Species observed during the spring migration surveys were screened against the criteria outlined in the document "A Guide to Addressing Wildlife Species and Habitats in an EA Registration Document" (NSE 2009) to develop a list of priority species. The following priority species were observed during spring migration surveys at the Project site (Drawing 10, Appendix A):

- Blackpoll Warbler "Yellow" (NSDNR 2010);
- Boreal Chickadee "Yellow" (NSDNR 2010);
- Canada Warbler "Red" (NSDNR 2010), "Threatened" (COSEWIC 2013), "Threatened" (SARA 2013);



- Common Loon "Red" (NSDNR 2010);
- Golden-crowned Kinglet "Yellow" (NSDNR 2010);
- Tennessee Warbler (Oreothlypis peregrine) "Yellow" (NSDNR 2010); and
- Yellow-bellied Flycatcher "Yellow" (NSDNR 2010).

Canada Warbler is the only species with legal protection under either *SARA* or *NSESA* that was observed during fall migration surveys at the Project site.

Detailed results are provided in Table B10, Appendix B.

#### 5.0 DISCUSSION

The Project site appears to support a reasonably vibrant breeding bird community in terms of species diversity and overall abundance. Typically, the highest density and most diverse breeding bird communities are found in mid-successional habitats (Davis and Browne 1996). Habitat types at the site include treed swamps interspersed with mid-aged, coniferous dominated forests, with cleared/disturbed areas at its eastern and western extents. This habitat diversity accounts for the density of breeding passerines observed, particularly those commonly associated with regenerating/shrubby habitats, such as Alder Flycatcher (*Empidonax alnorum*), American Robin, Hermit Thrush (*Catharus guttatus*), Magnolia Warbler, and White-throated Sparrow. Treed swamp and coniferous forest habitat, meanwhile, supports relatively high densities of breeding Common Yellowthroat and Dark-eyed Junco (*Junco hyemalis*). The Project site generally lacks mature forest, however, which likely accounts for the absence and/or low density of breeding woodpeckers and birds of prey. Similarly, the Project site is of limited use to most breeding aerial insectivores, including swallows and swifts, due primarily to the lack of open-water bodies.

Canada Warbler was identified as a "Probable" breeder at the Project site, and was observed along the Project site's southern border. This location does not coincide with areas proposed for Project infrastructure; furthermore, suitable breeding habitat featuring a well-developed shrub layer (COSEWIC 2008) is prevalent at the Project site. An individual Canada Warbler was also observed in the same area during spring migration surveys. However, the low numbers of Canada Warbler at the Project site do not suggest that it is an area of particular importance from a population perspective, although effort should be taken to minimize disturbance to the established breeding location in the event of a realignment of Project infrastructure.

The results of the shorebird watch counts suggest that the Project site does not appear to be of importance to roosting shorebirds or staging waterfowl, and does not lie within an important flyway for shorebird or waterfowl migrants in the fall. Only one flock of Semipalmated Plovers was observed flying directly over the site, likely en route to the inter-tidal mudflats of the West Chezzetcook Marsh to the south. Birds observed from survey locations at the Project site were generally flying in a south/southeast direction, but were passing over lands to the south/southwest of the site. Some localized movements to the north, primarily by Herring Gull, were also observed.



Shorebird foraging activity was relatively high at coastal inlets to the south of the Project site, but habitats at the Project site are not favourable for roosting during high tide periods when foraging is limited. Likewise, the lack of open-water bodies at the Project site means that waterfowl species are unlikely to use the site directly, although a small lake that borders the western extent of the site may act as a staging area for migrating American Black Duck. Although unlikely, based upon field observations, shorebird and waterfowl foraging/staging in the general Project area may result in occasional collisions with turbine infrastructure during migration or movements between foraging and roosting areas. In general, however, waterbirds suffer very low mortality rates at wind energy facilities (Kingsley and Whittam 2005; EC et al. 2012).

Surveys indicate that the Project site is used by both resident and migrant species during September and October; the peak of fall migration for insect and seed eating passerines in Atlantic Canada. Overall, bird abundance was relatively consistent in these two months. However, resident species, or at least those that commonly over-winter in Nova Scotia, were dominant during the fall migration surveys. These species, which include American Crow, Black-capped Chickadee, Boreal Chickadee, and Golden-crowned Kinglet, were dominant at the Project site during winter surveys as well, although overall winter abundance was relatively low. Abundances of fall migrants were within the expected range, with Dark-eyed Junco and Yellow-rumped Warbler being the most numerous. However, most migrant flocks were relatively small, and no obvious migration corridors were indicated by the surveys. It is possible that the remaining conifer stands may attract nomadic flocks of finches and crossbills in the late fall/winter months, but movements of these species are highly variable from year-to-year and are based on cone crops in northern forests (Pittaway 1998). The presence of Evening Grosbeak (Coccothraustes vespertinus), Pine Siskin, and Purple Finch (Carpodacus purpureus) indicate that suitable food resources are available for finches at the Project site, but it is impossible to determine if future large-scale movements of this group will encompass the Project site. Common Redpoll, a white birch (Betula papyrifera) specialist, was also observed at the site during the winter surveys. This species is a common winter visitor recorded in Nova Scotia every year, although its distribution and abundance in the province varies greatly.

The disturbed nature of the Project site appears to support a diverse, if not particularly abundant, spring migrant community consisting predominantly of species that are common throughout the province. Early spring migrants, most notably White-throated Sparrow, Palm Warbler (*Dendroica palmarum*), and Yellow-rumped Warbler, are common at the Project site in early May, while the migrant pulse of wood warblers reached the site by the May 22, 2013 spring migration survey. By early June, reasonable numbers of Magnolia Warbler, Common Yellowthroat, Black-throated Green Warbler, and Black-and-white Warbler (*Mniotilta varia*) are present, which is consistent with observations during the 2012 breeding season. The close proximity of the Project site to the coast likely accounts for the presence of Blackpoll Warbler and Fox Sparrow (*Passerella iliaca*), albeit in very low numbers. Overall abundance and diversity, in terms of individuals and species observed/survey location, at the Project site during spring migration was significantly less than that observed during the fall migration period (F= 85.74, p= <0.01 and F= 7.20, p= <0.01, respectively).

Several priority species were observed during surveys at the Project site, suggesting that viable habitat for these species is present at various time of year. However, several of these species, most



notably those listed as "Yellow" (Vulnerable/Special Concern) by NSDNR including Boreal Chickadee, Golden-crowned Kinglet, Pine Siskin, and Ruby-crowned Kinglet, are still quite common in the forests of Nova Scotia, despite overall population declines on a regional scale. The Common Nighthawk observed during fall migration surveys was flying through the area to the south of the Project site, and was not observed to be using the site directly for either foraging or roosting. Canada Warbler, as discussed above, is present at the site during spring migration and breeding season, and care should be exercised to avoid undue disturbance to this species (e.g., avoidance of identified nesting sites if activities occur during breeding/nesting season).

Post-construction monitoring at wind energy installations across Canada indicates that passerines are the group most commonly affected, accounting for 70% of all bird fatalities (EC *et al.* 2012). Trends in mortalities for this group strongly reflect seasonal patterns, with peaks during spring and fall migration. High ridges and mountains are known to concentrate migrating birds, particularly passerines, along narrow corridors (Kingsley and Whittam 2005). The Project site is not located along such a ridge, and peak elevation is approximately 85 m. However, the Project site's proximity to the coast means that the local climate is strongly influenced by the ocean, which may give rise to conditions such as heavy fog. Fog, as well as drizzle, can cause nocturnal migrants to fly at lower altitudes which may coincide with the height of rotating turbine blades (Kingsley and Whittam 2005). However, collisions with wind turbines accounts for less than 1% of annual avian mortality resulting from anthropogenic sources; being far outweighed by collisions with buildings and power lines (Erickson *et al.* 2005).

Only one raptor was observed at or near the Project site during fall migration surveys. Flight direction suggests that this individual Osprey was likely not migrating but was instead commuting between waterbodies in the general Project area. Similarly, raptor observations during the spring migration period consisted of foraging Osprey, Sharp-shinned Hawk, and Northern Goshawk. Raptor migration routes often coincide with well-defined ridges, features which are lacking in the general Project area. Topographic and field evidence therefore suggests that the risk of raptor collision with Project infrastructure is quite low.

In summary, the data from avian surveys conducted during the 2012/2013 annual cycle suggest that, while the Project site supports a reasonable breeding and resident bird community, the establishment of a single-turbine wind energy installation is unlikely to significantly affect large numbers of birds by virtue of collisions with migrants. However, the Project location, along the Atlantic coast, does increase the risk slightly for migrating passerines and shorebirds.

#### **6.0 RECOMMENDATIONS**

It is recommended that any alterations to the proposed alignment of Project infrastructure be designed in consideration of identified priority species habitats. Furthermore, given the prevalence of disturbed areas at the Project site, avoidance of remnant mid-aged, coastal softwood stands would be desirable. Upon the installation of Project infrastructure, post-construction monitoring, including but not necessarily limited to carcass searches, should also be completed.



#### 7.0 REFERENCES

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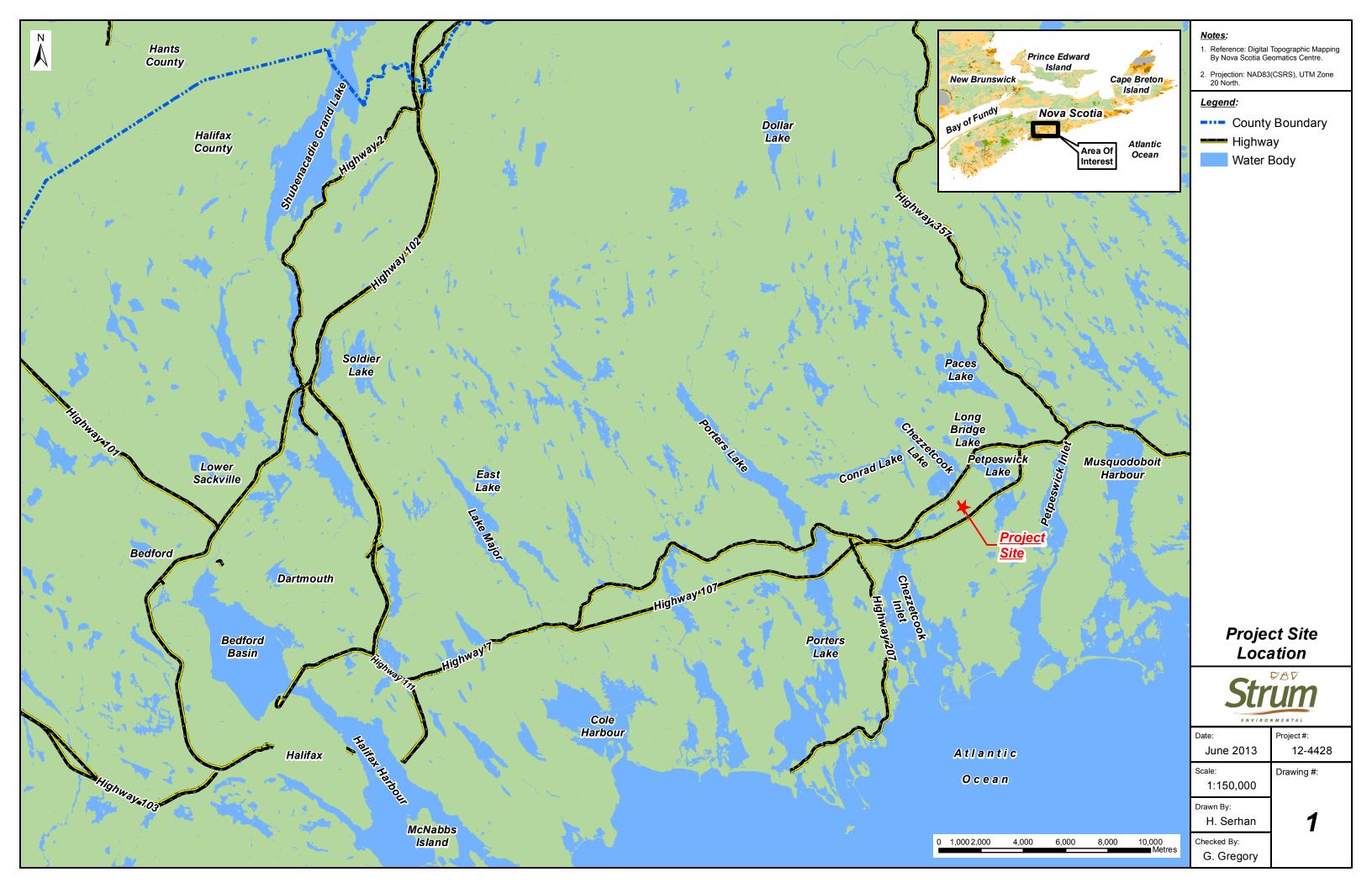
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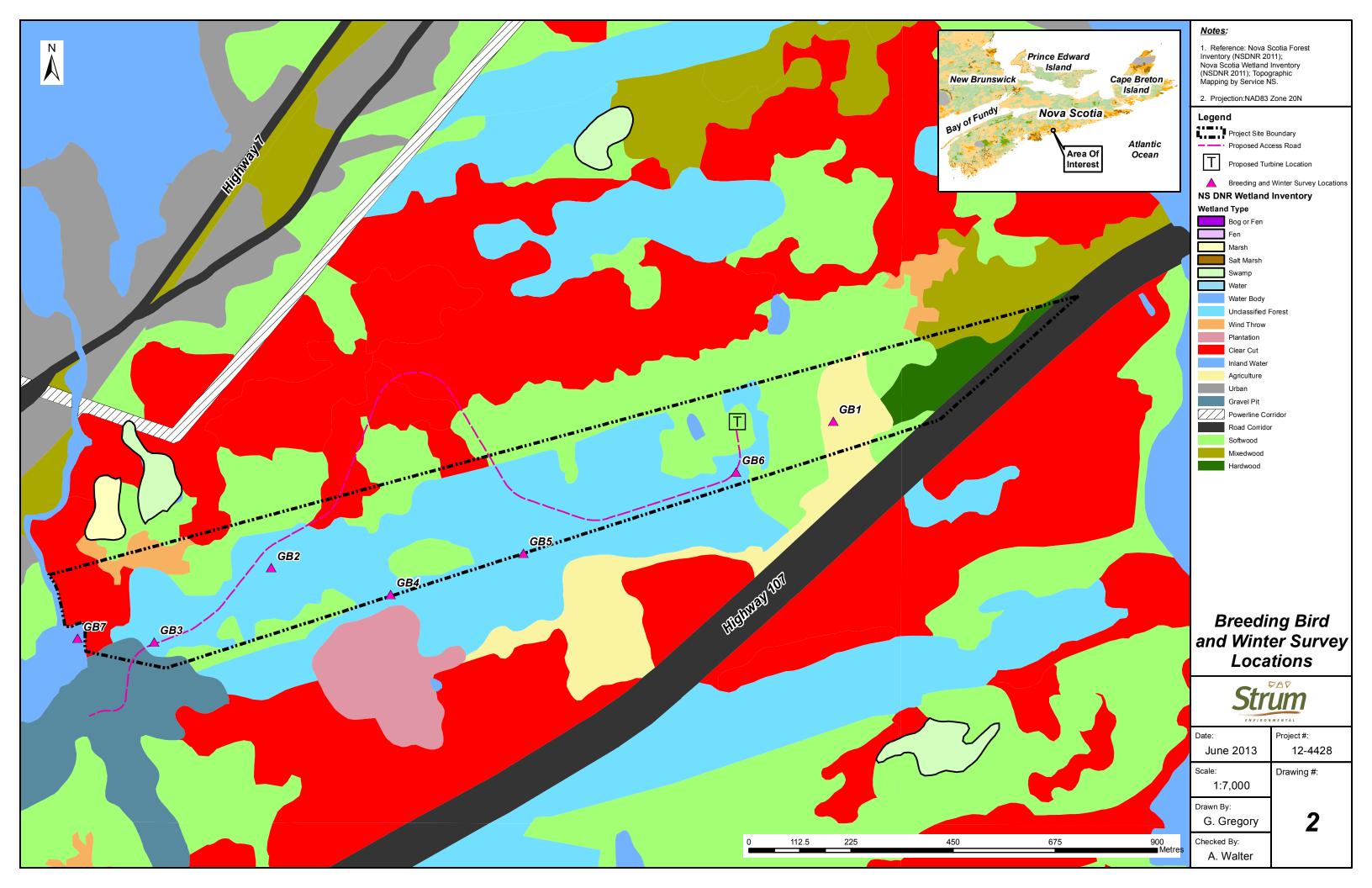
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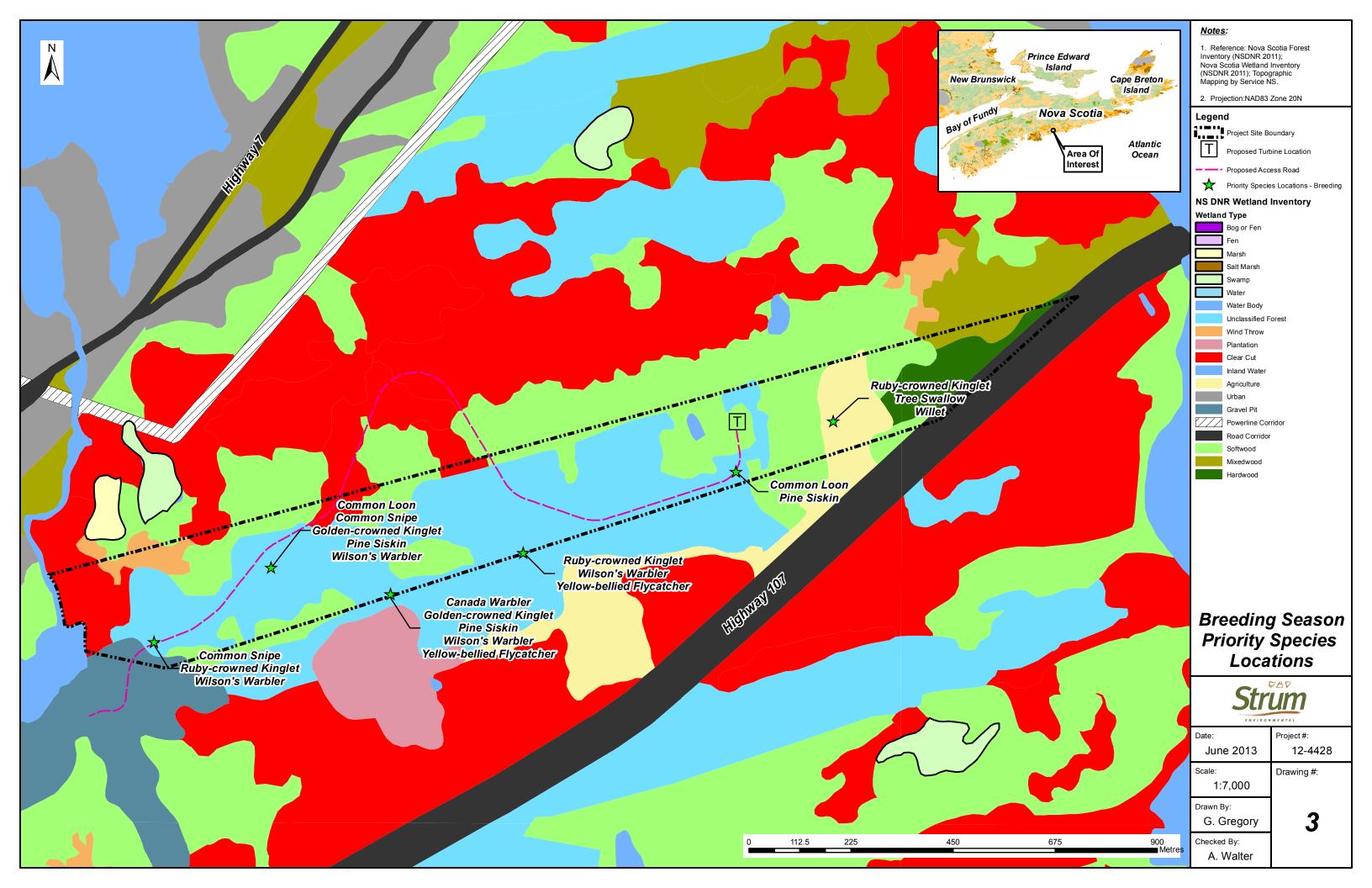
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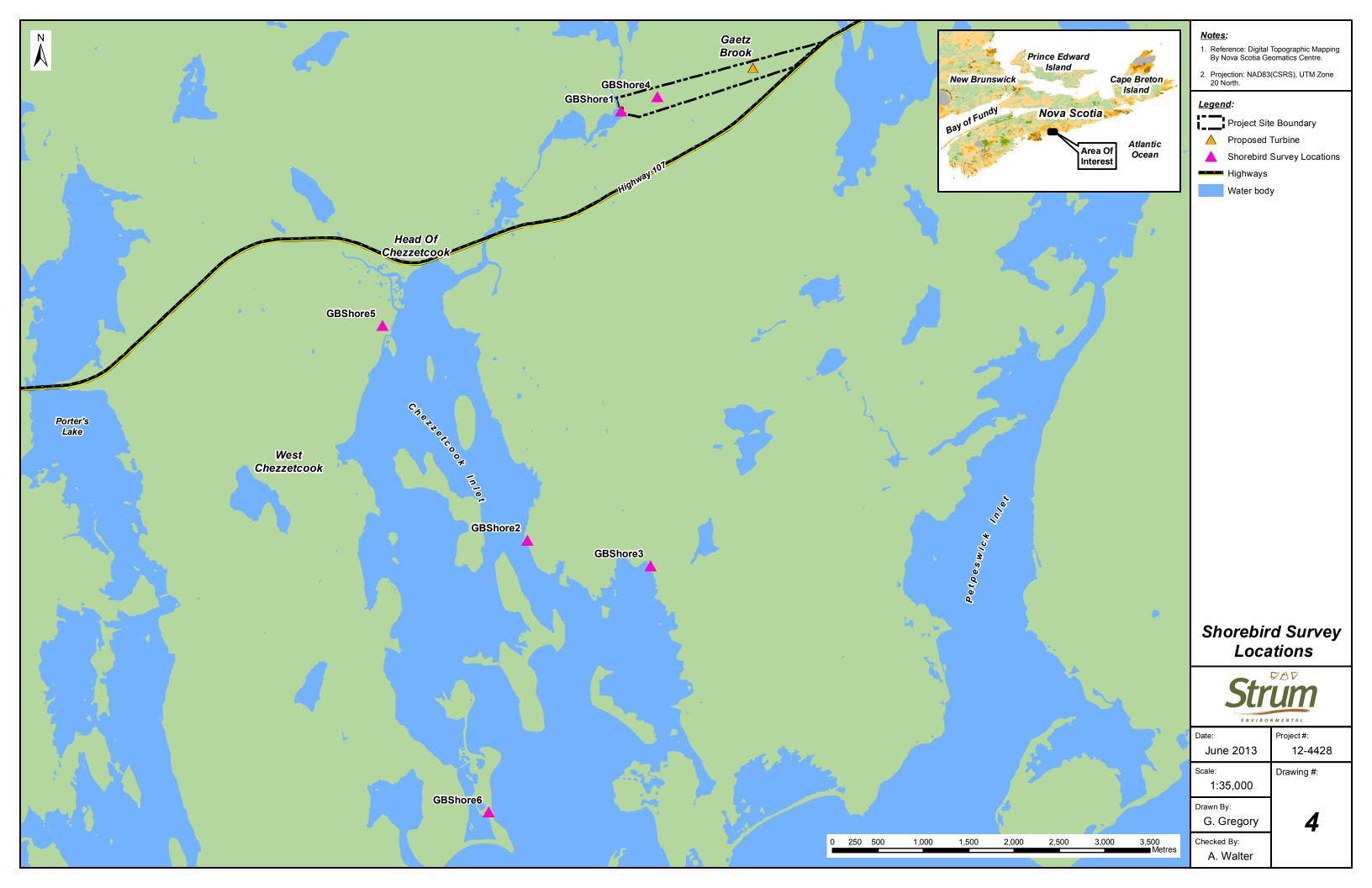


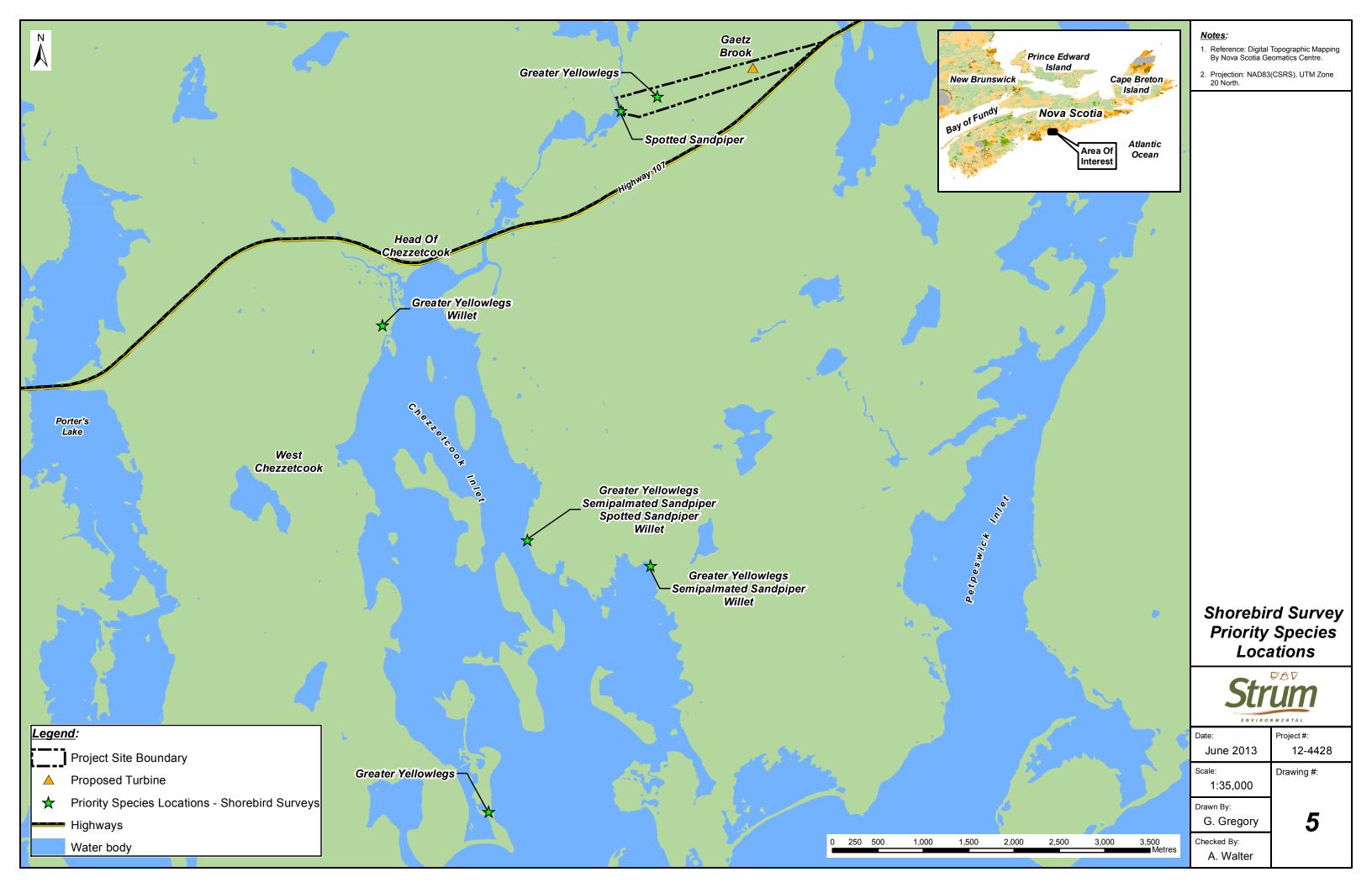
# APPENDIX A DRAWINGS

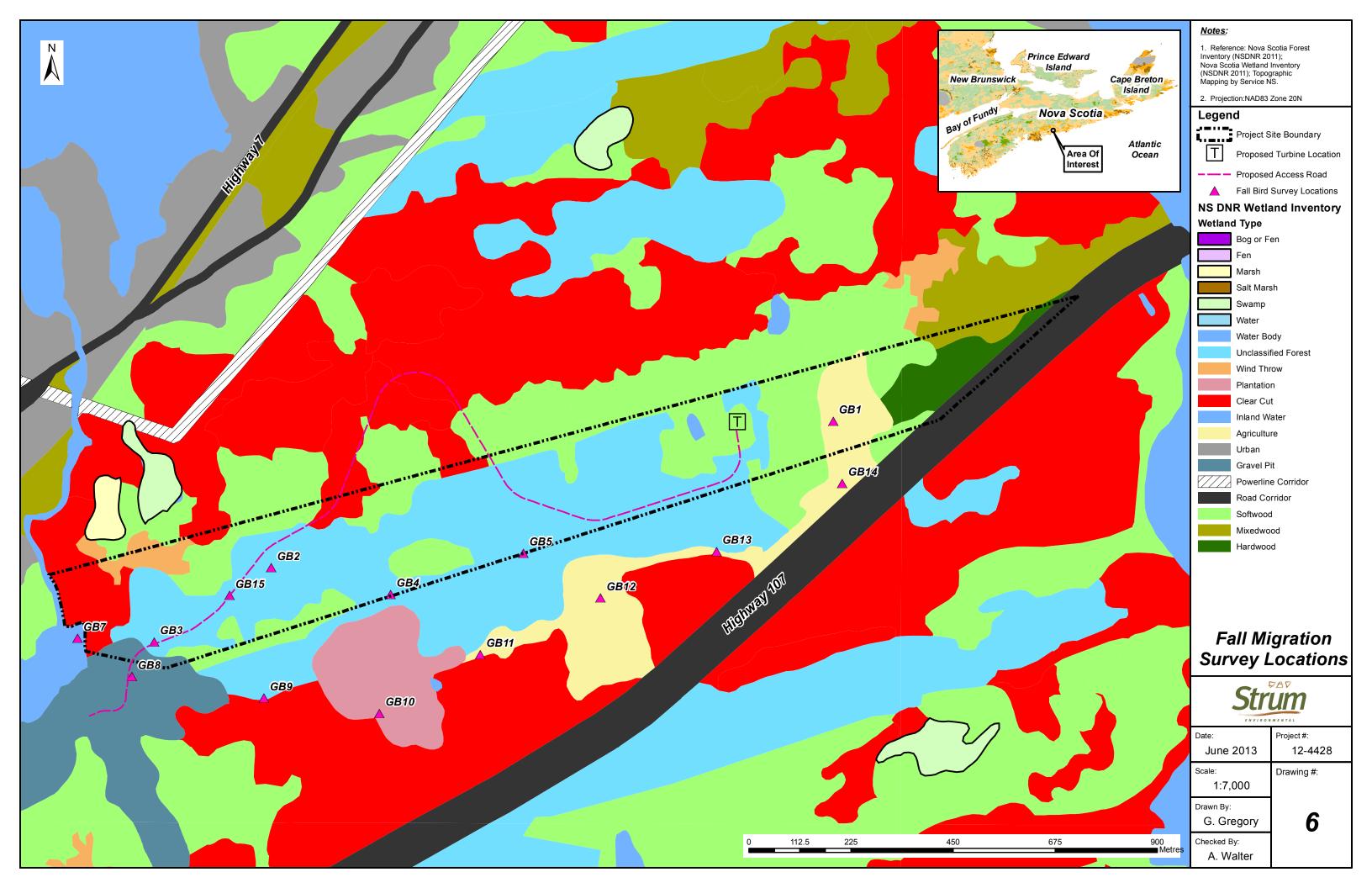


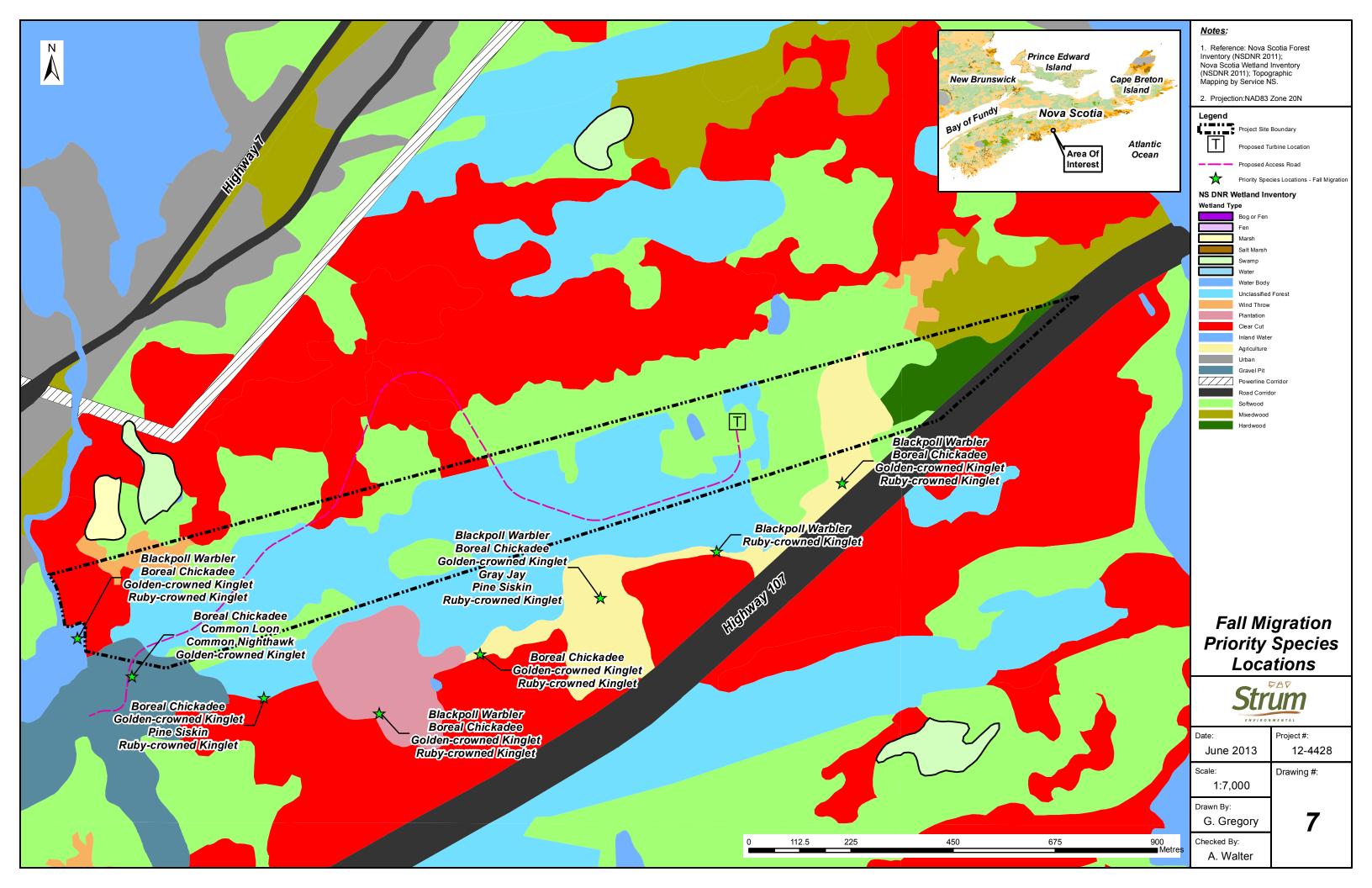


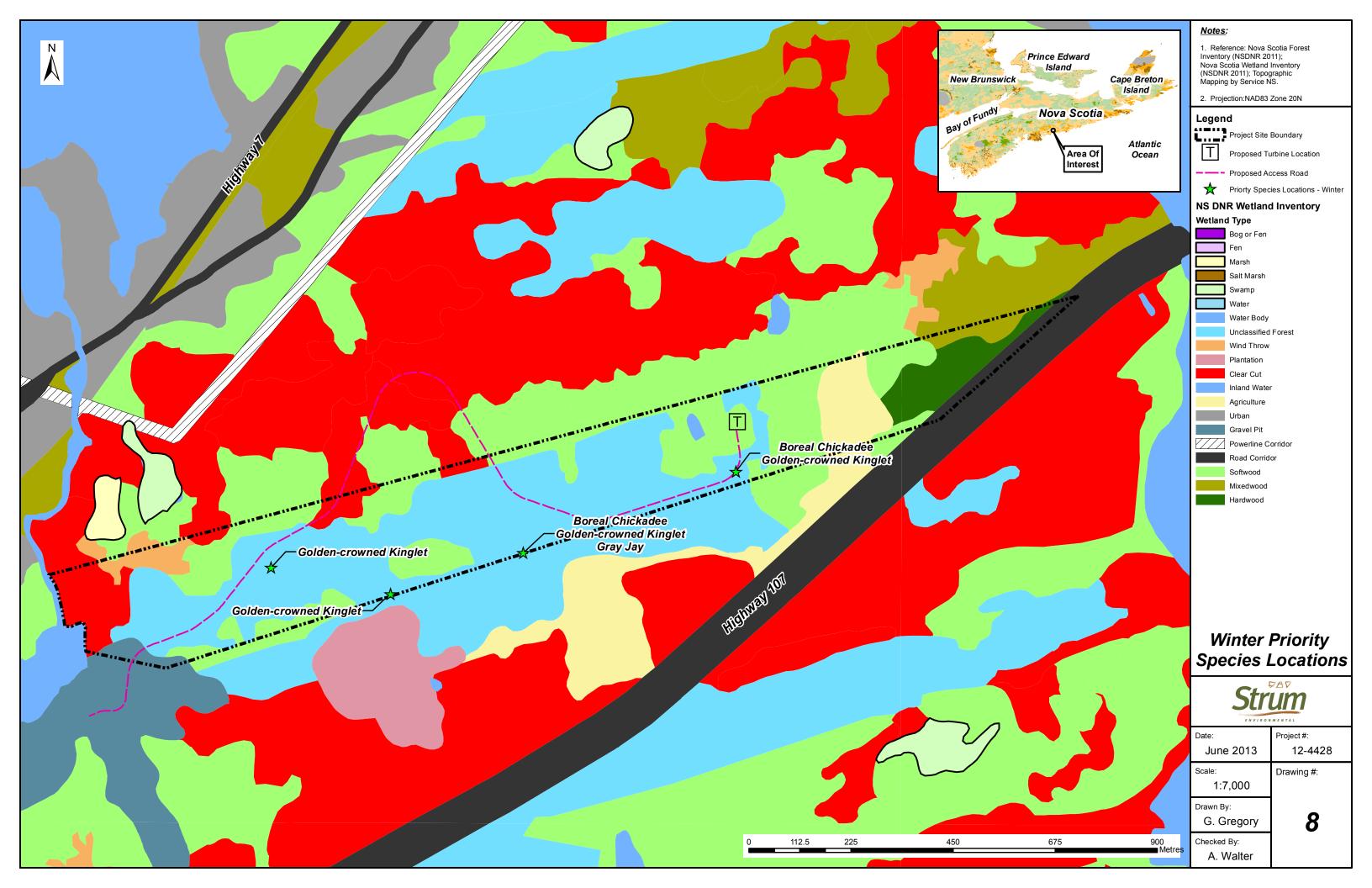


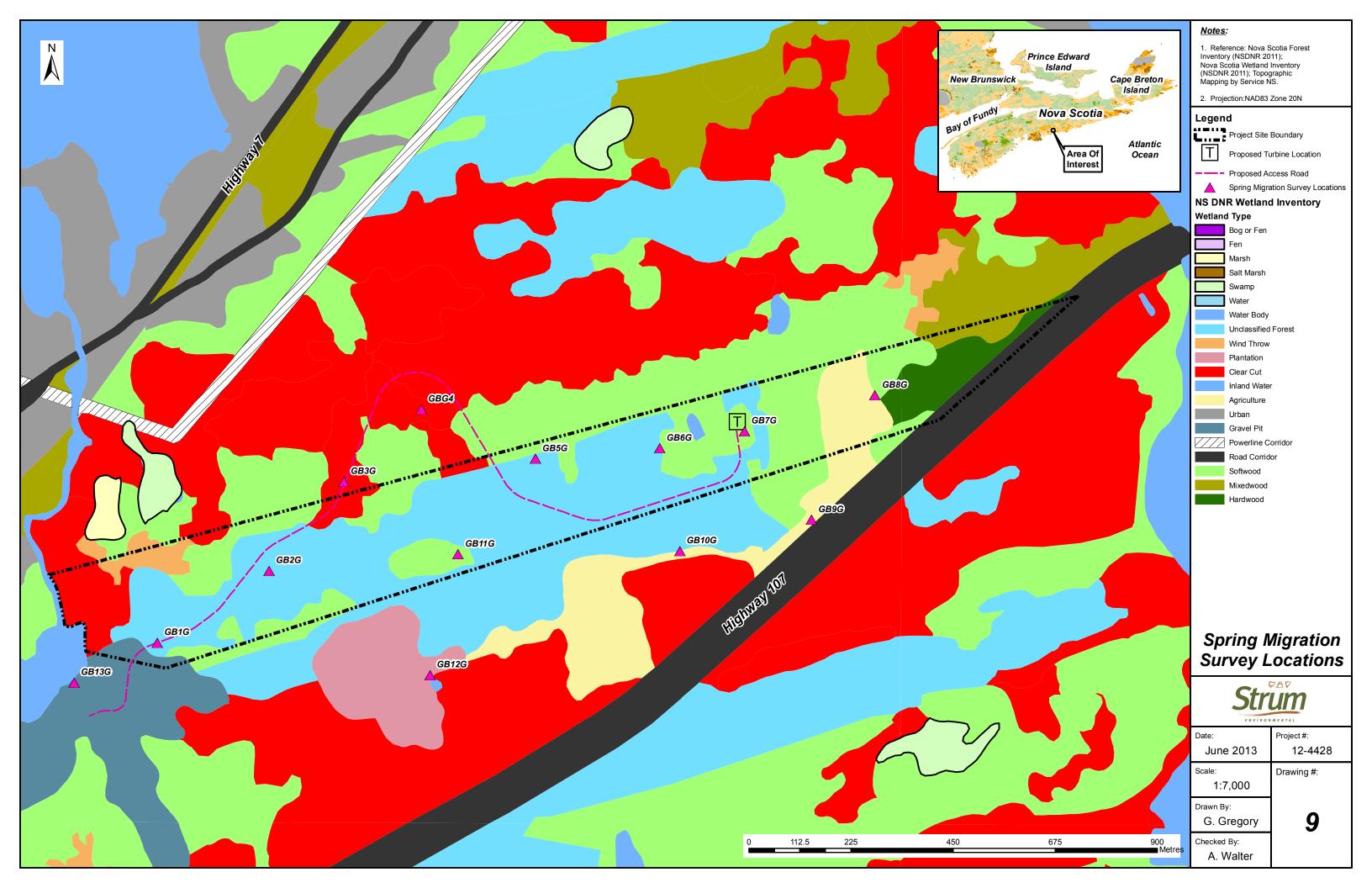


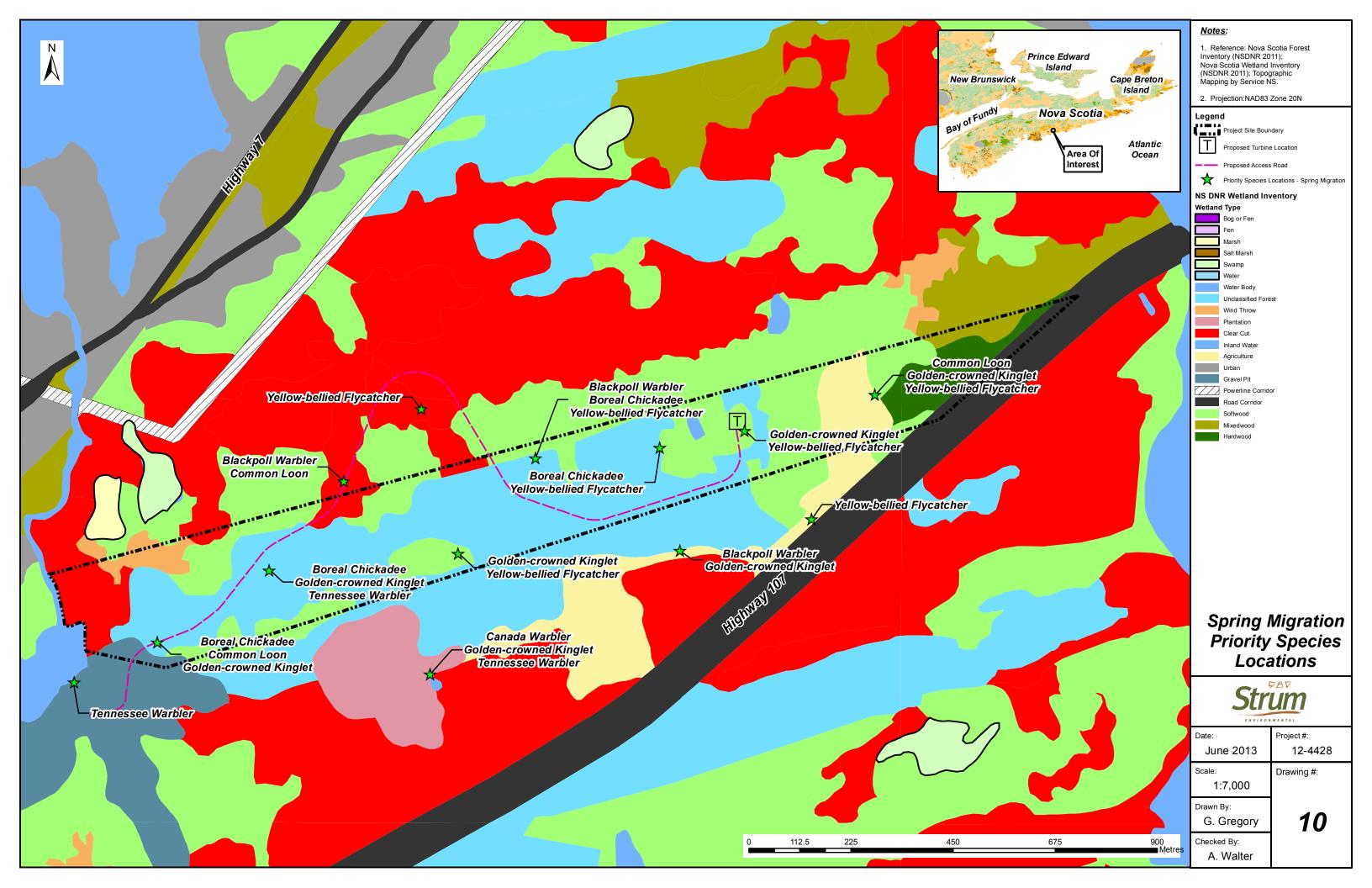










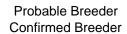


### APPENDIX B SURVEY RESULTS

			Total				
		Number of	Individuals	NSDNR	COSEWIC	SARA	NSESA
Common Name	Scientific Name	Observations	Observed	Status	Status	Status	Status
Alder Flycatcher	Empidonax alnorum	17	50	Green	Not Listed	Not Listed	Not Listed
American Crow	Corvus brachyrhynchos	15	35	Green	Not Listed	Not Listed	Not Listed
American Goldfinch	Spinus tristis	10	21	Green	Not Listed	Not Listed	Not Listed
American Redstart	Setophaga ruticilla	4	7	Green	Not Listed	Not Listed	Not Listed
American Robin	Turdus migratorius	36	138	Green	Not Listed	Not Listed	Not Listed
Black-and-white Warbler	Mniotilta varia	26	36	Green	Not Listed	Not Listed	Not Listed
Black-capped Chickadee	Poecile atricapillus	15	37	Green	Not Listed	Not Listed	Not Listed
Black-throated Green Warbler	Dendroica virens	18	33	Green	Not Listed	Not Listed	Not Listed
Blue Jay	Cyanocitta cristata	13	33	Green	Not Listed	Not Listed	Not Listed
Blue-headed Vireo	Vireo solitarius	15	17	Green	Not Listed	Not Listed	Not Listed
Canada Goose	Branta canadensis	1	2	Green	Not Listed	Not Listed	Not Listed
Canada Warbler	Wilsonia canadensis	1	2	Red	Threatened	Threatened	Not Listed
Cedar Waxwing	Bombycilla cedrorum	8	22	Green	Not Listed	Not Listed	Not Listed
Chestnut-sided Warbler	Dendroica pensylvanica	5	5	Green	Not Listed	Not Listed	Not Listed
Chipping Sparrow	Spizella passerina	1	1	Green	Not Listed	Not Listed	Not Listed
Common Grackle	Quiscalus quiscula	3	4	Green	Not Listed	Not Listed	Not Listed
Common Loon	Gavia immer	2	3	Red	Not at Risk	Not Listed	Not Listed
Common Merganser	Mergus merganser	1	1	Green	Not Listed	Not Listed	Not Listed
Common Raven	Corvus corax	5	10	Green	Not Listed	Not Listed	Not Listed
Common Snipe	Gallinaga gallinaga	2	2	Yellow	Not Listed	Not Listed	Not Listed
Common Yellowthroat	Geothlypis trichas	30	83	Green	Not Listed	Not Listed	Not Listed
Dark-eyed Junco	Junco hyemalis	20	43	Green	Not Listed	Not Listed	Not Listed
Evening Grosbeak	Coccothraustes vespertinus	1	1	Green	Not Listed	Not Listed	Not Listed
Golden-crowned Kinglet	Regulus satrapa	3	6	Yellow	Not Listed	Not Listed	Not Listed
Great Black-backed Gull	Larus marinus	1	1	Green	Not Listed	Not Listed	Not Listed
Great Blue Heron	Ardea herodias	1	1	Green	Not Listed	Not Listed	Not Listed
Hairy Woodpecker	Picoides villosus	1	1	Green	Not Listed	Not Listed	Not Listed
Hermit Thrush	Catharus guttatus	22	92	Green	Not Listed	Not Listed	Not Listed
Herring Gull	Larus argentatus	3	8	Green	Not Listed	Not Listed	Not Listed
Magnolia Warbler	Dendroica magnolia	30	106	Green	Not Listed	Not Listed	Not Listed
Mourning Dove	Zenaida macroura	9	11	Green	Not Listed	Not Listed	Not Listed
Nashville Warbler	Vermivora ruficapilla	7	7	Green	Not Listed	Not Listed	Not Listed
Northern Flicker	Colaptes auratus	9	10	Green	Not Listed	Not Listed	Not Listed
Northern Parula	Parula americana	11	15	Green	Not Listed	Not Listed	Not Listed
Palm Warbler	Dendroica palmarum	8	13	Green	Not Listed	Not Listed	Not Listed



			Total				
		Number of	Individuals	NSDNR	COSEWIC	SARA	NSESA
Common Name	Scientific Name	Observations	Observed	Status	Status	Status	Status
Pine Siskin	Spinus pinus	4	9	Yellow	Not Listed	Not Listed	Not Listed
Purple Finch	Carpodacus purpureus	2	4	Green	Not Listed	Not Listed	Not Listed
Red-breasted Nuthatch	Sitta canadensis	3	3	Green	Not Listed	Not Listed	Not Listed
Red-eyed Vireo	Vireo olivaceus	11	23	Green	Not Listed	Not Listed	Not Listed
Red-tailed Hawk	Buteo jamaicensis	1	1	Green	Not at Risk	Not Listed	Not Listed
Ring-billed Gull	Larus delawarensis	1	1	Green	Not Listed	Not Listed	Not Listed
Ruby-crowned Kinglet	Regulus calendula	3	3	Yellow	Not Listed	Not Listed	Not Listed
Ruby-throated Hummingbird	Archilochus colubris	1	2	Green	Not Listed	Not Listed	Not Listed
Song Sparrow	Melospiza melodia	13	21	Green	Not Listed	Not Listed	Not Listed
Swainson's Thrush	Catharus ustulatus	20	47	Green	Not Listed	Not Listed	Not Listed
Tree Swallow	Tachycineta bicolor	1	2	Yellow	Not Listed	Not Listed	Not Listed
White-throated Sparrow	Zonotrichia albicollis	29	108	Green	Not Listed	Not Listed	Not Listed
Willet	Tringa semipalmata	1	1	Red	Not Listed	Not Listed	Not Listed
Wilson's Warbler	Wilsonia pusilla	5	6	Yellow	Not Listed	Not Listed	Not Listed
Winter Wren	Troglodytes troglodytes	16	18	Green	Not Listed	Not Listed	Not Listed
Yellow Warbler	Dendroica petechia	2	4	Green	Not Listed	Not Listed	Not Listed
Yellow-bellied Flycatcher	Empidonax flaviventris	3	5	Yellow	Not Listed	Not Listed	Not Listed
Yellow-rumped Warbler	Dendroica coronata	19	26	Green	Not Listed	Not Listed	Not Listed





					Coi	nditions					<b>-</b>	
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
		484023E					-					
21-06-2012	GB1	4956092N	Young Mixed	None	15	Mostly Clear	None	5:47AM	American Crow	2	100+	
									American Goldfinch	2	0-50	1P
									American Robin	3	0-50	
									American Robin	4	50-100	
									American Robin	5	100+	
									Black-and-white Warbler	1	0-50	
									Black-capped Chickadee	1	100+	
									Black-throated Green Warbler	2	0-50	
									Black-throated Green Warbler	2	50-100	
									Blue Jay	2	0-50	
							•••		Blue-headed Vireo	1	50-100	•••
							•••		Chestnut-sided Warbler	1	0-50	
							•••		Common Yellowthroat	1	0-50	
							•••		Dark-eyed Junco	2	0-50	1P
									Hermit Thrush	3	100+	
									Magnolia Warbler	2	0-50	
									Magnolia Warbler	4	50-100	
									Magnolia Warbler	5	100+	
									Northern Parula	1	50-100	
							***		Red-eyed Vireo	2	100+	***
									Song Sparrow	1	0-50	
									Swainson's Thrush	1	0-50	Calling Young
							•••		Swainson's Thrush	1	50-100	
									Swainson's Thrush	2	100+	
							•••		Tree Swallow	2	0-50	
									White-throated Sparrow	1	100+	
									Winter Wren	1	0-50	
									Yellow-rumped Warbler	1	0-50	
			Sandpit/ Cleared						Tonon rumpou traibio		0.00	
		482785E	surrounded by young									
	GB2	4955769N	softwood	None	15	Mostly Clear	None	6:22AM	Alder Flycatcher	8	0-50	
							···	0.227 (17)	American Crow	2	0-50	
									American Crow	3	50-100	
						1			American Crow	3	100+	
									American Goldfinch	2	0-50	 1P
						•••	•••		American Robin	6	0-50	
•••									American Robin	5	50-100	
							•••		American Robin American Robin	8	100+	•••
				***					Black-and-white Warbler	2	0-50	
•••							•••		Black-and-white Warbler	1	50-100	
•••				•••					Black-capped Chickadee	1	0-50	Adult
									• •	4	0-50 0-50	
							•••		Black-capped Chickadee	1	0-50 0-50	Young
									Black-throated Green Warbler			
									Black-throated Green Warbler	4	50-100	
							•••		Black-throated Green Warbler	2	100+	•••
							•••		Blue Jay	2	0-50	•••
•••							•••		Blue Jay	2	50-100	
•••				•••			•••		Blue-headed Vireo	1	0-50	•••
									Blue-headed Vireo	2	50-100	
									Blue-headed Vireo	1	100+	
					•••		•••		Common Grackle	1	0-50	•••



		0			Coi	nditions				N	Distance to	
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Common Loon	2	100+	
							•••	•••	Common Merganser	1	FO W	•••
									Common Raven	3	FO NW	
									Common Raven	3	100+	
			•••						Common Yellowthroat	2	0-50	1P
								•••	Common Yellowthroat	3	0-50	
									Common Yellowthroat	1	50-100	
									Dark-eyed Junco	1	0-50	•••
									Dark-eyed Junco	4	50-100	
									Golden-crowned Kinglet	4	0-50	Family
									Great Blue Heron	1	F/O N	···
									Hermit Thrush	3	50-100	
									Hermit Thrush	4	100+	
									Mourning Dove	1	50-100	
							•••		Northern Flicker	1	100+	
									Northern Parula	2	0-50	
									Palm Warbler	1	0-50	
				<del></del>					Red-breasted Nuthatch	1	100+	
									Red-eyed Vireo	2	0-50	
•••								***	Red-eyed Vireo	2	50-100	
										1	FO NW	•••
									Ring-billed Gull	2	0-50	
•••									Song Sparrow	1	0-50	•••
									Swainson's Thrush	1		•••
									Swainson's Thrush	8 8	50-100	
									White-throated Sparrow		0-50 50-100	
				***					White-throated Sparrow	3 1		•••
									Wilson's Warbler Winter Wren	1	0-50 0-50	•••
•••										1	50-100	•••
•••							•••		Winter Wren			•••
								•••	Yellow-rumped Warbler	1	50-100	•••
		4005075	 				•••		Yellow-rumped Warbler	2	100+	
	GB3	482527E 4955606N	Young mixed/ disturbance	None	15	Mostly Clear	None	6:46AM	Alder Flycatcher	2	0-50	
									Alder Flycatcher	4	50-100	
									American Crow	2	0-50	
									American Crow	2	50-100	
									American Crow	1	100+	
									American Goldfinch	4	0-50	
									American Redstart	1	50-100	
									American Robin	1	0-50	Adult
									American Robin	3	0-50	
									American Robin	4	50-100	
									American Robin	1	100+	
									Black-and-white Warbler	1	50-100	
									Black-and-white Warbler	1	100+	
									Black-capped Chickadee	1	0-50	
							•••	•••	Black-throated Green Warbler	1	0-50	•••
									Black-throated Green Warbler	2	50-100	
									Common Yellowthroat	1	0-50	
									Common Yellowthroat	3	50-100	
									Dark-eyed Junco	2	0-50	
									Dark-eyed Junco	2	50-100	



		Coordinates	Coordinates	Conditions						Number	Distance to	
Date	Location	(UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Observed	Observer (m)	Notes
	+	_ `			•		" recipitation		Hermit Thrush	4	0-50	
									Hermit Thrush	4	50-100	
			•••						Herring Gull	1	F/O NE	
	1					1			Magnolia Warbler	4	0-50	
									Magnolia Warbler	3	50-100	
									Magnolia Warbler	5	100+	
							•••		Nashville Warbler	1	0-50	
									Nashville Warbler	1	50-100	
									Northern Flicker	1	0-50	Adult
							•••		Northern Flicker	1	0-50	Fledgling
									Northern Parula	1	0-50	···
									Northern Parula	2	50-100	
									Northern Parula	2	100+	
									Palm Warbler	1	0-50	
									Red-eyed Vireo	2	0-50	
									Red-eyed Vireo	2	50-100	
			•••						Red-eyed Vireo	1	100+	
	1								Ruby-crowned Kinglet	1	100+	
•••							•••		Song Sparrow	2	0-50	1P Carrying Food
			•••				•••		Song Sparrow	1	0-50	, ,
									Swainson's Thrush	1	0-50	
•••							•••		Swainson's Thrush	2	50-100	
•••							•••		White-throated Sparrow	2	0-50	 1P
•••									White-throated Sparrow	3	0-50	
•••									White-throated Sparrow	2	50-100	
•••									Wilson's Warbler	2	0-50	
									Winter Wren	2	50-100	
•••						•••	•••		Yellow-rumped Warbler	1	0-50	
•••							•••		Yellow-rumped Warbler	1	50-100	
•••		 483048E							Tellow-tumped Warblei	'	30-100	
	GB4	4955711N	Regenerating	None	15	Mostly Clear	None	7:28AM	Alder Flycatcher	3	0-50	
•••	+								Alder Flycatcher	4	50-100	
•••									American Crow	2	50-100	
									American Crow	2	100+	
						•••			American Goldfinch	2	0-50	 1P
									American Goldfinch	2	100+	
•••							•••		American Robin	1	0-50	
•••						•••	•••		American Robin	2	50-100	
•••						•••	•••		American Robin	2	100+	
									Black-and-white Warbler	1	0-50	
•••							•••		Black-and-white Warbler	2	50-100	
									Black-capped Chickadee	2	0-50	Adults
							•••		Black-capped Chickadee	2	0-50	Fledgling
•••							•••		Blue Jay	1	0-50	
									Blue Jay	2	50-100	
							•••		Blue-headed Vireo	1	0-50	
							•••		Blue-headed Vireo	1	50-100	
•••							•••		Canada Warbler	2	0-50	 1P
•••							•••		Canada Warbier  Cedar Waxwing	2	50-100	1P
•••						•••	•••		Cedar Waxwing  Common Yellowthroat	2	0-50	
									Common Yellowthroat	4	50-100	
							•••	•••	Common renowmoat	4	30-100	



		Coordinates			Coi	nditions				Number	Distance to	
Date	Location	(UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Observed	Observer (m)	Notes
	+	`		+	•				Great Black-backed Gull	Observed	FO NE	
•••								•••	Hermit Thrush	2	0-50	
•••							•••	•••	Hermit Thrush	5	50-100	
•••								•••	Herring Gull	2	FO NE	
***								•••	Magnolia Warbler	6	0-50	
•••							•••	•••	Magnolia Warbler	4	50-100	
•••								•••	Mourning Dove	1	50-100	
***								•••	Nashville Warbler	1	0-50	
•••								•••	Nashville Warbler	1	50-100	
•••								•••	Northern Flicker	1	100+	
							•••		Palm Warbler	2	0-50	 1P
•••							•••	•••				
		•••							Palm Warbler	1	50-100	
									Pine Siskin		FO NE	
•••		•••							Swainson's Thrush	1	0-50	
		•••							Swainson's Thrush	2	50-100	
		•••							White-throated Sparrow	6	0-50	3P
									White-throated Sparrow	3	0-50	
•••		•••			•••				White-throated Sparrow	5	50-100	
•••		•••			•••				Wilson's Warbler	1	50-100	
									Winter Wren	1	0-50	
									Winter Wren	1	50-100	
	00-	483341E	D ::	l					14/1: 11 1 10			
	GB5	4955801N	Regenerating	None	19	Mostly Clear	None	8:04AM	White-throated Sparrow	8	0-50	4P
•••							•••		Alder Flycatcher	4	0-50	
•••							•••	•••	Alder Flycatcher	4	50-100	
•••									American Goldfinch	2	50-100	
•••									American Redstart	1	0-50	
•••							•••	•••	American Redstart	3	50-100	
•••							•••		American Robin	1	0-50	Carrying Food
•••							•••		American Robin	3	0-50	
•••							•••		American Robin	4	50-100	
							•••		Black-and-white Warbler	3	0-50	
							•••		Black-and-white Warbler	4	50-100	
•••								***	Black-capped Chickadee	1	0-50	
									Black-throated Green Warbler	2	50-100	
									Blue-headed Vireo	1	0-50	
									Cedar Waxwing	2	0-50	1P
		•••							Common Yellowthroat	2	0-50	1P Carrying Food
		•••							Common Yellowthroat	4	0-50	2P
		•••					•••		Common Yellowthroat	5	0-50	
							•••		Hermit Thrush	2	0-50	1P
							•••		Hermit Thrush	4	50-100	
							•••	•••	Magnolia Warbler	2	0-50	1P Carrying Food
							•••		Magnolia Warbler	6	0-50	
							•••	•••	Magnolia Warbler	5	50-100	
							•••	•••	Mourning Dove	1	50-100	
									Northern Flicker	1	0-50	Adult
									Northern Flicker	2	0-50	Fledgling
									Palm Warbler	2	0-50	1P
									Palm Warbler	2	0-50	
									Palm Warbler	2	50-100	
									Ruby-crowned Kinglet	1	50-100	



		0	Coordinates		Coi	nditions					<b>D</b> :	
Date	Location	(UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Song Sparrow	1	50-100	
									Swainson's Thrush	1	0-50	
									Swainson's Thrush	4	50-100	
									White-throated Sparrow	4	50-100	2P
									Wilson's Warbler	1	0-50	
									Winter Wren	1	100+	
									Yellow-rumped Warbler	1	50-100	
									Yellow-rumped Warbler	1	100+	
		483809E					•••		Tollow Turnped Walbiel	·	1001	
	GB6	4953980N	Regenerating	None	19	Mostly Clear	None	9:10AM	Alder Flycatcher	1	0-50	
									Alder Flycatcher	2	50-100	
									American Crow	2	100+	
									Black-and-white Warbler	1	50-100	
									Black-capped Chickadee	1	50-100	Adult
	<del></del>								Black-capped Chickadee	2	50-100	Fledgling
									Blue Jay	1	100+	···
							•••		Common Loon	1	100+	
•••									Common Yellowthroat	2	0-50	 1P
									Common Yellowthroat	1	50-100	
							•••		Hairy Woodpecker	1	100+	
•••									Magnolia Warbler	1	0-50	
						•••			Mourning Dove	1	0-50	
						•••		•••	Ruby-throated Hummingbird	2	0-50	
***									White-throated Sparrow	2	0-50	
•••									White-throated Sparrow	4	50-100	
•••				***					Winter Wren	1	0-50	
***		 482358E							Williel Wiell	'	0-30	
	GB7	4955614N	Lake	None	19	Mostly Clear	None	9:42AM	American Goldfinch	2	0-50	1P
				+		· · ·			American Robin	1	0-50	
***									American Robin	1	50-100	
•••						•••	•••	•••	American Robin	3	100+	
							•••		Black-and-white Warbler	1	0-50	
									Black-and-white Warbler	1	50-100	
•••		•••				•••	•••	•••	Black-capped Chickadee	1	50-100	
								•••	Cedar Waxwing	2	0-50	
									Common Grackle	1	0-50	
		•••							Common Yellowthroat	2	0-50	 1P
							•••		Common Yellowthroat	3	0-50	
									Common Yellowthroat	3	50-100	•••
									Dark-eyed Junco	2	0-50	
							•••		Magnolia Warbler	5	0-50	
•••									Magnolia Warbler	4	50-100	
								•••	Northern Parula	2	0-50	
							•••		Northern Parula	1	50-100	
•••						•••	•••	•••	Purple Finch	2	50-100	
						•••	•••		Song Sparrow	2	0-50	 1P
						•••	•••	•••	Song Sparrow	1	0-50	
•••									White-throated Sparrow		0-50	 4P
***					•••		•••		White-throated Sparrow White-throated Sparrow	8 2	0-50 0-50	
***				***	•••		•••		White-throated Sparrow White-throated Sparrow	2	0-50 50-100	
•••												
		•••			•••				Yellow-rumped Warbler	1	0-50	
			•••	***	***				Yellow-rumped Warbler	1	100+	



		0			Con	ditions				N	D'atamata	
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
12-07-2012	GB3	482527E 4955606N	Young mixed/ disturbance	None	13	Clear	None	4:50AM	Alder Flycatcher	2	0-50	
									Alder Flycatcher	4	50-100	
•••		•••				•••			American Crow	2	100+	
•••		•••			•••	•••			American Redstart	2	50-100	
		•••				•••			American Robin	5	0-50	
	1	•••		1		•••			American Robin	4	50-100	
•••						•••			American Robin	11	100+	
						•••			Common Snipe	1	100+	
	1	•••							Common Yellowthroat	1	0-50	
•••		•••			•••				Common Yellowthroat	4	50-100	
•••		•••					•••	•••	Dark-eyed Junco	2	0-50	
•••				•••					Dark-eyed Junco	1	50-100	
•••				•••	•••	•••		•••	Dark-eyed Junco	2	100+	
									Hermit Thrush	6	50-100	
•••				***					Hermit Thrush	13	100+	
•••						•••			Magnolia Warbler	2	0-50	
		•••							Magnolia Warbler	4	50-100	
									Magnolia Warbler	2	100+	
•••				***		•••			Mourning Dove	1	100+	
									ŭ			
									Mourning Dove	1	50-100	
									Northern Parula		50-100	
•••		•••							Northern Parula	1	100+	
•••					•••				Song Sparrow	2 1	50-100	•••
									Song Sparrow	· ·	0-50	
•••		•••							Swainson's Thrush	5	100+	
•••		•••			•••				White-throated Sparrow	3	0-50	
		•••							White-throated Sparrow	6	50-100	
•••		•••							Winter Wren	1	50-100	
•••					•••				Winter Wren	1	100+	•••
		•••							Yellow-rumped Warbler	2	0-50	
•••				•••		•••			Yellow-rumped Warbler	2	100+	
	GB4	483048E 4955711N	Regenerating	None	13	Clear	None	5:18AM	Alder Flycatcher	2	0-50	
									Alder Flycatcher	2	50-100	
									American Crow	4	100+	
									American Robin	2	0-50	
									American Robin	4	50-100	
									American Robin	4	100+	
						•••			Black-and-white Warbler	1	0-50	
									Black-and-white Warbler	2	50-100	
									Black-and-white Warbler	1	100+	
									Black-capped Chickadee	2	100+	
									Black-throated Green Warbler	2	0-50	
									Black-throated Green Warbler	2	50-100	
									Blue Jay	4	100+	
									Canada Goose	2	100+	
									Cedar Waxwing	2	50-100	1P
								•••	Chestnut-sided Warbler	1	0-50	
								•••	Chestnut-sided Warbler	1	100+	
								•••	Common Grackle	2	50-100	•••
									Common Yellowthroat	4	0-50	



		Coordinates	stoo	Conditions						No see le see	Distance to	
Date	Location	(UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Observer (m)	Notes
							·		Common Yellowthroat	6	50-100	
						•••			Dark-eyed Junco	1	50-100	
									Dark-eyed Junco	1	100+	
		***							Hermit Thrush	2	0-50	1P
									Hermit Thrush	4	100+	
									Herring Gull	5	F/O East to West	
									Magnolia Warbler	4	0-50	Carrying food
									Magnolia Warbler	3	50-100	
									Mourning Dove	2	100+	
									Northern Flicker	1	100+	
		***							Red-breasted Nuthatch	1	100+	
									Swainson's Thrush	4	0-50	2P
									White-throated Sparrow	2	0-50	
		***							White-throated Sparrow	4	50-100	
		•••				***			Winter Wren	2	0-50	1P
									Yellow-bellied Flycatcher	2	0-50	
		•••							Yellow-rumped Warbler		0-50	
									Yellow-rumped Warbler	2	50-100	
						•••				_	00 .00	
	054	484023E	Young Mixed - Area	١		0.1					0.50	
•••	GB1	4956092N	Being Cleared	None	15	Clear	None	5:47AM	American Robin	2	0-50	
•••									American Robin	3	50-100	
									American Robin	6	100+	
									Black-and-white Warbler	1	0-50	
		•••							Black-and-white Warbler	1	100+	
		•••							Black-capped Chickadee	1	0-50	
				***					Black-throated Green Warbler	2	0-50	1P
		•••				•••			Black-throated Green Warbler	2	50-100	
		•••							Black-throated Green Warbler	1	100+	
•••		•••				•••			Blue Jay	2	0-50	
		•••							Blue-headed Vireo	1	0-50	
		•••							Blue-headed Vireo	2	100+	
•••		•••				•••			Cedar Waxwing	4	0-50	2P
		•••				•••			Common Raven	2	0-50	Immature
		•••				•••			Common Yellowthroat	1	0-50	
		•••							Dark-eyed Junco	8	0-50	Family
		***							Dark-eyed Junco	1	0-50	
		***							Dark-eyed Junco	2	50-100	
		•••				•••			Hermit Thrush	2	50-100	
		•••							Magnolia Warbler	3	0-50	
		•••				•••			Magnolia Warbler	3	50-100	
		•••							Magnolia Warbler	2	100+	
		•••				•••			Mourning Dove	2	100+	•••
									Northern Parula	1	50-100	
						•••			Northern Parula	1	100+	
						•••			Red-breasted Nuthatch	1	50-100	
									Red-eyed Vireo	2	50-100	
									Red-eyed Vireo	4	100+	
									Red-tailed Hawk	1	100+	
									Ruby-crowned Kinglet	1	0-50	
		•••							Song Sparrow	1	0-50	
									Swainson's Thrush	1	0-50	
									White-throated Sparrow	2	0-50	1P



		0			Con	ditions				No see le see	Distance to	
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Willet	1	100+	
									Winter Wren	1	0-50	
		•••							Yellow-rumped Warbler	1	0-50	
									Yellow-rumped Warbler	1	50-100	
								•••	Yellow-rumped Warbler	1	100+	•••
		483809E										
	GB6	4953980N	Regenerating	None	15	Clear	None	6:14AM	Alder Flycatcher	2	50-100	•••
									American Crow	1	100+	
									American Goldfinch	1	50-100	
									American Robin	2	0-50	
								•••	American Robin	3	50-100	•••
									American Robin	4	100+	
									Black-and-white Warbler	1	0-50	
								•••	Black-and-white Warbler	1	50-100	•••
								•••	Black-throated Green Warbler	2	0-50	•••
									Blue Jay	4	50-100	
									Blue-headed Vireo	1	0-50	
									Blue-headed Vireo	1	50-100	•••
									Cedar Waxwing	2	0-50	1P
									Common Yellowthroat	2	0-50	
									Common Yellowthroat	2	50-100	
									Dark-eyed Junco	1	0-50	
							1		Dark-eyed Junco	2	50-100	
									Hermit Thrush	4	50-100	
									Magnolia Warbler	2	50-100	
				•••			•••		Magnolia Warbler	1	100+	
•••									Nashville Warbler	1	50-100	
•••				•••					Northern Flicker	1	100+	
				•••			•••		Pine Siskin	2	0-50	1P
•••		•••							Song Sparrow	1	0-50	
				•••					Swainson's Thrush	1	50-100	
•••		•••							Swainson's Thrush	3	0-50	
				•••					White-throated Sparrow	2	0-50	
•••								•••	White-throated Sparrow	3	50-100	•••
				•••			***	•••	Winter Wren	1	0-50	•••
		 483341E							vvinter vvren	ı	0-50	•••
	ODE	4955801N	Dogonorotina	None	47	Class	NI	0:44 004	Alder Flycatcher	0	50.400	
	GB5		Regenerating	None	17	Clear	None	6:41AM	,	2	50-100	
		•••							American Goldfinch	2	0-50	•••
•••		•••							American Goldfinch	2	50-100	•••
		•••							American Robin	4	0-50	•••
		•••							American Robin	4	50-100	•••
•••								•••	American Robin	4	100+	
		•••							Black-and-white Warbler	2	0-50	1P
		•••							Black-and-white Warbler	1	50-100	•••
		•••							Black-and-white Warbler	1	100+	
•••		•••			•••			•••	Black-capped Chickadee	6	0-50	Family
***	•••								Black-throated Green Warbler	1	0-50	
									Black-throated Green Warbler	2	50-100	
									Blue Jay	4	50-100	•••
									Chestnut-sided Warbler	1	0-50	
		•••							Chestnut-sided Warbler	1	50-100	
									Common Raven	1	100+	Immature



		Coordinates			Cor	ditions				Number	Distance to	
Date	Location	(UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Observed	Observer (m)	Notes
									Common Raven	1	100+	
									Common Yellowthroat	2	0-50	Family
									Common Yellowthroat	4	0-50	
									Common Yellowthroat	5	50-100	
									Evening Grosbeak	1	100+	
									Hermit Thrush	4	0-50	
									Hermit Thrush	8	50-100	
									Magnolia Warbler	6	0-50	
									Magnolia Warbler	4	50-100	
									Nashville Warbler	1	50-100	
									Swainson's Thrush	4	0-50	
									Swainson's Thrush	4	50-100	
									White-throated Sparrow	2	0-50	
									White-throated Sparrow	5	50-100	
								1	Yellow-bellied Flycatcher	1	0-50	
		•••							Yellow-bellied Flycatcher	2	50-100	
		•••	Sandpit/ Cleared						Tellow belied Tiyeaterier		30 100	
		482785E	surrounded by young									
	GB2	4955769N	softwood	None	17	Clear	None	7:06AM	Alder Flycatcher	2	0-50	
							···		Alder Flycatcher	2	50-100	
•••								•••	American Crow	1	50-100	
		•••							American Robin	8	0-50	•••
									American Robin	10	100+	
•••									Black-and-white Warbler	10	0-50	
•••									Black-and-white Warbler	1	50-100	
•••									Black-capped Chickadee	4	50-100	
									Black-throated Green Warbler	2	50-100	
•••									Blue Jay	4	100+	
•••				•••					Blue Jay	1	0-50	
		•••							Blue-headed Vireo	1	0-50	
•••		•••							Blue-headed Vireo	1	50-100	
•••				•••					Cedar Waxwing	6	0-50	
									Chipping Sparrow	1	0-50	
•••		•••		•••					Common Snipe	1	100+	
		•••						***	Common Yellowthroat	5	0-50	
			•••						Common Yellowthroat  Dark-eyed Junco	2	50-100 0-50	 1P
•••									,		0-50 50-100	
•••									Dark-eyed Junco	3	50-100 100+	
•••									Dark-eyed Junco	2		
									Golden-crowned Kinglet		0-50	
		•••							Hermit Thrush	5	0-50	
		•••							Hermit Thrush	7	50-100	
		•••							Hermit Thrush	4	100+	
		•••							Magnolia Warbler	3	0-50	
		•••							Magnolia Warbler	4	50-100	
									Mourning Dove	1	50-100	
•••		•••							Nashville Warbler	1	0-50	
		•••							Palm Warbler	1	0-50	
		•••							Pine Siskin	2	0-50	1P
•••									Pine Siskin	4	0-50	
									Red-eyed Vireo	1	0-50	
									Red-eyed Vireo	3	50-100	



		Coordinates			Con	ditions				Number	Distance to	
Date	Location	(UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Observed	Observer (m)	Notes
									Red-eyed Vireo	2	100+	
									Song Sparrow	4	0-50	2P
									Swainson's Thrush	4	0-50	
									Swainson's Thrush	4	50-100	
									White-throated Sparrow	5	0-50	
									White-throated Sparrow	6	50-100	
									Wilson's Warbler	1	0-50	
									Winter Wren	1	0-50	
									Winter Wren	1	50-100	
									Yellow Warbler	2	0-50	
									Yellow Warbler	2	50-100	
									Yellow-rumped Warbler	1	0-50	
									Yellow-rumped Warbler	2	50-100	
									Yellow-rumped Warbler	3	100+	
		482358E							·			
	GB7	4955614N	Lake	None	17	Clear	None	7:28	American Crow	6	0-50	Fami
									Black-and-white Warbler	1	0-50	
									Black-and-white Warbler	2	0-50	
									Black-capped Chickadee	8	0-50	
									Black-throated Green Warbler	1	50-100	
									Blue Jay	4	0-50	
									Blue-headed Vireo	1	0-50	
									Blue-headed Vireo	1	50-100	
									Cedar Waxwing	2	0-50	1P
									Common Yellowthroat	2	0-50	
									Common Yellowthroat	4	50-100	
									Dark-eyed Junco	2	0-50	
									Hermit Thrush	1	0-50	
									Hermit Thrush	1	0-50	
									Magnolia Warbler	4	0-50	
									Magnolia Warbler	3	50-100	
									Northern Flicker	1	100+	***
•••									Purple Finch	2	0-50	1P
									Song Sparrow	2	0-50	
		•••	•••						White-throated Sparrow	3	0-50	
		•••	•••						White-throated Sparrow	2	50-100	
									Winter Wren	1	50-100	



Common Name	Number of Observations	Total Individuals Observed	Scientific Name	NSDNR Status	COSEWIC Status	SARA Status	NSESA Status
American Black Duck	9	91	Anas rubripes	Green	Not Listed	Not Listed	Not Listed
Belted Kingfisher	2	2	Megaceryle alcyon	Green	Not Listed	Not Listed	Not Listed
Black-bellied Plover	3	72	Pluvialis squatarola	Green	Not Listed	Not Listed	Not Listed
Greater Yellowlegs	4	65	Tringa melanoleuca	Yellow	Not Listed	Not Listed	Not Listed
Herring Gull	12	14	Larus argentatus	Green	Not Listed	Not Listed	Not Listed
Least Sandpiper	2	28	Calidris minutilla	Green	Not Listed	Not Listed	Not Listed
Lesser Yellowlegs	3	29	Tringa flavipes	Green	Not Listed	Not Listed	Not Listed
Osprey	3	3	Pandion haliaetus	Green	Not Listed	Not Listed	Not Listed
Semipalmated Plover	3	449	Charadrius semipalmatus	Green	Not Listed	Not Listed	Not Listed
Semipalmated Sandpiper	2	226	Calidris pusilla	Yellow	Not Listed	Not Listed	Not Listed
Short-billed Dowitcher	3	22	Limnodromus griseus	Green	Not Listed	Not Listed	Not Listed
Spotted Sandpiper	2	2	Actitis macularius	Yellow	Not Listed	Not Listed	Not Listed
Willet	3	5	Tringa semipalmata	Red	Not Listed	Not Listed	Not Listed



		Coordinates		Conditio	ns				Number		
Date	Location	(UTM NAD83)	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Observed	Flight Path	Notes
		482358E		•	Mostly	•					•
22-08-2012	GBShore1	4955614N	20 km/h S	24	Clear	None	2:50 PM		START	•	
							2:50 PM	American Black Duck	23		
							3:08 PM	Belted Kingfisher	1	SE to NW	
								_			
											Flying NW towards
							3:16 PM	Belted Kingfisher	1	NW to E	Chezzetcook Lake
							3:23 PM	Herring Gull	1	S to SE	
							3:35 PM	Herring Gull	1	S to SW	
							3:53 PM	Osprey	1	SE to S	
							4:39 PM	Spotted Sandpiper	1	W to E	
					Mostly					•	•
			20 km/h S	25	Clear	None	4:50 PM		END		
		0481324E			Mostly						
•••	GBShore2	4950889N	20 km/h S	25	Clear	None	5:00 PM	Black-bellied Plover	34	N/A	
								Greater Yellowlegs	2	N/A	
								Lesser Yellowlegs	1	N/A	
								Semipalmated Plover	6	N/A	
•••			•••					Semipalmated Sandpiper	6	N/A	
			•••					Short-billed Dowitcher	7	N/A	
								Spotted Sandpiper	1	N/A	
•••			•••					Willet	2	N/A	
		0482682E			Mostly			***************************************		1,471	
	GBShore3	4950603N	20 km/h S	25	Clear	None	5:15 PM	Black-bellied Plover	32	N/A	
								Greater Yellowlegs	15	N/A	
								Least Sandpiper	20	N/A	
	ĺ							Lesser Yellowlegs	2	N/A	
								Semipalmated Plover	430	N/A	
								Semipalmated Sandpiper	220	N/A	
								Short-billed Dowitcher	8	N/A	
								Willet	2	N/A	
		0482758E	•••	•••	Mainly			VVIIICE		14/73	
	GBShore4	4955771N	20 km/h E	25	Clear	None	5:50 PM		START	-	
			20 KIII/II L				6:11 PM	American Black Duck	2	SW to SE	Directly over site
								American Black Duck	15	SW to SE	
							6:16 PM	American Black Duck	1	SE to S	
						1	6:20 PM	American Black Duck	15	SE to SW	
			•••	•••			6:31 PM	American Black Duck	2	SE to SW	
		•••	•••	•••			6:34 PM	American Black Duck	4	SW to SE	
			•••	•••			6:52 PM	Greater Yellowlegs	1	SE to SW	
		•••	•••	•••	•••		0.52 PIVI	Herring Gull	1	Sto SE	•••
			•••		•••		7:09 PM		1	SE to SE	•••
•••							7:09 PIVI	Herring Gull	1	SE 10 S	



		Coordinates		Conditio	ons				Number			
Date	Location	(UTM NAD83)	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Observed	Flight Path	Notes	
							7:11 PM	Osprey	1	SW to S		
							7:48 PM	Semipalmated Plover	13	SE to S		
					Mainly							
			10 km/h E	22	Clear	None	7:50 PM		END			
		0482758E										
07-09-2012	GBShore4	4955771N	15 km/h NW	17	Overcast	None	9:53 AM		START			
							10:05 AM	American Black Duck	22	SW-NW	•••	
				•••		•••	10:10 AM	Common Loon	2	W-NW	•••	
							10:23 AM	Herring Gull	1	SW-NW	•••	
				•••		•••	10:35 AM	Herring Gull	1	SW-NW	•••	
							10:40 AM	Herring Gull	1	SW-W	•••	
•••				•••		•••	10:50 AM	Herring Gull	1	SW-SE	•••	
							11:33 AM	Osprey	1	NE-NW	•••	
					Mainly							
			10 km/h NW	19	Cloudy	None	11:53 AM		END			
		0479731E			Mainly							
	GBShore5	4953250N	15 km/h NW	19	Cloudy	None	12:17 PM		START	•		
•••				•••		•••		Black-bellied Plover	6	N/A	•••	
						•••		Greater Yellowlegs	47	N/A		
						•••		Least Sandpiper	8	N/A		
								Lesser Yellowlegs	26	N/A		
						•••		Short-billed Dowitcher	7	N/A		
						•••		Whimbrel	47	N/A		
				•••		•••		Willet	1	N/A	•••	
			Unknown	Unknown	Unknown	Unknown	1:17 PM		END			
·		480901E			Partly							
	GBShore6	4947894N	5 km/h E	21	Cloudy	None	1:50 PM		START			
							1:51 PM	American Black Duck	7	N/A	Feeding	
							2:05 PM	Belted Kingfisher	1	N/A	Feeding	
							2:05 PM	Herring Gull	1	NW-SW		
							2:30 PM	Herring Gull	2	SW-NW		
							3:05 PM	Herring Gull	2	NW-SW		
							3:34 PM	Herring Gull	1	NW-SW		
					Partly	_						
			10 km/h NW	23	Cloudy	None	3:50 PM		END			



		Number of	Total Individuals	NSDNR	COSEWIC	SARA	NSESA
Common Name	Scientific Name	Observations	Observed	Status	Status	Status	Status
American Black Duck	Anas rubripes	2	19	Green	Not Listed	Not Listed	Not Listed
American Crow	Corvus brachyrhynchos	27	98	Green	Not Listed	Not Listed	Not Listed
American Goldfinch	Spinus tristis	10	42	Green	Not Listed	Not Listed	Not Listed
American Redstart	Setophaga ruticilla	2	4	Green	Not Listed	Not Listed	Not Listed
American Robin	Turdus migratorius	9	37	Green	Not Listed	Not Listed	Not Listed
American Woodcock	Scolopax minor	1	1	Green	Not Listed	Not Listed	Not Listed
Black-and-white Warbler	Mniotilta varia	5	10	Green	Not Listed	Not Listed	Not Listed
Blackburnian Warbler	Dendroica fusca	1	1	Green	Not Listed	Not Listed	Not Listed
Black-capped Chickadee	Poecile atricapillus	17	104	Green	Not Listed	Not Listed	Not Listed
Blackpoll Warbler	Dendroica striata	6	18	Yellow	Not Listed	Not Listed	Not Listed
Black-throated Green Warbler	Dendroica virens	4	7	Green	Not Listed	Not Listed	Not Listed
Blue Jay	Cyanocitta cristata	16	39	Green	Not Listed	Not Listed	Not Listed
Blue-headed Vireo	Vireo solitarius	1	1	Green	Not Listed	Not Listed	Not Listed
Boreal Chickadee	Poecile hudsonicus	11	55	Yellow	Not Listed	Not Listed	Not Listed
Cedar Waxwing	Bombycilla cedrorum	4	10	Green	Not Listed	Not Listed	Not Listed
Chestnut-sided Warbler	Dendroica pensylvanica	1	1	Green	Not Listed	Not Listed	Not Listed
Common Grackle	Quiscalus quiscula	2	6	Green	Not Listed	Not Listed	Not Listed
Common Loon	Gavia immer	1	1	Red	Not at Risk	Not Listed	Not Listed
Common Merganser	Mergus merganser	1	3	Green	Not Listed	Not Listed	Not Listed
Common Nighthawk	Chordeiles minor	1	1	Red	Threatened	Threatened	Threatened
Common Raven	Corvus corax	6	8	Green	Not Listed	Not Listed	Not Listed
Common Yellowthroat	Geothlypis trichas	5	20	Green	Not Listed	Not Listed	Not Listed
Dark-eyed Junco	Junco hyemalis	14	112	Green	Not Listed	Not Listed	Not Listed
Downy Woodpecker	Picoides pubescens	4	5	Green	Not Listed	Not Listed	Not Listed
European Starling	Sturnus vulgaris	1	5	Exotic	Not Listed	Not Listed	Not Listed
Evening Grosbeak	Coccothraustes vespertinus	1	2	Green	Not Listed	Not Listed	Not Listed
Golden-crowned Kinglet	Regulus satrapa	11	58	Yellow	Not Listed	Not Listed	Not Listed
Gray Jay	Perisoreus canadensis	2	4	Yellow	Not Listed	Not Listed	Not Listed
Hairy Woodpecker	Picoides villosus	5	7	Green	Not Listed	Not Listed	Not Listed
Hermit Thrush	Catharus guttatus	3	6	Green	Not Listed	Not Listed	Not Listed
Magnolia Warbler	Dendroica magnolia	9	23	Green	Not Listed	Not Listed	Not Listed
Mourning Dove	Zenaida macroura	2	4	Green	Not Listed	Not Listed	Not Listed
Nashville Warbler	Vermivora ruficapilla	1	1	Green	Not Listed	Not Listed	Not Listed
Northern Flicker	Colaptes auratus	6	7	Green	Not Listed	Not Listed	Not Listed
Northern Parula	Parula americana	3	3	Green	Not Listed	Not Listed	Not Listed



		Number of	Total Individuals			SARA	NSESA
Common Name	Scientific Name	Observations	Observed	Status	Status	Status	Status
Northern Waterthrush	Seiurus noveboracensis	1	1	Green	Not Listed	Not Listed	Not Listed
Osprey	Pandion haliaetus	1	1	Green	Not Listed	Not Listed	Not Listed
Palm Warbler	Dendroica palmarum	11	30	Green	Not Listed	Not Listed	Not Listed
Pine Siskin	Spinus pinus	2	5	Yellow	Not Listed	Not Listed	Not Listed
Purple Finch	Carpodacus purpureus	8	22	Green	Not Listed	Not Listed	Not Listed
Red-breasted Nuthatch	Sitta canadensis	3	3	Green	Not Listed	Not Listed	Not Listed
Red-eyed Vireo	Vireo olivaceus	1	1	Green	Not Listed	Not Listed	Not Listed
Ruby-crowned Kinglet	Regulus calendula	7	17	Yellow	Not Listed	Not Listed	Not Listed
Ruffed Grouse	Bonasa umbellus	1	1	Green	Not Listed	Not Listed	Not Listed
Song Sparrow	Melospiza melodia	7	25	Green	Not Listed	Not Listed	Not Listed
Spruce Grouse	Falcipennis canadensis	1	2	Green	Not Listed	Not Listed	Not Listed
Swainson's Thrush	Catharus ustulatus	1	1	Green	Not Listed	Not Listed	Not Listed
White-throated Sparrow	Zonotrichia albicollis	9	39	Green	Not Listed	Not Listed	Not Listed
Winter Wren	Troglodytes troglodytes	1	1	Green	Not Listed	Not Listed	Not Listed
Yellow Warbler	Dendroica petechia	1	1	Green	Not Listed	Not Listed	Not Listed
Yellow-rumped Warbler	Dendroica coronata	19	141	Green	Not Listed	Not Listed	Not Listed



		Coordinates			Condi	tions				Number	Distance to	Height of Elyavor
Date	Location	(UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Observed	Observer (m)	Height of Flyover (m)
		482478E	Shrub hardwood by			,	,	-				,
17-09-2012	GB8	4955529N	gravel pit	Calm	10	Clear	None	7:19 AM	American Black Duck	13	F/O NW	
									American Crow	2	0-50	
									American Crow	2	100+	
									American Goldfinch	2	50-100	
									Black-and-white Warbler	1	0-50	
									Black-capped Chickadee	6	0-50	
									Black-throated Green Warbler	1	0-50	
									Blue Jay	2	0-50	
									Common Loon	1	100+	
									Common Nighthawk	1	F/O E-W	
									Common Raven	1	100+	
									Common Yellowthroat	4	0-50	
									Downy Woodpecker	1	0-50	
									Magnolia Warbler	3	0-50	
									Palm Warbler	2	0-50	
									Song Sparrow	2	0-50	
									Song Sparrow	2	50-100	
									Yellow-rumped Warbler	5	0-50	
		482769E							· ·			
	GB9	4955482N	Regenerating Growth	Calm	10	Clear	None	7:32 AM	American Crow	4	100+	
									American Goldfinch	2	50-100	
								•••	American Robin	1	0-50	
								•••	Black-and-white Warbler	2	0-50	
									Black-capped Chickadee	5	50-100	
									Blue Jav	2	50-100	
									Boreal Chickadee	4	50-100	
									Dark-eyed Junco	6	0-50	
•••									Golden-crowned Kinglet	4	0-50	
								•••	Magnolia Warbler	2	0-50	
									Northern Flicker	2	0-50	
									Northern Flicker	1	50-100	
									Purple Finch	2	50-100	
									Ruby-crowned Kinglet	1	0-50	
									White-throated Sparrow	4	0-50	
									Yellow-rumped Warbler	2	50-100	
		483024E							Tollow ramped trainer	_	00 100	
	GB10	4955448N	Softwood plantation	Calm	12	Clear	None	8:05 AM	American Crow	6	100+	
									American Goldfinch	8	100+	
									American Redstart	2	0-50	
									Black-and-white Warbler	2	0-50	
									Blackburnian Warbler	1	0-50	
									Black-capped Chickadee	6	50-100	
									Blackpoll Warbler	2	0-50	
									Black-throated Green Warbler	3	0-50	
									Blue Jay	4	0-50	
								1	Boreal Chickadee	5	0-50	
•••	•••								Cedar Waxwing	4	0-50	
•••									Dark-eyed Junco	5	0-50	
	•••								Golden-crowned Kinglet	6	0-50	
•••	•••								Golden-crowned Kinglet Golden-crowned Kinglet	6	0-50	
•••	•••								Magnolia Warbler	7	0-50	
•••											0-50	
	***							•••	Nashville Warbler	1	U <b>-</b> 50	



		Coordinates			Condi	tions				Number	Distance to	Height of Flyover
Date	Location	(UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Observed	Observer (m)	(m)
			+		· · · · · · · · · · · · · · · · · · ·		•		Northern Parula	Observed	0-50	` '
			•••							1		
					•••				Northern Waterthrush	· ·	0-50	
	•••		•••		•••	•••		•••	Purple Finch	1	50-100	
			•••			•••			Red-breasted Nuthatch		100+	
			•••		•••	•••			Spruce Grouse	2	0-50	
			•••		•••	•••			White-throated Sparrow	2	0-50	
									Yellow Warbler	1	0-50	
									Yellow-rumped Warbler	7	100+	
		483246E	Clearing adjacent to									
	GB11	4955578N	young mixed-woods	Calm	12	Clear	None	8:33 AM	American Crow	6	100+	
									Black-and-white Warbler	2	0-50	
									Black-capped Chickadee	6	100+	
									Blue Jay	4	50-100	
									Boreal Chickadee	2	0-50	
									Cedar Waxwing	2	0-50	
									Dark-eyed Junco	7	0-50	
									Golden-crowned Kinglet	6	0-50	
									Hermit Thrush	1	0-50	
									Magnolia Warbler	2	0-50	
									Mourning Dove	2	100+	
							1		Osprey	1	F/O SW-NW	•
									Red-eyed Vireo	1	0-50	
									Ruby-crowned Kinglet	2	0-50	
			•••		•••					1		
			•••						Winter Wren		100+	
			•••			•••			Yellow-rumped Warbler	2	0-50	
			•••		•••	•••			Yellow-rumped Warbler	2	50-100	
		483511E										
	GB12	4955702N	Clearing	10 km/h W	12	Clear	None	9:09 AM	American Crow	6	100+	
			•••		•••				American Crow	2	F/O NW-SE	
			•••		•••				Black-capped Chickadee	13	0-50	
									Blackpoll Warbler	2	0-50	
									Blue Jay	1	0-50	
									Boreal Chickadee	4	0-50	
					•••				Dark-eyed Junco	6	0-50	
									Magnolia Warbler	1	0-50	
									Northern Flicker	1	100+	
									Palm Warbler	4	0-50	
									Song Sparrow	2	0-50	
									Yellow-rumped Warbler	2	0-50	
									Yellow-rumped Warbler	2	100+	
		483766E	Clearing adjacent to							_	. 30.	
	GB13	4955805N	young mixed-woods	10 km/h W	13	Clear	None	9:37 AM	American Crow	2	0-50	
	1	4933003N	· · ·						American Crow	4	100+	1
							ł	***	American Goldfinch	10	0-50	
			•••		•••				American Robin	10	0-50	
					•••					2	0-50 0-50	
					•••				Black-capped Chickadee			
					•••				Blackpoll Warbler	4	0-50	
									Blue Jay	2	F/O NE-SW	
									Blue Jay	2	100+	
									Chestnut-sided Warbler	1	0-50	
					•••				Common Yellowthroat	2	0-50	
									Dark-eyed Junco	8	0-50	
									Magnolia Warbler	2	0-50	



		0			Condi	tions				No	Distance to	Halaki at Ebassas
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Height of Flyover (m)
					•				Palm Warbler	2	0-50	· · · /
									Purple Finch	2	100+	
			•••		•••	•••			Ruby-crowned Kinglet	1	0-50	•••
					•••				White-throated Sparrow	6	0-50	
	GB14	484043E 4955955N	Clearing	20 km/h W	15	Clear	None	10:32 AM	American Crow	2	50-100	
•••					•••				American Crow	2	100+	
									Black-capped Chickadee	8	0-50	
•••					•••				Blackpoll Warbler	4	0-50	
									Black-throated Green Warbler	1	0-50	
									Blue Jay	2	100+	
									Blue-headed Vireo	1	0-50	
									Boreal Chickadee	8	0-50	
									Palm Warbler	3	0-50	
									Song Sparrow	6	0-50	
						•••			Yellow-rumped Warbler	4	0-50	
		482693E							Tollow rullipou traible.	·	0.00	
	GB15	4955708N	Young mixed-woods	20 km/h W	15	Clear	None	10:55 AM	American Crow	4	100+	
									American Goldfinch	2	0-50	
					•••				Black-capped Chickadee	2	0-50	
					•••				Common Yellowthroat	6	0-50	•••
									Dark-eyed Junco	5	0-50	
					•••				Magnolia Warbler	2	0-50	
					•••				Northern Flicker	1	100+	
									Song Sparrow	1	0-50	
•••					•••				Yellow-rumped Warbler	2	0-50	
		482358E										
	GB7	4955614N	Lake	20 km/h W	15	Clear	None	11:12 AM	American Crow	2	50-100	
									American Crow	4	100+	
									American Crow	1	F/O NW-E	
									American Goldfinch	6	0-50	
									Black-capped Chickadee	8	0-50	
									Blackpoll Warbler	2	0-50	
									Blue Jay	2	0-50	
									Cedar Waxwing	2	0-50	
									Common Merganser	3	F/O SE-NW	
									Common Raven	1	F/O NW-E	
									Dark-eyed Junco	6	0-50	
									Purple Finch	2	50-100	
									Ruby-crowned Kinglet	1	50-100	
									Yellow-rumped Warbler	4	0-50	
		482478E	Shrub hardwood by						Tollow rumped warbiel	7	0.00	
04-10-2012	GB8	4955529N	gravel pit	20 km/h N	7	Clear	None	7:19 AM	American Crow	2	0-50	
			· · · · · · · · · · · · · · · · · · ·						American Crow	4	50-100	
				***					American Crow	8	100+	
				•••	•••				American Crow  American Goldfinch	6	50-100	
						•••			American Goldlinch American Redstart	2		
											0-50	
									American Robin	3	0-50	•••
					•••				Blue Jay	2	0-50	
•••								•••	Blue Jay	4	50-100	
									Boreal Chickadee	6	0-50	
					•••				Common Yellowthroat	3	0-50	
					•••				Dark-eyed Junco	8	0-50	



					Condi	tions						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Height of Flyover (m)
	1				-		-		Dark-eyed Junco	16	0-50	†
***				1					Downy Woodpecker	2	0-50	
***								•••	Golden-crowned Kinglet	8	0-50	
					•••				Hairy Woodpecker	1		
									, ,		50-100	•••
•••				•••		•••			Northern Flicker	1	100+	•••
									Palm Warbler	2	0-50	•••
•••					***				Purple Finch	2	0-50	•••
•••					•••				Purple Finch	2	50-100	•••
									Red-breasted Nuthatch	1	50-100	
					•••				Song Sparrow	6	0-50	
									Swainson's Thrush	1	0-50	
									White-throated Sparrow	5	0-50	
									Yellow-rumped Warbler	11	0-50	
		482769E										
	GB9	4955482N	Regenerating Growth	20 km/h N	7	Clear	None	7:41 AM	American Crow	4	50-100	
									American Crow	6	100+	
									American Goldfinch	2	50-100	
					•••				American Robin	3	0-50	
									Black-and-white Warbler	3	0-50	
					•••				Black-capped Chickadee	6	50-100	
	+			1					Black-throated Green Warbler	2	0-50	
***									Blue Jay	2	50-100	
									Boreal Chickadee	8	0-50	
					•••				Cedar Waxwing			
					•••					2	0-50	•••
•••						•••			Common Grackle	5	100+	•••
•••					•••	•••			Common Yellowthroat	5	0-50	
•••					•••				Dark-eyed Junco	14	0-50	•••
									Golden-crowned Kinglet	10	0-50	
									Hairy Woodpecker	2	0-50	•••
									Hermit Thrush	3	100+	
•••					•••				Mourning Dove	2	100+	
									Palm Warbler	7	0-50	
									Pine Siskin	1	0-50	
									Purple Finch	6	0-50	
									Red-breasted Nuthatch	1	100+	
									Ruffed Grouse	1	0-50	
									White-throated Sparrow	5	100+	
									Yellow-rumped Warbler	32	0-50	
		483024E								-		
	GB10	4955448N	Softwood plantation	20 km/h N	7	Clear	None	8:03 AM	American Crow	4	50-100	
					···				American Robin	2	0-50	
									American Woodcock	1	0-50	
	1			1					Blue Jay	4	0-50	
									Boreal Chickadee	4	50-100	
									Dark-eyed Junco	6	50-100	
								•••	· · · · · · · · · · · · · · · · · · ·			
•••					•••				Golden-crowned Kinglet	2	0-50	
					•••				Magnolia Warbler	2	0-50	
									Ruby-crowned Kinglet	1	0-50	
					•••				White-throated Sparrow	8	0-50	
					•••				Yellow-rumped Warbler	20	0-50	
		483246E	Clearing adjacent to									
	GB11	4955578N	young mixed-woods	20 km/h N	7	Clear	None	8:20 AM	American Goldfinch	2	0-50	
									American Robin	9	0-50	



		Coordinates			Condi	tions				Number	Diotones to	Hoight of Elverin
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Observed	Distance to Observer (m)	Height of Flyover (m)
					·		·		Black-capped Chickadee	2	100+	
									Boreal Chickadee	6	0-50	
									Common Grackle	1	F/O W-E	<100
									Common Raven	1	100+	
							•••	•••	Dark-eyed Junco	10	0-50	1
									Downy Woodpecker	10	0-50	
									European Starling	5	0-50	
					•••					3	0-50	•••
					•••				Palm Warbler			
		1005445			•••	•••			Yellow-rumped Warbler	8	0-50	
		483511E			_							
•••	GB12	4955702N	Clearing	20 km/h N	7	Clear	None	8:40 AM	American Robin	13	0-50	•••
									Black-capped Chickadee	4	0-50	
									Black-capped Chickadee	5	50-100	
					•••				Boreal Chickadee	4	0-50	
									Golden-crowned Kinglet	1	0-50	
									Golden-crowned Kinglet	5	50-100	
									Gray Jay	1	0-50	
									Gray Jay	3	50-100	
									Hairy Woodpecker	1	0-50	
									Hairy Woodpecker	1	50-100	
									Magnolia Warbler	2	0-50	
									Northern Parula	1	0-50	
									Palm Warbler	1	0-50	
									Pine Siskin	4	0-50	
								1	Ruby-crowned Kinglet	1	0-50	1
									White-throated Sparrow	4	0-50	
					•••				Yellow-rumped Warbler	19	0-50	
				20 June /h. N.	•••				reliow-rumped warbier	19	0-50	
		4007005	Classian adiacout to	20 km/h N								
	00.40	483766E	Clearing adjacent to	gusts 30	_	01		0.00.414		•	0.50	
	GB13	4955805N	young mixed-woods	km/h	7	Clear	None	9:00 AM	American Crow	2	0-50	
•••									American Crow	3	100+	•••
									American Robin	1	0-50	
					•••				Black-capped Chickadee	2	0-50	
					•••				Black-capped Chickadee	7	0-50	
					•••				Blue Jay	2	50-100	
					•••				Dark-eyed Junco	9	0-50	
									Hermit Thrush	2	0-50	
					•••				Palm Warbler	2	0-50	
									White-throated Sparrow	1	0-50	
									Yellow-rumped Warbler	2	0-50	
				20 km/h N					•			
	1	484043E		gusts 30								
	GB14	4955955N	Clearing	km/h	7	Clear	None	9:17 AM	American Crow	4	0-50	
		***	···					J.17 7(W)	American Robin	4	0-50	
	1								Blackpoll Warbler	4	0-50	
•••									Common Raven	2	100+	
							•••		Dark-eyed Junco	6	0-50	
									,			
•••			•••						Downy Woodpecker	1	50-100	
									Golden-crowned Kinglet	2	0-50	
									Hairy Woodpecker	2	0-50	
									Northern Parula	1	0-50	
					•••				Ruby-crowned Kinglet	10	0-50	
									Yellow-rumped Warbler	9	0-50	



		Coordinates			Condi	tions				Number	Distance to	Height of Flyover
Date	Location	(UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Observed	Observer (m)	(m)
		482693E		20 km/h N gusts 30								
	GB15	4955708N	Young mixed-woods	km/h	14	Clear	None	10:09 AM	American Crow	2	50-100	
									American Crow	6	100+	
									Black-capped Chickadee	14	0-50	
							•••		Blue Jay	2	0-50	
							•••		Blue Jay	2	50-100	
									Common Raven	2	100+	
									Evening Grosbeak	2	0-50	
									Northern Flicker	1	100+	
									Palm Warbler	2	0-50	
									Purple Finch	2	100+	
									Song Sparrow	6	0-50	
									White-throated Sparrow	4	0-50	
									Yellow-rumped Warbler	1	0-50	
		482358E		20 km/h N gusts 30								
	GB7	4955614N	Lake	km/h	14	Clear	None	10:35 AM	American Black Duck	6	0-50	
							•••		American Crow	4	100+	
							•••		American Goldfinch	2	0-50	
							•••		Black-capped Chickadee	8	0-50	•••
							•••		Boreal Chickadee	4	0-50	
							•••		Common Raven	1	100+	
							•••		Golden-crowned Kinglet	8	0-50	
							•••		Palm Warbler	2	0-50	
									Yellow-rumped Warbler	7	0-50	



O	Octobrillo Nome	Number of	Total Individuals	SARA	NSESA	NSDNR	COSEWI
Common Name	Scientific Name	Observations	Observed	Status	Status	Status	C Status
American Black Duck	Anas rubripes	2	7	Not Listed	Not Listed	Green	Not Listed
American Crow	Corvus brachyrhynchos	6	16	Not Listed	Not Listed	Green	Not Listed
Black-capped Chickadee	Poecile atricapillus	6	15	Not Listed	Not Listed	Green	Not Listed
Boreal Chickadee	Poecile hudsonicus	2	4	Not Listed	Not Listed	Yellow	Not Listed
Common Raven	Corvus corax	2	4	Not Listed	Not Listed	Green	Not Listed
Common Redpoll	Acanthis flammea	3	10	Not Listed	Not Listed	Green	Not Listed
Golden-crowned Kinglet	Regulus satrapa	4	9	Not Listed	Not Listed	Yellow	Not Listed
Gray Jay	Perisoreus canadensis	1	1	Not Listed	Not Listed	Yellow	Not Listed
Herring Gull	Larus argentatus	1	1	Not Listed	Not Listed	Green	Not Listed
Snow Bunting	Plectrophenax nivalis	1	1	Not Listed	Not Listed	Green	Not Listed



					Condit	ions					Distance to
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Observer (m)
			Variation Missaul								
		484023E	Young Mixed Area Being	10 km/h					American		
15-01-2013	GB1	4956092N	Cleared	NNW	-1	Cloudy	None	7:27 AM	Crow	2	0-50
13-01-2013	ODI	+330032IV	Olearea	ININV	-1	Cloudy	None	T.ZT AIVI	Common		0-30
									Raven	1	100+
		483809E		10 km/h					American		
	GB6	4953980N	Regenerating	NNW	-1	Cloudy	None	7:45 AM	Crow	3	100+
									American		
									Crow	2	50-100
									Black-capped	0	50.400
			•••			•••			Chickadee	2	50-100
									Boreal Chickadee	2	50-100
	•••	•••		•••		•••			Common		50-100
									Redpoll	4	50-100
		•••				•••			Golden-		30 100
									crowned		
									Kinglet	2	0-50
									Snow		
									Bunting	1	100+
		483341E		10 km/h					American		
	GB5	4955801N	Regenerating	NNW	1	Cloudy	None	8:16 AM	Crow	2	0-50
									Black-capped		
									Chickadee	1	0-50
									Diagly sampad		
									Black-capped Chickadee	2	0-50
						•••			Boreal		0-30
									Chickadee	2	0-50
	•••			•••		•••		•••	Common		0 00
									Redpoll	1	100+
									Golden-	· ·	
									crowned		
									Kinglet	4	0-50
									Gray Jay	1	0-50
		483048E		10 km/h					American		
	GB4	4955711N	Regenerating	NNW	1	Clear	None	8:36 AM	Crow	4	100+



					Condit	ions					Distance to
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Observer (m)
									Dia di canno d		
									Black-capped Chickadee	5	0-50
				•••					Common	Ŭ	0 00
									Raven	3	100+
									Golden-		
									crowned		
						•••			Kinglet	2	0-50
			Sandpit/ Cleared								
			surrounded								
		482785E	by young	10 km/h					Black-capped		
	GB2	4955769N	softwood	NNW	1	Clear	None	8:53 AM	Chickadee	2	0-50
									Common		
									Redpoll	5	0-50
									Golden-		
									crowned		0.50
•••						•••			Kinglet	1	0-50
		482527E	Young mixed/	10 km/h					American		
	GB3	4955606N	disturbance	NNW	1	Clear	None	9:07 AM	Black Duck	6	FO E to W
			0.010.00.100		·	0.00.		0.07 7	American		
									Black Duck	1	0-50
									American		
									Crow	3	100+
		4000505		401"					District to		
	CP7	482358E	Laka	10 km/h		Cuppi	None	0.22 0.4	Black-capped		0.50
•••	GB7	4955614N	Lake	NNW	2	Sunny	None	9:23 AM	Chickadee	3 1	0-50 FO E to W
•••	•••	•••		•••	•••			•••	Herring Gull	l	FOE IO W



	ī	I		I	1		I
							Total
			NSESA	COSEWIC	NSDNR	Number of	Individuals
Common Name	Scientific Name	SARA Status	Status	Status	Status	Observations	Observed
Alder Flycatcher	Empidonax alnorum	Not Listed	Not Listed	Not Listed	Green	16	21
American Black Duck	Anas rubripes	Not Listed	Not Listed	Not Listed	Green	3	3
American Crow	Corvus brachyrhynchos	Not Listed	Not Listed	Not Listed	Green	20	35
American Goldfinch	Spinus tristis	Not Listed	Not Listed	Not Listed	Green	9	8
American Redstart	Setophaga ruticilla	Not Listed	Not Listed	Not Listed	Green	14	18
American Robin	Turdus migratorius	Not Listed	Not Listed	Not Listed	Green	23	28
Black-and-White Warbler	Mniotilta varia	Not Listed	Not Listed	Not Listed	Green	42	43
Black-capped Chickadee	Poecile atricapillus	Not Listed	Not Listed	Not Listed	Green	16	18
Blackpoll Warbler	Dendroica striata	Not Listed	Not Listed	Not Listed	Yellow	3	3
Black-throated Green Warbler	Dendroica virens	Not Listed	Not Listed	Not Listed	Green	45	57
Blue Jay	Cyanocitta cristata	Not Listed	Not Listed	Not Listed	Green	13	17
Blue-headed Vireo	Vireo solitarius	Not Listed	Not Listed	Not Listed	Green	10	10
Boreal Chickadee	Poecile hudsonicus	Not Listed	Not Listed	Not Listed	Yellow	4	4
Brown Creeper	Certhia americana	Not Listed	Not Listed	Not Listed	Green	1	2
Canada Warbler	Wilsonia canadensis	Threatened	Not Listed	Threatened	Red	1	1
Cedar Waxwing	Bombycilla cedrorum	Not Listed	Not Listed	Not Listed	Green	1	2
Common Grackle	Quiscalus quiscula	Not Listed	Not Listed	Not Listed	Green	1	2
Common Loon	Gavia immer	Not Listed	Not Listed	Not at Risk	Red	5	7
Common Raven	Corvus corax	Not Listed	Not Listed	Not Listed	Green	2	4
Common Yellowthroat	Geothlypis trichas	Not Listed	Not Listed	Not Listed	Green	60	92
Dark-eyed Junco	Junco hyemalis	Not Listed	Not Listed	Not Listed	Green	33	36
Double-crested Cormorant	Phalacrocorax auritus	Not Listed	Not Listed	Not at Risk	Green	2	7
Fox Sparrow	Passerella iliaca	Not Listed	Not Listed	Not Listed	Green	3	3
Golden-crowned Kinglet	Regulus satrapa	Not Listed	Not Listed	Not Listed	Yellow	13	18
Great Blue Heron	Ardea herodias	Not Listed	Not Listed	Not Listed	Green	2	1
Hairy Woodpecker	Picoides villosus	Not Listed	Not Listed	Not Listed	Green	2	2
Hermit Thrush	Catharus guttatus	Not Listed	Not Listed	Not Listed	Green	28	38
Herring Gull	Larus argentatus	Not Listed	Not Listed	Not Listed	Green	2	3
Lincoln`s Sparrow	Melospiza lincolnii	Not Listed	Not Listed	Not Listed	Green	1	1
Magnolia Warbler	Dendroica magnolia	Not Listed	Not Listed	Not Listed	Green	72	109
Mourning Dove	Zenaida macroura	Not Listed	Not Listed	Not Listed	Green	7	9
Mourning Warbler	Oporornis philadelphia	Not Listed	Not Listed	Not Listed	Green	2	2
Nashville Warbler	Vermivora ruficapilla	Not Listed	Not Listed	Not Listed	Green	23	25
Northern Flicker	Colaptes auratus	Not Listed	Not Listed	Not Listed	Green	7	9



			NSESA	COSEWIC		Number of	Total Individuals
Common Name	Scientific Name	SARA Status	Status	Status	Status	Observations	Observed
Northern Goshawk	Accipiter gentilis	Not Listed	Not Listed	Not at Risk	Green	1	1
Northern Parula	Parula americana	Not Listed	Not Listed	Not Listed	Green	2	2
Osprey	Pandion haliaetus	Not Listed	Not Listed	Not Listed	Green	6	6
Palm Warbler	Dendroica palmarum	Not Listed	Not Listed	Not Listed	Green	42	62
Pileated Woodpecker	Dryocopus pileatus	Not Listed	Not Listed	Not Listed	Green	1	1
Purple Finch	Carpodacus purpureus	Not Listed	Not Listed	Not Listed	Green	12	12
Red-eyed Vireo	Vireo olivaceus	Not Listed	Not Listed	Not Listed	Green	8	8
Ring-necked Pheasant	Phasianus colchicus	Not Listed	Not Listed	Not Listed	Exotic	9	9
Ruby-throated Hummingbird	Archilochus colubris	Not Listed	Not Listed	Not Listed	Green	1	1
Ruffed Grouse	Bonasa umbellus	Not Listed	Not Listed	Not Listed	Green	4	4
Sharp-shinned Hawk	Accipiter striatus	Not Listed	Not Listed	Not at Risk	Green	1	1
Song Sparrow	Melospiza melodia	Not Listed	Not Listed	Not Listed	Green	17	17
Swainson's Thrush	Catharus ustulatus	Not Listed	Not Listed	Not Listed	Green	4	4
Swamp Sparrow	Melospiza georgiana	Not Listed	Not Listed	Not Listed	Green	3	3
Tennessee Warbler	Oreothlypis peregrina	Not Listed	Not Listed	Not Listed	Yellow	3	3
White-throated Sparrow	Zonotrichia albicollis	Not Listed	Not Listed	Not Listed	Green	61	111
Winter Wren	Troglodytes troglodytes	Not Listed	Not Listed	Not Listed	Green	11	11
Yellow-bellied Flycatcher	Empidonax flaviventris	Not Listed	Not Listed	Not Listed	Yellow	11	12
Yellow-rumped Warbler	Dendroica coronata	Not Listed	Not Listed	Not Listed	Green	29	38



					Conditio	ns						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
		,	Gravel pit with			_					, ,	
		482534E,	softwood									
May 7/2013	GB1G	4955604N	regeneration	Calm	8	Foggy	None	5:48 AM	American Crow	1	100 <sup>+</sup>	
									American Robin	2	50-100	
									Black-and-White Warbler	1	0-50	
									Black-capped Chickadee	1	50-100	
		•••							Boreal Chickadee	1	50-100	
									Common Loon	1	100 <sup>+</sup>	
									Dark-eyed Junco	1	0	
									Dark-eyed Junco	1	50-100	
									Golden-crowned Kinglet	2	50-100	
									Hermit Thrush	4	50-100	
									Nashville Warbler	1	0-50	
									Northern Flicker	1	100 <sup>+</sup>	
									Palm Warbler	3	0-50	
									Palm Warbler	3	100 <sup>+</sup>	
									Song Sparrow	1	50-100	
									Swamp Sparrow	1	50-100	
									White-throated Sparrow	5	50-100	
									Winter Wren	1	100 <sup>+</sup>	
									Yellow-rumped Warbler	2	0-50	
		482781E,	Gravel pit with softwood									
	GB2G	4955762N	regeneration	Calm	8	Foggy	Light Drizzle	6:06 AM	American Crow	3	FO SE	
									American Robin	3	50-100	
									Black-and-White Warbler	2	0-50	
									Black-capped Chickadee	2	0-50	
									Black-capped Chickadee	1	50-100	
									Boreal Chickadee	1	0-50	
									Hermit Thrush	2	0-50	
									Mourning Dove	1	100 <sup>+</sup>	
		•••							Osprey	1	FOS	
									Palm Warbler	3	0-50	
									Sharp-shinned Hawk	1	FO SE	
									White-throated Sparrow	2	0-50	
									Winter Wren	1	0-50	
									Yellow-rumped Warbler	2	0-50	
	GB3G	482945E, 4955959N	Regenerating Softwood	5 km/h SE	10	Overcast	None	6:29 AM	American Goldfinch	1	0-50	***
									American Robin	1	100 <sup>+</sup>	
									Black-and-White Warbler	1	50-100	
							1		Dark-eyed Junco	1	0-50	
									Hermit Thrush	2	50-100	
									Northern Flicker	2	0-50	
									Palm Warbler	5	0-50	
									Song Sparrow	1	50-100	
									White-throated Sparrow	4	50-100	
									Winter Wren	1	0-50	
	GB4G	483116E, 4956118N	Regenerating Softwood	Calm	10	Overcast	None	6:45 AM	American Crow	1	100 <sup>+</sup>	
•••	0040	- JOUI TOIN	Soitwood	Califi 				0.45 AIVI	American Crow  American Robin	1	100 <sup>+</sup>	



					Conditio	ns		]				
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Blue-headed Vireo	1	0-50	
					•••				Dark-eyed Junco	1	50-100	
									Hermit Thrush	1	100 <sup>+</sup>	
									Palm Warbler	2	50-100	
									Purple Finch	1	100 <sup>+</sup>	
									White-throated Sparrow	3	100 <sup>+</sup>	
									Winter Wren	1	50-100	
	GB5G	483367E, 4956010N	Mixed-age softwood/Young mixedwoods	Calm	10	Overcast	None	7:07 AM	American Crow	1	100 <sup>+</sup>	
					•••				American Robin	1	100 <sup>+</sup>	
									Black-and-White Warbler	1	0-50	
									Black-capped Chickadee	1	100 <sup>+</sup>	
									Blue Jay	1	100 <sup>+</sup>	
									Boreal Chickadee	1	0-50	
									Dark-eyed Junco	1	0-50	
									Palm Warbler	1	50-100	
									Palm Warbler	2	0-50	
									Purple Finch	1	50-100	
									White-throated Sparrow	1	50-100	
								•••	Yellow-rumped Warbler	1	0-50	
	GB6G 	483641E, 4956033N	Regenerating Softwood bordered by Coastal Softwood	Calm 	10 	Overcast	None 	7:25 AM	American Goldfinch Black-and-White Warbler	1	0-50 50-100	
									Black-capped Chickadee	1	100 <sup>+</sup>	
								•••	Black-throated Green Warbler	1	50-100	•••
							•••	•••	Blue Jay	1	0-50	•••
							•••	•••	Blue-headed Vireo	1	50-100	
								•••	Common Grackle	2	50-100	
				•••	•••		•••	•••	Palm Warbler	2	0-50	•••
				•••	•••	•••		•••	Ruffed Grouse	1	100 <sup>+</sup>	•••
								•••	White-throated Sparrow	1	0-50	•••
							•••	•••	White-throated Sparrow	1	100 <sup>+</sup>	
•••								•••	Winter Wren	1	50-100	
	GB7G	483828E, 4956070N	 Mid-aged Balsam fir	Calm	13	 Overcast	None	7:43 AM	Black-capped Chickadee	1	0-50	
									Black-throated Green Warbler	1	0-50	•••
									Blue-headed Vireo	1	0-50	
									White-throated Sparrow	2	100 <sup>+</sup>	
									Yellow-rumped Warbler	2	0-50	
	GB8G	484115E, 4956149N	Clearing for MET Tower	10 km/h SE	13	Foggy	None	8:06 AM	Yellow-rumped Warbler	1	0-50	
									American Robin	1	50-100	
									American Robin	3	0-50	
									Black-capped Chickadee	1	100 <sup>+</sup>	
									Black-throated Green Warbler	1	0-50	
									Blue-headed Vireo	1	50-100	
									Golden-crowned Kinglet	2	50-100	
									Palm Warbler	1	0-50	



					Condition	ons						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Purple Finch	1	0-50	
				•••					Song Sparrow	1	0-50	
									White-throated Sparrow	1	100 <sup>+</sup>	
									Yellow-rumped Warbler	1	100 <sup>+</sup>	
	GB9G	483975E, 4955875N	Scrubby mixedwood along existing road	10 km/h SE	13	Foggy	None	8:06 AM	Black-capped Chickadee	2	0-50	
									Blue Jay	1	100 <sup>+</sup>	
									Dark-eyed Junco	2	0-50	
									Palm Warbler	1	100 <sup>+</sup>	
									Palm Warbler	3	0-50	
									White-throated Sparrow	3	50-100	
									Yellow-rumped Warbler	4	0-50	
	GB10G	483685E, 4955806N	Scrubby mixedwood along existing road	5-10 km/h SE	13	Slight Fog/Overcast	None	8:30 AM	American Crow	2	50-100	
									Dark-eyed Junco	1	0-50	
									Song Sparrow	1	100 <sup>+</sup>	
									White-throated Sparrow	1	0-50	
									White-throated Sparrow	1	100 <sup>+</sup>	
									Yellow-rumped Warbler	1	100 <sup>+</sup>	
	GB11G	483197E, 4955799N	Regenerating Softwood	5-10 km/h SE	13	Slight Fog/Overcast	None	8:54 AM	American Goldfinch	1	50-100	
									American Robin	2	100 <sup>+</sup>	•••
									Dark-eyed Junco	1	100 <sup>+</sup>	
									Mourning Dove	2	0-50	
		•••		•••			•••		Northern Flicker	2	100 <sup>+</sup>	
		•••		•••			•••		Palm Warbler	2	50-100	
		•••		•••			•••		White-throated Sparrow	4	0-50	
		•••		•••			•••		White-throated Sparrow	2	50-100	
		•••		•••			•••		Yellow-rumped Warbler	1	0-50	
	 GB12G	483135E, 4955533N	Along existing road, adjacent to wetland and small pond	 5-10 km/h SE		Slight Fog/Overcast	 None	9:20 AM	Yellow-rumped Warbler  American Black Duck	1	50-100 0-50	
				3-10 KII/II 3L			···	3.20 AW	American Goldfinch	1	0-50	
									Northern Flicker	1	0-50	
									Palm Warbler	1	50-100	
									Swamp Sparrow	1	50-100	
									White-throated Sparrow	3	100 <sup>+</sup>	
•••								•••	White-throated Sparrow	2	50-100	
•••						1		•••	Yellow-rumped Warbler	2	0-50	
	 GB13G	482351E, 4955516N	Lake Gravel pit with	 5-10 km/h SE	13	Overcast	None	9:50 AM	Double-crested Cormorant	1	0-50	
M 00/0046	0040	482534E,	softwood	5 40 lm # 05	_	Heavy	Links Date (Direct	5.00 ***	A		0.50	
May 22/2013	GB1G	4955604N	regeneration	5-10 km/h SE	5	Overcast	Light Rain/Drizzle	5:26 AM	American Crow	1	0-50	
									American Crow	3	100 <sup>+</sup>	
									Black-and-White Warbler	1	0-50	



					Conditio	ns						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Black-capped Chickadee	1	100 <sup>+</sup>	
									Blue-headed Vireo	1	100 <sup>+</sup>	
									Common Loon	1	100 <sup>+</sup>	
									Common Yellowthroat	1	0-50	•••
									Common Yellowthroat	2	50-100	
									Common Yellowthroat	2	100 <sup>+</sup>	
									Dark-eyed Junco	2	0-50	
									Dark-eyed Junco	1	100 <sup>+</sup>	
									Hermit Thrush	1	100 <sup>+</sup>	
•••									Magnolia Warbler	1	100 <sup>+</sup>	
									Nashville Warbler	1	0-50	
	1								Nashville Warbler	2	50-100	
•••		•••	•••	•••	•••	•••			Nashville Warbler	1	100 <sup>+</sup>	•••
									Osprey	1	50-100	
		•••							Palm Warbler	1	0-50	•••
									Palm Warbler	1	50-100	
										1	100 <sup>+</sup>	
									Ring-necked Pheasant			
•••		•••			•••			•••	Song Sparrow	1	100 <sup>+</sup>	
•••		•••						•••	White-throated Sparrow	2	0-50	
									White-throated Sparrow	1	50-100	
									White-throated Sparrow	3	100 <sup>+</sup>	
									Yellow-rumped Warbler	1	50-100	
			Gravel pit with									
	0000	482781E,	softwood	5 40 1 // 05	_	Heavy		5 40 414			400 <sup>±</sup>	
•••	GB2G	4955762N	regeneration	5-10 km/h SE	5	Overcast	Light Rain/Drizzle	5:40 AM	American Robin	1	100 <sup>+</sup>	•••
									Black-and-White Warbler	1	0-50	
		•••							Black-capped Chickadee	1	100 <sup>+</sup>	•••
					•••				Black-throated Green Warbler	2	50-100	
•••									Common Yellowthroat	1	0-50	•••
									Common Yellowthroat	2	100 <sup>+</sup>	
		•••							Common Yellowthroat	2	50-100	•••
		•••							Dark-eyed Junco	1	0-50	
					•••				Double-crested Cormorant	6	FO NE	
									Fox Sparrow	1	100 <sup>+</sup>	•••
•••		•••	•••		•••				Golden-crowned Kinglet	4	50-100	•••
									Hairy Woodpecker	1	100 <sup>+</sup>	
									Hermit Thrush	1	0-50	
									Hermit Thrush	1	50-100	
									Magnolia Warbler	1	0-50	
		•••			•••				Magnolia Warbler	1	100 <sup>+</sup>	
		•••							Magnolia Warbler	2	50-100	
		•••							Nashville Warbler	1	0-50	
									Nashville Warbler	1	100 <sup>+</sup>	
									Nashville Warbler	1	50-100	
									Palm Warbler	2	50-100	
									Purple Finch	1	100 <sup>+</sup>	
									Ring-necked Pheasant	1	100 <sup>+</sup>	
									Song Sparrow	1	0-50	
									Swamp Sparrow	1	50-100	
	•••	•••										



					Conditio	ons						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
	CD2C	482945E,	Regenerating	E 40 km²/b 0E	F	Heavy	Light Daig/Dringle	C-00 AM	American Debin	4	400 <sup>+</sup>	
	GB3G	4955959N	Softwood	5-10 km/h SE	5	Overcast	Light Rain/Drizzle	6:00 AM	American Robin Black-and-White Warbler	1	100 <sup>+</sup> 0-50	
		•••										
							•••		Black-and-White Warbler	1	50-100 0-50	
							•••		Black-capped Chickadee Blackpoll Warbler		0-50	
							•••		Black-throated Green Warbler	1	50-100	
										2		
							•••		Common Loon	1	100 <sup>+</sup>	
•••					•••				Common Yellowthroat	2	0-50	•••
•••					•••				Common Yellowthroat	2	50-100	•••
									Common Yellowthroat	3	100 <sup>+</sup>	
									Hermit Thrush	1	50-100	
									Magnolia Warbler	2	0-50	
									Magnolia Warbler	3	50-100	
									Magnolia Warbler	1	100 <sup>+</sup>	
									Palm Warbler	1	50-100	
									Ring-necked Pheasant	1	100 <sup>+</sup>	
					•••				Ruby-throated Hummingbird	1	0-50	
					•••				Song Sparrow	1	50-100	
					•••				White-throated Sparrow	2	0-50	
									White-throated Sparrow	2	100 <sup>+</sup>	
	GB4G	483116E, 4956118N	Regenerating Softwood	5-10 km/h SE	5	Heavy Overcast	Light Rain/Drizzle	6:15 AM	American Crow	1	100 <sup>+</sup>	
									American Goldfinch	1	50-100	
									American Robin	1	100 <sup>+</sup>	
									Black-and-White Warbler	1	0-50	
		•••							Black-and-White Warbler	1	100 <sup>+</sup>	
									Black-throated Green Warbler	1	50-100	
									Common Yellowthroat	2	0-50	
									Common Yellowthroat	4	50-100	
		•••							Common Yellowthroat	2	100 <sup>+</sup>	
***									Hermit Thrush	1	0-50	
									Magnolia Warbler	1	0-50	•••
									Magnolia Warbler	2	50-100	
		•••							Palm Warbler	1	100 <sup>+</sup>	
									Ring-necked Pheasant	1	50-100	
									White-throated Sparrow	1	0-50	
									White-throated Sparrow	1	50-100	
									White-throated Sparrow	3	100 <sup>+</sup>	
		483197E,	Regenerating		•••				Willie throated opanow	,	100	
	GB11G	4955799N	Softwood	5-10 km/h SE	8	Overcast	Light Rain/Drizzle	6:34 AM	Black-and-White Warbler	1	50-100	
•••		•••			•••				Black-throated Green Warbler	1	0-50	•••
									Black-throated Green Warbler	1	100 <sup>+</sup>	•••
									Blue Jay	1	100 <sup>+</sup>	
									Common Yellowthroat	1	0-50	
									Common Yellowthroat	1	50-100	
									Common Yellowthroat	3	100 <sup>+</sup>	
									Golden-crowned Kinglet	1	50-100	
									Hermit Thrush	1	50-100	
									Magnolia Warbler	1	0-50	



					Conditio	ns						
Data	Location	Coordinates	Habitat	Wind Speed and	Tamananatura %	Clar	Dracinitation	T:	Common Nama	Number	Distance to	Notes
Date	Location	(UTM NAD83)	Habitat	Direction	Temperature °c	Sky	Precipitation	Time	Common Name Magnolia Warbler	Observed 2	Observer (m) 50-100	Notes
									·		100 <sup>+</sup>	
									Magnolia Warbler	1		
				•••	•••			•••	Mourning Dove	1	100 <sup>+</sup>	
				•••				•••	Palm Warbler	1	0-50	
									Palm Warbler	1	100 <sup>+</sup>	
		•••		•••	•••				White-throated Sparrow	1	50-100	
									White-throated Sparrow	3	100 <sup>+</sup>	
	GB5G	483367E, 4956010N	Mixed-age softwood/Young mixedwoods	5-10 km/h SE	8	Overcast	Light Rain/Drizzle	6:54 AM	American Crow	1	100⁺	
					_				Black-and-White Warbler	1	50-100	
									Black-capped Chickadee	1	50-100	
									Blackpoll Warbler	1	50-100	
									Black-throated Green Warbler	1	0-50	
									Black-throated Green Warbler	1	50-100	
									Common Yellowthroat	1	50-100	
								•••	Common Yellowthroat	1	100 <sup>+</sup> 0-50	
									Hermit Thrush		50-100	
								•••	Hermit Thrush	1		
								•••	Magnolia Warbler	2	50-100	
				•••	•••				Magnolia Warbler	2	100 <sup>+</sup>	
								•••	Palm Warbler	1	50-100	
								•••	Purple Finch	1	50-100	
				•••				•••	White-throated Sparrow	1	50-100	
				***					White-throated Sparrow	2	100 <sup>+</sup>	
									Winter Wren	1	100 <sup>+</sup>	
	GB6G	483641E, 4956033N	Regenerating Softwood bordered by Coastal Softwood	5-10 km/h SE	8	Overcast	Light Rain/Drizzle	7:13 AM	American Crow	1	100⁺	
									Black-capped Chickadee	2	0-50	
									Black-throated Green Warbler	1	0-50	
									Blue Jay	1	100 <sup>+</sup>	
							1		Blue-headed Vireo	1	50-100	
									Boreal Chickadee	1	50-100	•••
									Common Yellowthroat	1	50-100	
									Common Yellowthroat	2	100 <sup>+</sup>	
		•••							Magnolia Warbler	2	50-100	
					•••						100 <sup>+</sup>	
									Magnolia Warbler	2		
									Palm Warbler	1	0-50	
									Palm Warbler	1	50-100	
		483828E,							Ruffed Grouse	1	50-100	
	GB7G	4956070N	Mid-aged Balsam fir	5-10 km/h SE	8	Overcast	Light Rain/Drizzle	7:29 AM	American Crow	1	100 <sup>+</sup>	
				•••	•••	•••			Black-throated Green Warbler	1	100 <sup>+</sup>	
								•••	Blue-headed Vireo	1	50-100	
									Common Yellowthroat	1	100+	
				•••					Magnolia Warbler	2	100 <sup>+</sup>	
					•••				Purple Finch	1	50-100	
									White-throated Sparrow	1	100 <sup>+</sup>	



					Conditio	ns						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
	GB8G	484115E, 4956149N	Clearing for MET Tower	5-10 km/h SE	8	Overcast	Light Rain/Drizzle	7:49 AM	American Robin	1	50-100	
	1						Ť		Black-and-White Warbler	1	50-100	•••
			•••				•••		Black-throated Green Warbler	2	50-100	
•••						•••			1			
			•••		•••		•••		Black-throated Green Warbler	1	100+	•••
									Blue Jay	3	100 <sup>+</sup>	
									Blue-headed Vireo	1	100 <sup>+</sup>	
									Common Loon	1	FO W	
									Dark-eyed Junco	1	0-50	
									Golden-crowned Kinglet	1	50-100	
									Hermit Thrush	1	100 <sup>+</sup>	
									Magnolia Warbler	1	0-50	
									Magnolia Warbler	2	50-100	
									Magnolia Warbler	1	100 <sup>+</sup>	
									Nashville Warbler	1	100 <sup>+</sup>	
									White-throated Sparrow	2	100 <sup>+</sup>	
									Yellow-rumped Warbler	2	50-100	
		483975E,	Scrubby mixedwood						·			
	GB9G	4955875N	along existing road	5-10 km/h SE	8	Overcast	Light Rain/Drizzle	8:05 AM	American Black Duck	1	0-50	
									American Black Duck	1	50-100	
									American Crow	1	50-100	
									Black-and-White Warbler	1	0-50	
									Black-and-White Warbler	1	50-100	
									Black-throated Green Warbler	1	50-100	
									Blue Jay	1	100 <sup>+</sup>	
									Dark-eyed Junco	1	50-100	
									Magnolia Warbler	1	0-50	
					•••				Magnolia Warbler	2	50-100	
									Magnolia Warbler	1	100 <sup>+</sup>	
									Nashville Warbler	1	0-50	
									Ring-necked Pheasant	1	100 <sup>+</sup>	
									White-throated Sparrow	1	0-50	
					•••				White-throated Sparrow	2	50-100	
									White-throated Sparrow	1	100 <sup>+</sup>	
									Yellow-rumped Warbler	1	0-50	
					•••				Yellow-rumped Warbler	1	50-100	
	GB10G	483685E, 4955806N	Scrubby mixedwood along existing road	5-10 km/h SE	8	Overcast	Light Rain/Drizzle	8:20 AM	American Crow	1	100 <sup>+</sup>	
									American Goldfinch	1	100 <sup>+</sup>	
									American Robin	1	100 <sup>+</sup>	
									Black-and-White Warbler	1	50-100	
									Black-capped Chickadee	1	100 <sup>+</sup>	
									Blackpoll Warbler	1	0-50	
									Black-throated Green Warbler	1	0-50	
									Black-throated Green Warbler	2	50-100	
	1								Black-throated Green Warbler	1	100 <sup>+</sup>	
			•••		•••		•••		Common Yellowthroat	1	100 <sup>+</sup>	
		•••										
									Dark-eyed Junco	1	0-50	



					Condition	ons						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Dark-eyed Junco	1	50-100	
									Golden-crowned Kinglet	1	50-100	
									Magnolia Warbler	2	50-100	
									Magnolia Warbler	1	100 <sup>+</sup>	
									Palm Warbler	2	0-50	
									Ring-necked Pheasant	1	100 <sup>+</sup>	
									Song Sparrow	1	100 <sup>+</sup>	
									White-throated Sparrow	1	50-100	
									White-throated Sparrow	1	100 <sup>+</sup>	
									Yellow-rumped Warbler	1	50-100	
	GB12G	483135E, 4955533N	Along existing road, adjacent to wetland and small pond	5-10 km/h SE	8	Overcast	Light Rain/Drizzle	8:37 AM	American Goldfinch			
									American Robin			
									Black-throated Green Warbler	2	50-100	
									Black-throated Green Warbler	3	100 <sup>+</sup>	
									Blue Jay	3	50-100	
									Blue Jay	1	100 <sup>+</sup>	
									Common Yellowthroat	1	50-100	
									Common Yellowthroat	2	100 <sup>+</sup>	
									Golden-crowned Kinglet			•••
									Great Blue Heron			•••
									Magnolia Warbler	2	50-100	
									Magnolia Warbler	2	100 <sup>+</sup>	
									Nashville Warbler			
									Palm Warbler			
					•••				Yellow-rumped Warbler	1	50-100	
									Yellow-rumped Warbler	1	100 <sup>+</sup>	
	GB13G	482351E, 4955516N	Lake	5-10 km/h SE	8	Overcast	Light Rain/Drizzle	9:03 AM	American Crow	1	100 <sup>+</sup>	
									American Redstart	1	50-100	
									American Redstart	1	100 <sup>+</sup>	
									Black-and-White Warbler	1	100 <sup>+</sup>	
•••					•••				Black-throated Green Warbler	1	50-100	•••
									Common Yellowthroat	1	50-100	
					•••				Common Yellowthroat	1	100 <sup>+</sup>	
									Magnolia Warbler	2	50-100	
									Magnolia Warbler	1	100 <sup>+</sup>	
									Northern Parula	1	100 <sup>+</sup>	
									Osprey	1	0-50	
									Song Sparrow	1	0-50	
									Yellow-rumped Warbler	1	50-100	
					•••				Yellow-rumped Warbler	1	100 <sup>+</sup>	
May 30/2013	GB1G	482534E, 4955604N	Gravel pit with softwood regeneration	15-20 km/h WSW	10	Slight Fog/Overcast	Light Rain	5:27 AM	Alder Flycatcher	1	50-100	
			regeneration	15-20 KIII/II W SW		•	Light Rain		American Robin	1	50-100	
									Black-and-White Warbler	1	50-100	
									Common Yellowthroat	3	0-50	
									Common Yellowthroat	2	50-100	



					Condition	ons						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Dark-eyed Junco	1	50-100	
									Hermit Thrush	2	100 <sup>+</sup>	
									Magnolia Warbler	2	50-100	
									Osprey	1	FO S	
									Palm Warbler	1	0-50	
									Palm Warbler	1	50-100	
									White-throated Sparrow	1	50-100	
•••			 Gravel pit with		•••				White-throated Sparrow	3	100 <sup>+</sup>	
	GB2G	482781E, 4955762N	softwood regeneration	15-20 km/h WSW	10	Slight Fog/Overcast	Light Rain	5:37 AM	Alder Flycatcher	1	50-100	
									Alder Flycatcher	2	100 <sup>+</sup>	
									American Redstart	1	100 <sup>+</sup>	
									Black-and-White Warbler	1	50-100	
									Black-capped Chickadee	1	0-50	
									Black-throated Green Warbler	1	100 <sup>+</sup>	
									Blue Jay	1	100 <sup>+</sup>	
•••									Common Yellowthroat	2	50-100	
		•••							Dark-eyed Junco	1	0-50	
									Dark-eyed Junco	1	50-100	
		•••								1		
•••								•••	Fox Sparrow		100 <sup>+</sup>	
•••								•••	Magnolia Warbler	1	0-50	
•••					•••				Magnolia Warbler	2	50-100	•••
•••		•••			***				Magnolia Warbler	3	100+	•••
		•••			***				Nashville Warbler	1	50-100	•••
									Nashville Warbler	2	100 <sup>+</sup>	
									Purple Finch	1	100 <sup>+</sup>	
		•••			•••		•••		Tennessee Warbler	1	50-100	
		•••	•••	•••	•••				White-throated Sparrow	2	0-50	
									White-throated Sparrow	1	100 <sup>+</sup>	
									Winter Wren	1	100 <sup>+</sup>	
	GB3G	482945E, 4955959N	Regenerating Softwood	15-20 km/h WSW	10	Slight Fog/Overcast	Light Rain	5:51 AM	American Crow	1	50-100	
									American Redstart	1	50-100	
									American Robin	1	100 <sup>+</sup>	
									Black-and-White Warbler	1	0-50	
									Black-throated Green Warbler	1	100 <sup>+</sup>	
									Common Raven	3	FO S	
									Common Yellowthroat	1	0-50	
									Common Yellowthroat	1	50-100	
									Common Yellowthroat	4	100 <sup>+</sup>	
									Hermit Thrush	1	50-100	
									Hermit Thrush	2	100 <sup>+</sup>	
		•••			•••				Magnolia Warbler	2	50-100	
		•••			•••				Magnolia Warbler	2	100 <sup>+</sup>	
		•••							Palm Warbler	1	50-100	
•••		•••	•••	•••					White-throated Sparrow	1	0-50	
		•••	•••		•••		•••		White-throated Sparrow	3	100 <sup>+</sup>	
•••									Winter Wren	1	100 <sup>+</sup>	



					Condition	ons						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
		483116E,	Regenerating	200	Tomporatare o	Slight	· · · · · · · · · · · · · · · · · · ·			0.000.100	Cucci voi (iii)	
	GB4G	4956118N	Softwood	15-20 km/h WSW	10	Fog/Overcast	Light Rain	6:07 AM	Common Yellowthroat	1	0-50	
									Common Yellowthroat	2	50-100	
					•••				Magnolia Warbler	3	50-100	
				•••					Mourning Warbler	1	50-100	
					•••		•••		Ring-necked Pheasant	1	0-50	
									White-throated Sparrow	1	0-50	
									Winter Wren	1	50-100	
									Yellow-rumped Warbler	1	50-100	
	GB11G	483197E, 4955799N	Regenerating Softwood	15-20 km/h	10	Slight Fog/Overcast	Light Rain	6:24 AM	Black-capped Chickadee	1	100 <sup>+</sup>	
									Common Yellowthroat	1	50-100	
									Common Yellowthroat	2	100 <sup>+</sup>	
									Dark-eyed Junco	1	0-50	Nest with 4 eggs
									Magnolia Warbler	1	0-50	
									Magnolia Warbler	1	50-100	
									Palm Warbler	1	0-50	
									Palm Warbler	2	50-100	
									Purple Finch	1	100 <sup>+</sup>	
									White-throated Sparrow	2	100 <sup>+</sup>	
									Yellow-bellied Flycatcher	1	50-100	
	GB5G	483367E, 4956010N	Mixed-age softwood/Young mixedwoods	15-20 km/h WSW	10	Slight Fog/Overcast	Light Rain	6:50 AM	Black-throated Green Warbler	1	50-100	
		+33001014	···			···			Black-throated Green Warbler	2	50-100	
							•••		Magnolia Warbler	3	0-50	
									Magnolia Warbler	1	50-100	
									Palm Warbler	1	0-50	
									Palm Warbler	2	50-100	
									White-throated Sparrow	2	100 <sup>+</sup>	
	GB6G	483641E, 4956033N	Regenerating Softwood bordered by Coastal Softwood	15-20 km/h WSW	10	Slight Fog/Overcast	Light Rain	7:10 AM	American Goldfinch	1	50-100	
									Black-and-White Warbler	1	50-100	
									Black-throated Green Warbler	1	0-50	
									Common Yellowthroat	2	0-50	
									Common Yellowthroat	1	50-100	
									Mourning Dove	2	0-50	
									Northern Flicker	1	100 <sup>+</sup>	
									Swainson's Thrush	1	0-50	
		483828E,				Slight						
	GB7G	4956070N	Mid-aged Balsam fir	15-20 km/h WSW	10	Fog/Overcast	Light Rain	7:31 AM	Black-and-White Warbler	1	50-100	
									Black-throated Green Warbler	1	0-50	
									Black-throated Green Warbler	1	50-100	
									Blue-headed Vireo	1	0-50	
									Common Yellowthroat	1	50-100	
					•••		•••		Common Yellowthroat	1	100 <sup>+</sup>	
									Dark-eyed Junco	2	50-100	
									Golden-crowned Kinglet	1	0-50	
					•••				Magnolia Warbler	1	50-100	



					Conditio	ns						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Magnolia Warbler	1	100 <sup>+</sup>	
									Nashville Warbler	1	0-50	
									Nashville Warbler	1	50-100	
					•••				Nashville Warbler	1	100 <sup>+</sup>	
					•••				Purple Finch	1	50-100	
									White-throated Sparrow	1	100 <sup>+</sup>	
									Yellow-bellied Flycatcher	1	50-100	
	GB8G	484115E, 4956149N	Clearing for MET Tower	15-20 km/h WSW	10	Low Fog	None	7:51 AM	Black-and-White Warbler	1	0-50	
									Black-and-White Warbler	1	50-100	
									Black-throated Green Warbler	1	50-100	
									Black-throated Green Warbler	1	100 <sup>+</sup>	
							•••		Common Yellowthroat	1	50-100	
									Dark-eyed Junco	1	0-50	
•••					•••				Golden-crowned Kinglet	1	0-50	•••
					•••		•••		Golden-crowned Kinglet	1	50-100	•••
					•••		•••		Hermit Thrush	2	100 <sup>+</sup>	
											0-50	
•••									Magnolia Warbler	1		
									Magnolia Warbler	1	50-100	
•••		•••		•••	•••				Magnolia Warbler	1	100 <sup>+</sup>	•••
•••		•••		•••	•••				Song Sparrow	1	50-100	•••
					•••				White-throated Sparrow	1	50-100	•••
									White-throated Sparrow	2	100 <sup>+</sup>	
					•••				Winter Wren	1	100 <sup>+</sup>	
	ODOO	483975E,	Scrubby mixedwood	45.00 loss/le M/OM/	40	Law Face	Nana	0.00 414	Associates Dadatast	4	50.400	
	GB9G	4955875N	along existing road	15-20 km/h WSW	10	Low Fog	None	8:03 AM	American Redstart Black-and-White Warbler	1	50-100 50-100	
									Black-throated Green Warbler		50-100	
									Common Raven	1	0-50	
									Common Yellowthroat	1	50-100	
									Magnolia Warbler	2	50-100	
		•••							Palm Warbler	1	50-100	
•••									Red-eyed Vireo	1	100 <sup>+</sup>	
					•••				Song Sparrow	1	100 <sup>+</sup>	•••
									White-throated Sparrow	2	100 <sup>+</sup>	
									Yellow-rumped Warbler	1	0-50	
	CD40C	483685E,	Scrubby mixedwood	15 20 km/h WSW	40	Low Fox	None	0.40 AM	American Redatort	2	0.50	
	GB10G	4955806N	along existing road	15-20 km/h WSW	10	Low Fog	None	8:18 AM	American Redstart Black-and-White Warbler	2	0-50	
									Black-throated Green Warbler	1	50-100	
		•••							Black-throated Green Warbler Black-throated Green Warbler	3 1	0-50 50-100	
		•••										
•••									Common Yellowthroat	2	100 <sup>+</sup>	
•••					•••	•••			Dark-eyed Junco	1	50-100	•••
									Hermit Thrush	1	100 <sup>+</sup>	
									Magnolia Warbler	3	0-50	
									Magnolia Warbler	1	50-100	
					•••				Magnolia Warbler	2	100 <sup>+</sup>	
									Nashville Warbler	1	50-100	



					Conditio	ns						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Palm Warbler	1	50-100	
									Palm Warbler	1	100 <sup>+</sup>	
									Red-eyed Vireo	1	100 <sup>+</sup>	
									Swainson's Thrush	1	100 <sup>+</sup>	
									White-throated Sparrow	1	0-50	
		***		•••					White-throated Sparrow	2	50-100	
		•••			•••				Yellow-rumped Warbler	1	50-100	
	GB12G	483135E, 4955533N	Along existing road, adjacent to wetland and small pond	15-20 km/h WSW	10	Low Fog	None	8:35 AM	Alder Flycatcher	2	0-50	
									Alder Flycatcher	1	100 <sup>+</sup>	
			İ						American Robin	1	100 <sup>+</sup>	
		•••							Black-and-White Warbler	1	0-50	
									Black-and-White Warbler	1	50-100	
									Black-throated Green Warbler	2	0-50	
									Blue Jay	1	0-50	
									Canada Warbler	1	50-100	
									Magnolia Warbler	2	0-50	
									Magnolia Warbler	1	50-100	
									Nashville Warbler	2	0-50	
		***		•••	•••				Tennessee Warbler	1	0-50	
	GB13G	482351E, 4955516N	Lake	10-20 km/h	10	Low Fog	None	9:02 AM	Alder Flycatcher	1	100 <sup>+</sup>	
					•••				American Redstart	2	50-100	
									American Robin	1	0-50	
									American Robin	1	100 <sup>+</sup>	
		•••			•••				Black-and-White Warbler	1	100 <sup>+</sup>	
									Black-throated Green Warbler	1	100 <sup>+</sup>	
		•••		•••	•••				Common Yellowthroat	1	50-100	•••
									Common Yellowthroat	1	100 <sup>+</sup>	
					•••				Common Yellowthroat	1	100 <sup>+</sup>	
					•••				Hermit Thrush	1	100 <sup>+</sup>	
									Herring Gull	1	100 <sup>+</sup>	
									Magnolia Warbler	1	0-50	
					•••				Magnolia Warbler	1	50-100	
									Magnolia Warbler	2	100 <sup>+</sup>	
									Northern Flicker	1	0-50	
									Song Sparrow	1	50-100	
									Tennessee Warbler	1	0-50	
									White-throated Sparrow	1	100 <sup>+</sup>	
									Yellow-rumped Warbler	1	0-50	
June 16/2013	GB1G	482534E, 4955604N	Gravel pit with softwood regeneration	5-10km/h SW	15	Clear	None	4:50 AM	Alder Flycatcher	1	50-100	
									Alder Flycatcher	1	100+	
									American Crow	7	0-50	
									American Redstart	3	100+	
		•••			•••				American Robin	1	50-100	
		•••		•••	•••	•••			Common Loon	3	100+	
		***							Common Yellowthroat	1	50-100	



					Conditio	ns						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Common Yellowthroat	1	100+	
									Dark-eyed Junco	1	0-50	
									Dark-eyed Junco	1	50-100	
		•••							Dark-eyed Junco	1	100+	
		•••							Hermit Thrush	1	50-100	
									Hermit Thrush	2	100+	
									Lincoln's Sparrow	1	0-50	
									Magnolia Warbler	2	50-100	
									Nashville Warbler	1	100+	
	1								Osprey	1	100+	
									Palm Warbler	1	50-100	
									Red-eyed Vireo	1	100+	
									White-throated Sparrow	1	50-100	
					•••				·			
			0 1				•••		White-throated Sparrow	3	100+	
	GB2G	482781E, 4955762N	Gravel pit with softwood regeneration	5-10km/h SW	15	Clear	None	5:04 AM	Alder Flycatcher	2	50-100	
									Alder Flycatcher	1	100+	
									American Crow	2	100+	
									American Redstart	1	50-100	
									American Robin	1	100+	
									Black-and-White Warbler	1	50-100	
									Black-throated Green Warbler	1	100+	
		•••							Common Yellowthroat	1	50-100	
									Common Yellowthroat	2	100+	
									Dark-eyed Junco	1	50-100	
									Dark eyed Junco	1	100+	
								•••	Golden-crowned Kinglet	2	50-100	
									Magnolia Warbler	1	100+	
									Nashville Warbler	1	50-100	
									Palm Warbler	2	50-100	
									Song Sparrow	1	100+	
							•••		•	3	100+	
		482945E,	 Regenerating						White-throated Sparrow	3	100+	
	GB3G	4955959N	Softwood	5-10km/h SW	16	Clear	None	5:20 AM	Alder Flycatcher	2	100+	
									American Crow	2	100+	
									American Robin	1	100+	
		•••							Black-and-White Warbler	1	100+	
									Black-throated Green Warbler	2	100+	
	1								Blue Jay	1	100+	
									Common Yellowthroat	2	0-50	
							1		Common Yellowthroat	2	100+	
		•••							Dark-eyed Junco	1	100+	
									Hermit Thrush	1	100+	
									Herring Gull	2	100+	
									ŭ			
									Magnolia Warbler	2	50-100	
							•••		Magnolia Warbler	2	100+	
							•••		Palm Warbler	1	100+	
							•••		Red-eyed Vireo	1	100+	
		•••				•••	•••		Song Sparrow	1	100+	
					•••				White-throated Sparrow	2	100+	
									Yellow-rumped Warbler	1	0-50	



,					Conditio	ns						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
	0040	483116E,	Regenerating	5 40l /b 01M	40	01	None	5:40 414	Alder Eksestelen	1	400	
	GB4G	4956118N	Softwood	5-10km/h SW	16	Clear	None	5:40 AM	Alder Flycatcher		100+	
						•••	•••		American Crow	1	50-100	•••
									Black-and-White Warbler	1	50-100	
									Common Yellowthroat	1	50-100	
									Magnolia Warbler	1	0-50	
		•••			•••				Magnolia Warbler	1	50-100	•••
		•••			•••				Magnolia Warbler	1	100+	•••
				•••		•••	•••		Mourning Warbler	1	50-100	•••
									Northern Flicker	1	0-50	
									Ring-necked Pheasant	1	50-100	
									White-throated Sparrow	1	0-50	
				•••					White-throated Sparrow	1	100+	
				•••					Yellow-bellied Flycatcher	1	100+	
		483367E, 4956010N	Mixed-age softwood/Young	5-10km/h SW				5.50 AM	Alder Flycatcher	2	400.	
	GB5G		mixedwoods		16	Clear	None	5:58 AM	Common Yellowthroat	2	100+	
					•••	•••		•••		1	50-100	
								•••	Common Yellowthroat	1	100+	
					•••	•••			Dark-eyed Junco	1	50-100	
				•••		•••	•••		Hairy Woodpecker	1	0-50	•••
				•••		•••			Magnolia Warbler	1	100+	
									Mourning Dove	1	100+	
									Pileated Woodpecker	1	100+	
				•••		•••	•••		Winter Wren	1	100+	•••
									Yellow-bellied Flycatcher	1	50-100	
									Yellow-bellied Flycatcher	1	100+	
	GB6G	483641E, 4956033N	Regenerating Softwood bordered by Coastal Softwood	5-10km/h SW	16	Clear	None	6:23 AM	Alder Flycatcher	1	50-100	
									Black-and-White Warbler	1	50-100	
				•••					Common Yellowthroat	2	50-100	
				•••					Hermit Thrush	1	100+	
									Magnolia Warbler	1	100+	
									Magnolia Warbler	2	50-100	
									Nashville Warbler	1	0-50	
									Nashville Warbler	1	50-100	
									Palm Warbler	1	100+	
									Palm Warbler	1	50-100	***
									Purple Finch	1	100+	
									Ruffed Grouse	1	0-50	
									Yellow-bellied Flycatcher	1	0-50	
		483828E.		•••			•••		Tonom Domou i iyoddonoi	<del>'</del>	0 00	
	GB7G	4956070N	Mid-aged Balsam fir	5-10km/h SW	16	Clear	None	6:39 AM	Black-and-White Warbler Black-throated Green Warbler	1	0-50 0-50	
									Black-throated Green Warbler	1	100+	
•••									Blue-headed Vireo	1	0-50	
	1				•••		•••	•••	Diue-neaueu viie0	'	0-30	
									Coldon growned Kinglet	1	EO 100	
									Golden-crowned Kinglet	1	50-100	
									Golden-crowned Kinglet  Hermit Thrush  Magnolia Warbler	1 2 1	50-100 100+ 50-100	



					Conditio	ns						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
									Nashville Warbler	1	0-50	
									White-throated Sparrow	1	100+	
									Yellow-bellied Flycatcher	2	100+	
		484115E,	Clearing for MET									
	GB8G	4956149N	Tower	10-15km/h SW	17	Clear	None	6:59 AM	American Robin	1	100+	
									Black-and-White Warbler	1	50-100	
		•••		•••					Black-capped Chickadee	1	50-100	
									Black-throated Green Warbler	1	0-50	
									Common Yellowthroat	1	100+	
									Great Blue Heron	1	100+	
									Hermit Thrush	1	100+	
									Magnolia Warbler	1	50-100	
									Red-eyed Vireo	1	50-100	
									Swainson's Thrush	1	100+	
									Yellow-bellied Flycatcher	1	100+	•••
									Yellow-rumped Warbler	1	50-100	•••
									Yellow-rumped Warbler	1	100+	
	27.0	483975E,	Scrubby mixedwood	40.451 // 004		O.						
•••	GB9G	4955875N	along existing road	10-15km/h SW	17	Clear	None	7:16 AM	American Redstart	1	0-50	•••
•••		•••					•••		Black-and-White Warbler	1	50-100	•••
		•••							Blue Jay	1	100+	
•••							•••		Common Yellowthroat	1	50-100	•••
		•••							Dark-eyed Junco	1	50-100	
•••		•••		•••			•••		Hermit Thrush	1	100+	•••
•••		•••		•••			•••		Magnolia Warbler	1	0-50	•••
							•••		Magnolia Warbler	1	50-100	
		•••					•••		Northern Goshawk	1	0-50	
•••							•••		Palm Warbler	1	50-100	
									Purple Finch	1	100+	•••
•••							•••		Red-eyed Vireo	1	100+	
•••									Song Sparrow	1	100+	
		•••	***						Yellow-bellied Flycatcher	1	50-100	
	GB10G	483685E, 4955806N	Scrubby mixedwood along existing road	10-15km/h SW	17	Clear	None	7:30 AM	Alder Flycatcher	1	100+	
				•••					American Crow	3	100+	
				•••					American Redstart	1	0-50	
				•••					American Redstart	1	50-100	
									Black-throated Green Warbler	1	50-100	
				•••	•••				Common Yellowthroat	1	50-100	
				•••					Common Yellowthroat	1	100+	
				•••					Hermit Thrush	1	100+	
				•••					Magnolia Warbler	1	50-100	
				•••					Magnolia Warbler	1	100+	
				•••					Red-eyed Vireo	1	50-100	
				•••					Ring-necked Pheasant	1	100+	
				•••					Ruffed Grouse	1	50-100	
				•••					Song Sparrow	1	100+	
									Swainson's Thrush	1	100+	
									White-throated Sparrow	1	100+	



					Conditio	ns						
Date	Location	Coordinates (UTM NAD83)	Habitat	Wind Speed and Direction	Temperature °c	Sky	Precipitation	Time	Common Name	Number Observed	Distance to Observer (m)	Notes
		483197E,	Regenerating									
	GB11G	4955799N	Softwood	10-15km/h SW	18	Clear	None	7:57 AM	Black-throated Green Warbler	1	100+	
									Dark-eyed Junco	1	50-100	
									Magnolia Warbler	1	0-50	
						•••	•••		Mourning Dove	1	100+	
						•••	•••		Palm Warbler	1	50-100	
						•••	•••		Yellow-bellied Flycatcher	1	50-100	
									Yellow-bellied Flycatcher	1	100+	
	GB12G	483135E, 4955533N	Along existing road, adjacent to wetland and small pond	10-15km/h SW	18	Clear	None	8:14 AM	American Goldfinch	1	100+	
									American Redstart	1	50-100	
									Black-and-White Warbler	1	0-50	
									Black-and-White Warbler	1	50-100	
									Black-and-White Warbler	1	100+	
									Black-throated Green Warbler	1	50-100	
									Black-throated Green Warbler	1	100+	
									Common Yellowthroat	1	50-100	
									Dark-eyed Junco	1	50-100	
									Fox Sparrow	1	100+	
									Golden-crowned Kinglet	1	100+	
									Hermit Thrush	1	100+	
									Nashville Warbler	1	0-50	
									Purple Finch	1	100+	
									Red-eyed Vireo	1	50-100	
									White-throated Sparrow	1	100+	
									Yellow-rumped Warbler	1	100+	
	GB13G	482351E, 4955516N	Lake	10-15km/h SW	18	Clear	None	8:41 AM	Alder Flycatcher	1	100+	
									American Redstart	1	50-100	
									Black-and-White Warbler	1	50-100	
									Black-throated Green Warbler	1	50-100	
									Brown Creeper	2	0-50	
									Cedar Waxwing	2	0-50	
									Dark-eyed Junco	1	50-100	
									Magnolia Warbler	1	100+	
						•••			Northern Parula	1	0-50	
						•••			Osprey	1	100+	
		•••					•••		Song Sparrow	1	100+	
		•••		•••	•••	•••	•••		Yellow-rumped Warbler	1	50-100	•••

