

## LOYALIST SOLAR LP Natural Heritage Assessment Evaluation of Significance Report

Loyalist Solar Project

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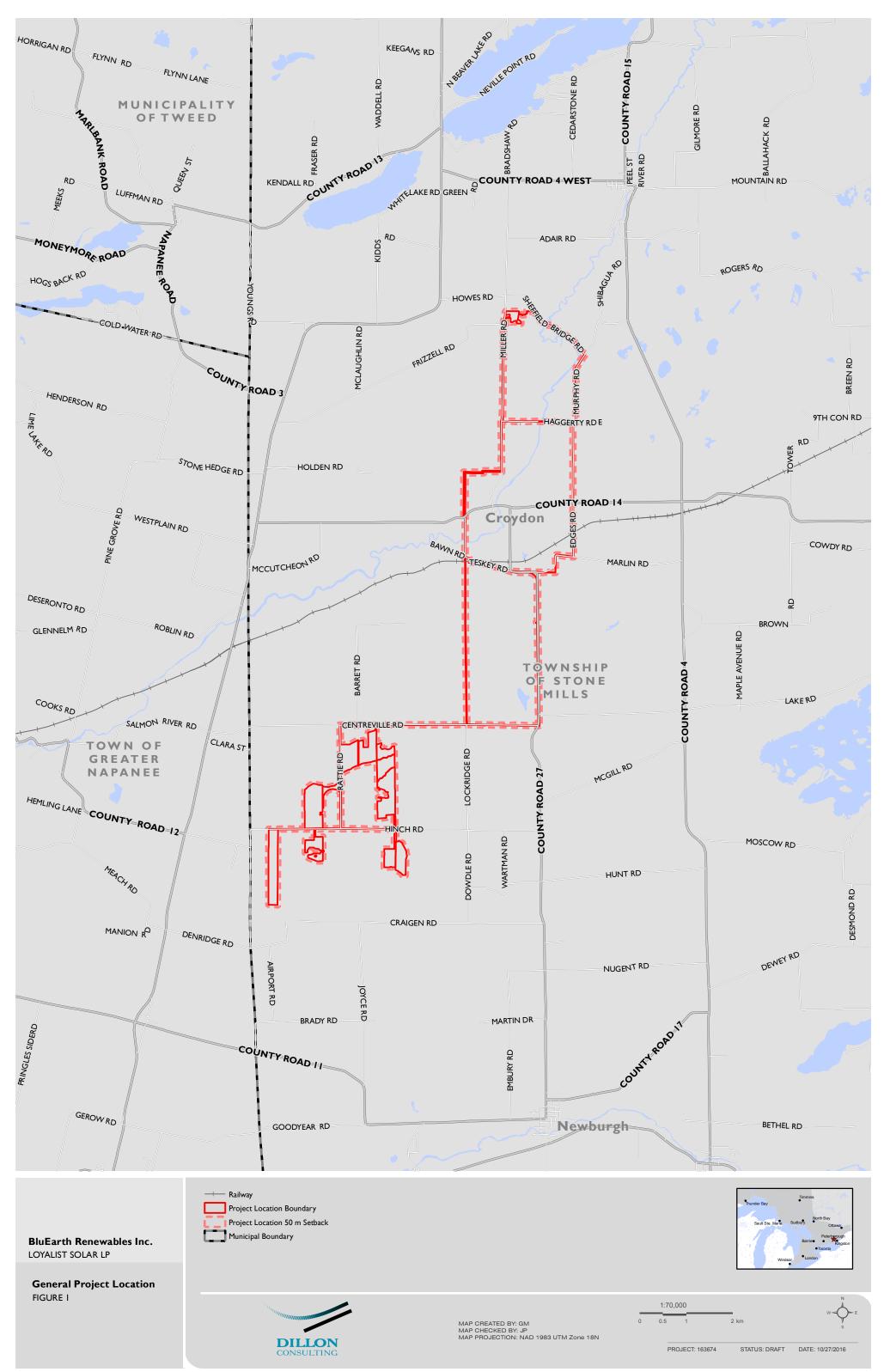
# 1.0 Introduction

Loyalist Solar LP, a limited partnership between the Mohawks of the Bay of Quinte and BluEarth Renewables Inc. (together the "Proponent"), proposes to develop a non-rooftop solar facility with a maximum nameplate capacity of 54 megawatts alternating current (" $MW_{AC}$ "), in the Township of Stone Mills, County of Lennox & Addington, Ontario (**Figure 1**). The renewable energy facility will be known as the Loyalist Solar Project (the "Project").

The Proponent submitted a proposal to the Independent Electricity System Operator ("IESO") under the Large Renewable Procurement ("LRP") process and was subsequently awarded a LRP contract by the IESO to generate electricity. The Project will now be subject to a number of approvals including, among others *Ontario Regulation 359/09* – Renewable Energy Approval ("REA") under Part V.0.1 of the Ontario *Environmental Protection Act*.

This draft *Natural Heritage Assessment* ("NHA") *Evaluation of Significance Report* was completed in partial fulfillment of the regulatory requirements for the REA process. Following review and comment by the Ministry of Natural Resources and Forestry ("MNRF"), this report will be finalized for submission to the Ministry of the Environment and Climate Change ("MOECC") as part of the REA application. Additional details regarding the potential impacts and the mitigation measures required to protect significant natural features will be provided, as required, in the *NHA Environmental Impact Study ("EIS") Report*. These reports are submitted to the MNRF for review and comment, as required under *Ontario Regulation 359/09*. For a description of the requirements of a Natural Heritage Assessment, please refer to the MNRF's Natural Heritage Assessment Guide for Renewable Energy Projects (MNRF 2012). Discussion of Species at Risk, fish habitat, and other information needs, as outlined in the MNRF's Approval and Permitting Requirements Document ("APRD") for Renewable Energy (MNRF 2009), are discussed in separate reports, under direction from the MNRF and in compliance with the REA and other applicable legislation.





FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\EOS\Figure 1 General Project Location.mxd

Re	quired Documentation	Location in Report
1.	For each natural feature shown on the map mentioned in paragraph 3 of subsection 26 (3) of O. Reg. 359/09, a determination of whether the natural feature is provincially significant, significant, not significant or not provincially significant.	Section 8, Evaluation of Significance <b>Table 8</b> : Natural Features Evaluation of Significance Summary <b>Figures 3, 4 and 5</b>
2.	A summary of the evaluation criteria or determinations mentioned in paragraph 1.	Section 6, Methodology
3.	The name and qualifications of any person who criteria or procedures mentioned in paragraph 2.	Section 7, Names and Qualifications of Site Investigation
4.	The dates of the beginning and completion of the evaluation	Table 3: Site Evaluation Dates           Duration and Weather           Conditions

### Table 1: Checklist for Requirements under Ontario Regulation 359/09- NHA Evaluation of Significance



# 2.0 The Proponent

The Proponent is coordinating and managing the approvals process for the Project. The contact is:

Full Name of Company:	Loyalist Solar LP, c/o BluEarth Renewables Inc.
Prime Contact:	Tom Bird, Director, Regulatory
Address:	34 Harvard Road, Guelph, ON, N1G 4V8
Telephone:	1-844-214-2578
Email:	projects@bluearth.ca

Dillon Consulting Limited ("Dillon") has been retained by the Proponent to prepare the REA application for the Project. The contact at Dillon is:

Full Name of Company:	Dillon Consulting Limited
Prime Contact:	Megan Bellamy, Project Manager
Address:	235 Yorkland Boulevard, Suite 800, Toronto, ON, M2J 4Y8
Telephone:	(416) 229-4646 ext. 2423
Fax:	(416) 229-4692
Email:	MBellamy@dillon.ca



# 3.0 **Project Location**

This Class 3 Solar Facility is to be located within the Township of Stone Mills, in the County of Lennox & Addington, approximately nine kilometres north of Napanee, Ontario. The Project Location, situated on multiple privately owned parcels, consists of approximately 200 hectares (494 acres) and is contained within an area generally bounded on the north by Howe's Road, Craigen Road to the south, County Road 27 and Murphy Road to the east and County Road 41 to the west (described as the "Project Location" on **Figure 1**). Project Location has an approximate centroid at the following geographic coordinates:

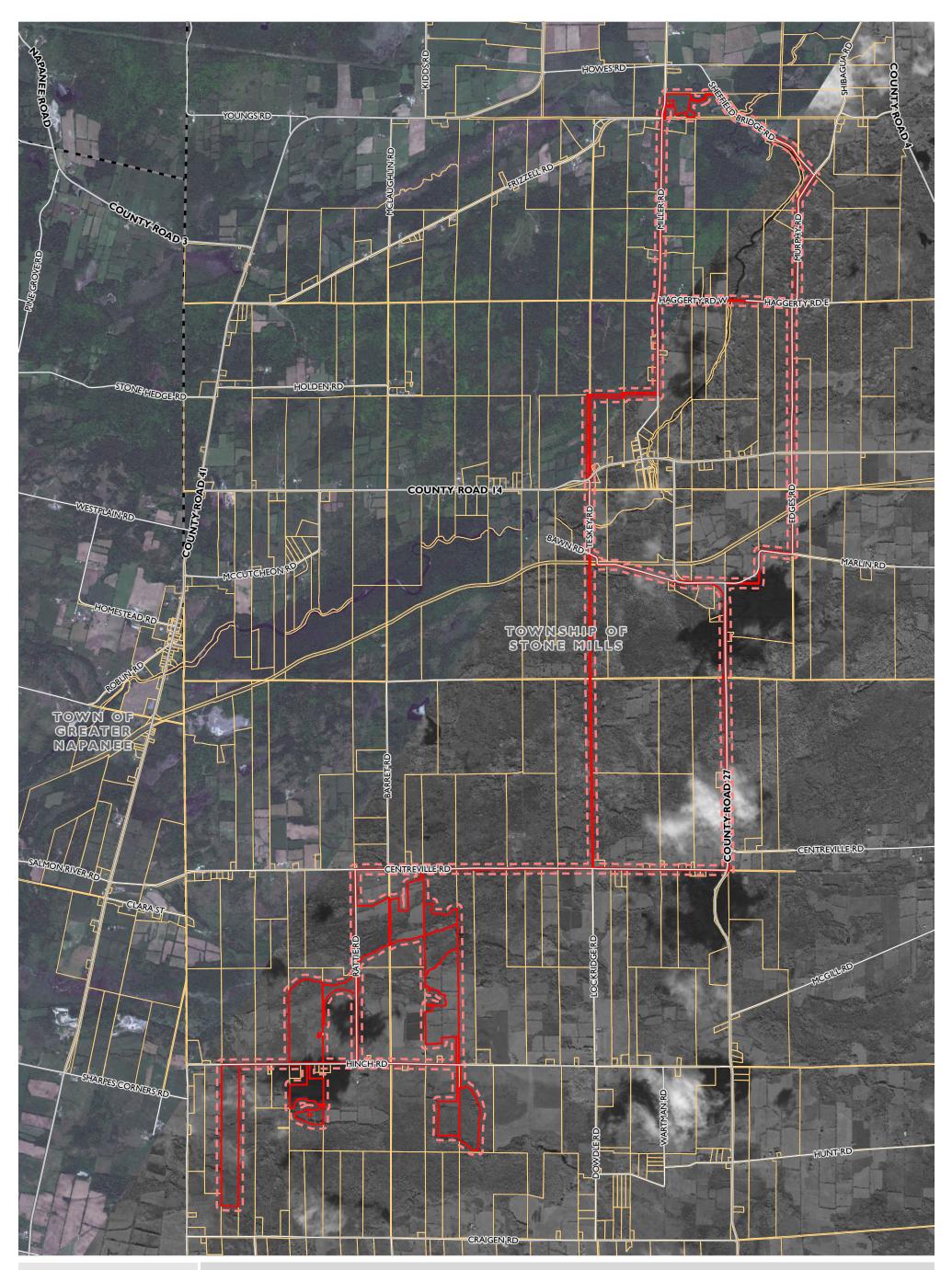
- Latitude: 44°22'3.382" N
- Longitude: 76°58'19.534" W

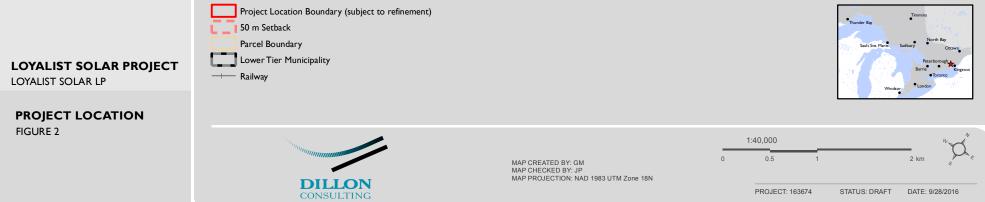
**Figure 2** overviews the maximum extent of the Project Location for the purposes of this *NHA Evaluation* of Significance Report. The term "Project Location" is defined in Ontario Regulation 359/09 to be "a part of land and all or part of any building or structure in, on or over which a person is engaging in or proposes to engage in the Project and any air space in which a person is engaging in or proposes to engage in the Project". The facility components within the Project Location will be provided in the *NHA EIS Report*. Project components, including photovoltaic ("PV") panels and electrical facilities such as inverters, transformers, a substation and Project access roads will be located on private land. Some Project components, such as electrical collector lines and the connection line route to the substation will be located in open and unopened road right-of-ways or on private lands.

For the purposes of this *NHA Evaluation of Significance Report*, the Project Location boundary has been further refined for reasons that include, but are not limited to, the avoidance of sensitive natural features determined to be present (e.g. wetlands, candidate wildlife habitat, etc.) and/or to accommodate other regulatory requirements and/or stakeholders input. For a comparison of how the Project Location was refined from the *NHA Site Investigation Report*, **Figure 2** from each report can be compared. This Project Location boundary may be subject to further refinement during detailed design following issue of the REA. The boundary represented on **Figure 2** and on the significant natural features mapping in this report represents the maximum extent of the boundary anticipated. Natural features that are no longer applicable to the Project Location have not been carried forward to the *NHA Evaluation of Significance Report*.

**Figure 2** also includes the 50 m setback area from the Project Location. This area was required to be assessed for natural features as per *Ontario Regulation 359/09*. Setback development prohibitions for solar facilities are outlined in Part V, Sections 37 and 38 of *Ontario Regulation 359/09* (amended May 1, 2016).







# **4.0** Summary of Site Investigation

Using the results of the records review, completed in accordance with Section 26 of *Ontario Regulation* 359/09, a site investigation was conducted. A detailed list of the determinations made from site investigation work is outlined in **Table 2**. Natural features occurring within the Project Location or the surrounding 50 m, as defined in *Ontario Regulation*, are outlined in the *NHA Site Investigation Report*. Figures 5, 6 and 7A-7W of the *NHA Site Investigation Report* illustrate the results of the site investigation and identify the natural heritage features within 50 m of the Project Location in accordance with the requirements of Section 26 of *Ontario Regulation 359/09*.



Natural Feature ID		Feature in Relation to Project Location		Evaluation of Significance Status		
		Within Prescribed Setback	Requires Evaluation	Previously Evaluated	Evaluatior not Required*	
Wetlands						
Mud Creek Provincially Significant Wetland (11, 104)	Yes	Yes	No	Yes	N/A	
Hinch Swamp Provincially Significant Wetland (4)	No	Yes	No	Yes	N/A	
Pennell's Creek Provincially Significant Wetland (88)	No	Yes	No	Yes	N/A	
Biddy's Lake Provincially Significant Wetland (94)	No	Yes	No	Yes	N/A	
Unevaluated Southern Wetlands (18, 33, 41, 49, 92, 111, 113, 114, 121, 124)	Yes	Yes	Yes	No	N/A	
Unevaluated Southern Wetlands (26, 30, 31, 34, 40, 43, 44, 45, 54, 61, 62, 71, 72, 73, 75, 77, 78, 83, 85, 86, 96, 99, 100, 101, 102, 103, 105, 106, 108, 109, 110, 112, 115, 116, 117, 118, 119, 120, 122, 123, 125, 126, 127)	No	Yes	Yes**	No	N/A	
Woodlands			L			
Unevaluated Southern Woodlands (AD, AE, AP, B, BD, BH, BI, BM, BS, BT, CI, CY, DB, DD, DF, DI, DL, DZ, EA, F, I, L)	Yes	Yes	Yes	No	N/A	
Unevaluated Southern Woodlands (AB, AQ, BC, BF, BG, BP, BU, CA, CN, CW, CX, CZ, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DX, DY)	No	Yes	Yes	No	N/A	
Candidate Significant Wildlife Habitat			'		'	
Seasonal Concentration Areas						
Waterfowl Stopover and Staging Areas (Terrestrial; WSST1-10)	Yes	Yes	Yes	No	N/A	
Waterfowl Stopover and Staging Areas (Aquatic; WSSA1-4)	Yes	Yes	Yes	No	N/A	
Turtle Wintering Areas (TWA1)	Yes	Yes	Yes	No	N/A	
Reptile Hibernaculum (RH1-16)	Yes	Yes	Yes	No	N/A	
Colonially Nesting Bird Breeding Habitat (Trees/ Shrubs; CNT1-28)	Yes	Yes	Yes	No	N/A	
Colonially Nesting Bird Breeding Habitat (Ground; CNG1-16)	Yes	Yes	Yes	No	N/A	

### Table 2: Summary of Natural Heritage Assessment Site Investigation Results

### LOYALIST SOLAR LP



	Feature in Relation to Project Location		Evaluation of Significance Status		
Natural Feature ID	Within	Within Prescribed Setback	Requires Evaluation	Previously Evaluated	Evaluation not Required*
Rare Vegetation Communities					
Alvar (ALV1-21)	Yes	Yes	Yes	No	N/A
Old Growth Forest (OG1-7)	Yes	Yes	Yes	No	N/A
Specialized Habitat for Wildlife					
Waterfowl Nesting Area (WNA1-7)	Yes	Yes	Yes	No	N/A
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat (BEOS1-9)	Yes	Yes	Yes	No	N/A
Turtle Nesting Areas (TNA1)	Yes	Yes	Yes	No	N/A
Amphibian Breeding Habitat (Wetland; ABHWE1)	No	Yes	Yes	No	N/A
Amphibian Breeding Habitat (Woodland; ABHWO1-11)	Yes	Yes	Yes	No	N/A
Woodland Area-Sensitive Bird Breeding Habitat (ASBB1-5)	Yes	Yes	Yes	No	N/A
Woodland Raptor Nesting Habitat (WRN1-3)	Yes	Yes	Yes	No	N/A
Habitat of Species of Conservation Concern					
Marsh Breeding Bird Habitat ( General; MBBH1-5)	Yes	Yes	Yes	No	N/A
Marsh Breeding Bird Habitat (Green Heron; GRHE1-12)	Yes	Yes	Yes	No	N/A
Terrestrial Crayfish (TC1)	Yes	Yes	Yes	No	N/A
Common Nighthawk (CN1-13)	Yes	Yes	Yes	No	N/A
Woodland Specific Bird Species of Special Concern (RHWO and EAWP 1-7)	Yes	Yes	Yes	No	N/A
Wood Thrush (WOTH1-5)	Yes	Yes	Yes	No	N/A
Large Yellow Pond Lily	Yes	Yes	Yes	No	N/A
Butterfly Species of Conservation Concern (JH1- 28)	Yes	Yes	Yes	No	N/A



	Feature in Relation to Project Location		Evaluation of Significance Status		
Natural Feature ID	Within	Within Prescribed Setback	Requires Evaluation	Previously Evaluated	Evaluation not Required*
Animal Movement Corridors					
Amphibian Movement Corridors	Yes	Yes	Yes	No	N/A
Generalized Candidate Significant Wildlife Habitat					
Waterfowl Stopover and Staging Areas (Terrestrial; WSST Other)	No	Yes	No	No	Yes
Waterfowl Stopover and Staging Areas (Aquatic; WSSA Other)	No	Yes	No	No	Yes
Shorebird Migratory Stopover & Staging	No	Yes	No	No	Yes
Waterfowl Nesting Area (WNA Other)	No	Yes	No	No	Yes
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat (BEOS Other)	No	Yes	No	No	Yes
Amphibian Breeding Habitat (Wetland; ABHWE Other)	No	Yes	No	No	Yes
Amphibian Breeding Habitat (Woodland; ABHWO Other)	No	Yes	No	No	Yes
Woodland Area-Sensitive Bird Breeding Habitat (ASBB Other)	No	Yes	No	No	Yes
Marsh Breeding Bird Habitat (General ; MBB Other)	No	Yes	No	No	Yes
Marsh Breeding Bird Habitat (Green Heron; GRHE Other)	No	Yes	No	No	Yes
Common Nighthawk (CN Other)	No	Yes	No	No	Yes
Woodland Specific Bird Species of Special Concern (RHW Other; EAWP Other)	No	Yes	No	No	Yes
Turtle Wintering Areas (TWA Other)	No	Yes	No	No	Yes
Seeps & Springs	No	Yes	No	No	Yes
Woodland Raptor Nesting Habitat (WRN Other)	No	Yes	No	No	Yes

\* an evaluation would not be required if the natural feature (i.e., wildlife habitat) is located entirely within the 50 m prescribed setback and has been identified by the MNRF as not likely to be impacted by the development of a solar Project. These natural features are identified as Generalized Candidate Significant Wildlife Habitat for the purposes of the NHA. \*\* Wetlands will be assessed using Appendix C: Wetland Characteristics and Ecological Functions Assessment for Renewable Energy Projects of the Natural Heritage Assessment Guide for Renewable Energy Project (MNRF 2012) and assumed to be provincially significant.



# **5.0 Evaluation of Significance Purpose**

This Evaluation of Significance was completed to evaluate if natural features found within the Project Location or surrounding 50 m are significant or provincially significant<sup>1</sup>. It is consistent with Section 27 of *O. Reg. 359/09*, which states that a person who proposes to engage in a solar renewable energy Project shall evaluate any information available to the person relating to natural features, including all information obtained during the records review, site investigation and in consultation with regulatory agencies, stakeholders and other interested and relevant parties. The aim of the *NHA Evaluation of Significance Report* is to evaluate the natural features identified in the *NHA Site Investigation Report* and summarized in **Table 2** above, in accordance with Section 27 of *O. Reg. 359/09* to determine:

- Whether a natural feature is significant if it is a woodland or wildlife habitat.
- Whether a natural feature is provincially significant if it is a southern wetland, a northern wetland, a coastal wetland, an area of natural scientific interest (earth science) or an area of natural and scientific interest (life science).

If a natural feature identified during the site investigation has not been previously evaluated by the MNRF, it is required to be evaluated using criteria and procedures established or accepted by the MNRF. Where appropriate studies to determine the significance of a wildlife habitat have not been conducted (e.g. due to timing windows for surveys, etc.), the *Natural Heritage Assessment Guide for Renewable Energy Projects* (MNRF 2012) states that the candidate wildlife habitat may be treated as significant for the purposes of the NHA. Wildlife habitat treated as significant will be clearly identified in this report and the necessary commitments will be made in the EIS for its evaluation (where required).

<sup>1</sup> For the purposes of the *NHA Evaluation of Significance Report,* use of the word significant may also mean "treated as significant" for wildlife habitat and use of the phrase "provincially significant" may also mean "assumed provincially significant" for wetlands within 50 m of the Project Location that were evaluated using the methods described in **Section 6.2**.

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# 6.0 Evaluation of Significance Methodology

The following sections provide evaluation criteria and procedures used to evaluate the natural features determined to be within the Project Location and/or within the surrounding prescribed 50 m setback during the records review and/or site investigation. Criteria and procedures reported are those that are currently accepted by the MNRF. Additional evaluation criteria and procedures required to confirm the status of wildlife habitat treated as significant will be provided in the *NHA EIS Report*, if required.

### 6.1 Access to Adjacent Lands

As outlined in *Ontario Regulation 359/09*, all lands within 50 m of the Project Location must be assessed for natural features and resources. Access was not granted by some of the landowners to some lands located within 50 m of the Project Location boundary; all landowners participating in the Project granted access to facilitate field investigations. Where access was not granted, or there was a concern related to health and safety that prevented accessing the natural feature, vegetation community boundaries were determined through the review of aerial photography/satellite imagery. In addition, natural features located on adjacent lands where access was not available were assessed from safe vantage points, property lines and road rights-of-way, where applicable. Areas where alternative site investigations were completed, are identified in Appendix D *Figure D1* of the *NHA Site Investigation Report*.

### 6.2 Wetlands

Wetlands within the Project Location and surrounding prescribed 50 m setback were determined to be southern wetlands based on their location south of the northern limit of Ecoregion 6E as shown in Figure 1 of the *Provincial Policy Statement, 2005*. The evaluation of southern wetlands within 50 m of the Project Location was completed using the *Wetland Characteristics and Ecological Functions Assessment for Renewable Energy Projects* (MNRF 2012). This process identifies individual wetlands and wetland complexes and measures wetland functions and values, providing a framework for evaluating the relative importance of individual wetlands. The criteria and procedures found within are based on sections of the Ontario Wetland Evaluation System ("OWES") guidelines (MNRF 2014), reflective of their southern designation, and were applied by a qualified professional, who has received MNRF training in the use of OWES. The evaluation uses information collected during the records review and site investigation stages of the *NHA*. Wetlands within the 50 m setback area may be assumed provincially significant and assessed using Appendix C of the Natural Heritage Assessment Guide for Renewable Energy Projects (MNRF 2012).

Please note that, as stated within Appendix C: Wetland Characteristics and Ecological Functions Assessment for Renewable Energy Projects, *"The assessment, however, will not be used to officially define the status of wetlands (either as provincially significant or not significant) and may not be used for projects other than renewable energy projects or renewable energy testing projects as defined in the Green Energy Act".* 



#### **Woodlands** 6.3

As outlined in the MNRF's Natural Heritage Assessment Guide for Renewable Energy Projects (MNRF 2012), and the Natural Heritage Reference Manual (MNRF 2010), for a woodland feature to be significant it must first meet minimum standards for tree crown cover (minimum 60%). If these minimum standards are met, it is then evaluated based on size criterion, ecological function criteria, and uncommon characteristics criteria. Many of the criteria have minimum size thresholds that are based on the percentage of woodland cover in the municipality where the project has been proposed (Township of Stone Mills). Woodlands that meet the minimum standard for any one of the criteria are considered significant.

#### Wildlife Habitat 6.4

The Significant Wildlife Habitat Technical Guide ("SWHTG", MNRF 2000) and associated Ecoregion 6E Criteria Schedule (MNRF 2015) is the authoritative source for the identification and evaluation of significant wildlife habitat. Information collected to evaluate wildlife habitat as significant often requires specific studies targeted to the species, the habitat, or both. The criteria considered and how they were applied in the evaluation of each of the candidate significant wildlife habitats identified in the NHA Site Investigation Report are discussed in Section 8.3.

Where appropriate studies to determine the significance of a wildlife habitat have not been conducted, wildlife habitat will be treated as significant. The methods to be implemented in order to confirm the status of wildlife habitat treated as significant will be outlined in the NHA EIS Report, where required.

#### Seasonal Concentration Area 6.4.1

### 6.4.1.1

### Waterfowl Stopover and Staging Area (Terrestrial & Aquatic)

As surveys within this habitat did not occur during the spring migration period in 2016, all Candidate Waterfowl Stopover and Staging Area habitat will be treated as significant and additional waterfowl surveys will be completed prior to construction to confirm if the habitat is significant. At this time, the habitat will be treated as significant and carried forward to the NHA EIS Report.

#### 6.4.1.2 **Turtle Wintering Areas**

Turtle wintering habitat was identified as candidate habitat based on the Ecological Land Classification ("ELC") surveys and the resulting permanent open aquatic areas with shallow marsh habitat. Based on timing of field work, surveys for overwintering turtles within the surrounding lands was not undertaken prior to the submission of this report. Incidental observations of this habitat area noted several turtles utilizing the area. At this time, the candidate habitat will be treated as significant and carried forward to the NHA EIS Report.



#### 6.4.1.3 **Reptile Hibernaculum**

Hibernation occurs below the frost lines in rock crevices, broken and fissured rock. During ELC field investigations, as well as breeding bird survey station area searches, deep fractures and fissures were observed in some candidate significant wildlife habitats. Surveys for overwintering snakes were not undertaken prior to the submission of this report. As such, habitat could be present in the landscape and therefore this candidate wildlife habitat will be treated as significant and carried forward into the NHA EIS Report.

#### Colonially Nesting Bird Breeding Habitat (Ground; Trees & Shrubs) 6.4.1.4

Habitats were evaluated using breeding bird surveys following the methodology in the Bird and Bird
Habitats: Guidelines for Wind Power Projects (MNRF, 2011). The surveys were completed within
candidate significant Colonially Nesting Bird Habitats, on accessible lands, from late May to July of 2016
(three surveys over this time period). Specifically, breeding bird surveys consisted of ten-minute point
counts that were used to establish quantitative estimates of bird abundance in major habitat types in
the Project Location and surrounding 50 m setback. To supplement the survey, area searches of the
habitat were completed to observe species presence and breeding activity. Area searches involved
noting all individual bird species and their corresponding breeding evidence while traversing the habitat
on foot. In areas where point count stations were not within 100 m of a candidate colonially nesting bird
breeding habitat, or where permission was not attainable, those habitats will be treated as significant
and carried forward to the NHA EIS Report. Based on access permissions, habitat will not be further
evaluated prior to construction. See Figure B1 of Appendix B for locations of point counts and the area
search routes.

#### **Rare Vegetation Communities** 6.4.2

### Alvar 6.4.2.1 These habitats were evaluated using vegetation assessments with a focus on alvar indicator species as outlined in the Significant Wildlife Habitat Criteria Schedule for Ecoregion 6E (MNRF 2015). **Old Growth Forest** 6.4.2.2 These habitats were characterized using ELC field investigations, observations noted during evaluation

of significance field studies and supporting documentation of woodlands from the MNRF Forestry Resource Inventory mapping.



### 6.4.3 Specialised Wildlife Habitat

### 6.4.3.1 Waterfowl Nesting Area

These candidate habitats were evaluated using breeding bird surveys following the methodology in the Bird and Bird Habitats: Guidelines for Wind Power Projects (MNRF, 2011). The surveys were completed within candidate significant Waterfowl Nesting Area, on accessible lands, from late May to July of 2016 (three surveys over this time period).

Specifically, breeding bird surveys consisted of ten-minute point counts that were used to establish quantitative estimates of bird abundance in major habitat types of the study area. To supplement the survey, area searches of the habitat were completed to observe species presence and breeding activity.

Area searches involved noting all individual bird species and their corresponding breeding evidence while traversing the habitat on foot. In areas where point count stations were not within 100 m of a candidate waterfowl nesting area, or where access permission was not attained, those habitats will be treated as significant and carried forward to the *NHA EIS*. Based on access permissions, candidate waterfowl nesting habitat in areas without access permission will not be further evaluated prior to construction. See **Figure B1** of *Appendix B* for locations of point counts and the area search routes.

### 6.4.3.2 Bald Eagle & Osprey Nesting, Foraging, and Perching Habitat

When field studies began in the candidate Bald Eagle & Osprey Nesting, Foraging, and Perching Habitat in April 2016 (see *NHA Site Investigation Report*), no observations of stick nests were noted in areas of the woodlands that were accessible during a time where nests are more visible (i.e. before leaf out on deciduous trees). This habitat was subsequently evaluated during the breeding bird surveys following the methodology in the Bird and Bird Habitats: Guidelines for Wind Power Projects (MNRF, 2011). The surveys were completed within candidate Bald Eagle & Osprey Habitat, on accessible lands, from late May to July of 2016 (three surveys over this time period). Specifically, breeding bird surveys consisted of ten-minute point counts that were used to establish quantitative estimates of bird abundance in major habitat types of the study area. To supplement the survey, area searches of the habitat were completed to observe species presence and breeding activity. Area searches involved noting all individual bird species and their corresponding breeding evidence while traversing the habitat on foot. See **Figure B1** of *Appendix B* for locations of point counts and the area search routes.

### 6.4.3.3 Amphibian Breeding Habitat (Wetland & Woodland)

Amphibian monitoring followed the Marsh Monitoring Program protocol (Bird Studies Canada, 2009). Three different surveys were conducted between April 1 and June 30, 2016, with at least two weeks between each survey. Surveys began at least one-half hour after sunset during evenings with a minimum night temperature of 5°C, 10°C, 17°C for each of the three respective surveys. Survey points aligned with wetland features observed within each of the candidate habitats (**Figure B2** in *Appendix B*).

Each amphibian survey generally involved standing at a predetermined station for 3 minutes and listening to amphibian calls. The calling activity of individuals estimated to be within 100 m of the observation point were documented.



All individuals beyond 100 m were recorded as outside of the count circle and calling activity was not recorded. Calling activity was then ranked using one of the following three abundance code categories:

Code 1: Calls not simultaneous, number of individuals can be accurately counted

Code 2: Some calls simultaneous, number of individuals can reliably be estimated

Code 3: Calls continuous and overlapping, the number of individuals cannot me estimated

In areas where appropriate candidate habitat was observed, vernal pools were also visually examined for egg masses and amphibian larvae in conjunction with other field surveys. These searches occurred between April and June when amphibians were concentrated around the suitable breeding habitat.

Searches involved walking along the perimeter of the vernal pools/ wetlands, looking for egg masses or juveniles as indicators of amphibian breeding. Searches focused on submergent vegetation and woody debris where amphibians will attach single eggs or masses of eggs.

### 6.4.3.4 Woodland Area-Sensitive Bird Breeding Habitat

These habitats were evaluated using breeding bird surveys following the methodology in the Bird and Bird Habitats: Guidelines for Wind Power Projects (MNR, 2011). Surveys were completed within candidate habitat, on accessible lands, from late May to July of 2016 (three surveys over this time period). Specifically, breeding bird surveys consisted of ten-minute point counts that were used to establish quantitative estimates of bird abundance in major habitat types of the study area. To supplement the survey, area searches of the habitats were completed to observe species presence and breeding activity. Area searches involved noting all individual bird species and their corresponding breeding evidence while traversing the habitats on foot. See **Figure B1**of *Appendix B* for survey points/routes within the candidate woodland area-sensitive bird breeding habitat.

### 6.4.3.5 Woodland Raptor Nesting Area

When field studies began in the candidate Woodland Raptor Nesting habitat in April 2016 (see *NHA Site Investigation Report*), no observations of stick nests were noted in the areas of woodland that were accessible during a time nests are more visible (i.e. before leaf out on deciduous trees). This habitat was subsequently evaluated during the breeding bird surveys following the methodology in the Bird and Bird Habitats: Guidelines for Wind Power Projects (MNR, 2011). The surveys were completed within candidate significant Woodland Raptor Nesting habitat, on accessible lands, from late May to July of 2016 (three surveys over this time period). Specifically, breeding bird surveys consisted of ten-minute point counts that were used to establish quantitative estimates of bird abundance in major habitat types of the study area. To supplement the survey, area searches of the habitat were completed to observe species presence and breeding activity. Area searches involved noting all individual bird species and their corresponding breeding evidence while traversing the habitat on foot. See **Figure B1** of *Appendix B* for locations of point counts and the area search routes.



### 6.4.3.6 Turtle Nesting Site

This specialized habitat was identified as candidate habitat based on the conducted ELC surveys and the resulting permanent open aquatic areas within meadow marsh and shallow marsh habitat. Turtle nesting habitat was evaluated by performing visual encounter surveys to identify congregations of turtles on warm, sunny days during the prime nesting season (late May to June).

Nesting surveys occurred on May 11, 12, 17, 30 and June 1, 2016. Visual searches included observations of appropriate nesting substrate and basking features present within the candidate habitat, including large rocks, man-made structures, logs, branches, and shoreline.

Notes were taken to indicate where in the delineated habitat turtles were observed (if applicable). See **Figure B1** of **Appendix B** for survey points within the candidate habitat.

### 6.4.4 Habitat for Species of Conservation Concern

### 6.4.4.1 Marsh Breeding Bird Habitat (General & Green Heron)

Diurnal breeding bird surveys conducted within the Project Location and 50 m setback followed the methods outlined in the Bird and Bird Habitats: Guidelines for Wind Power Projects (MNR, 2011), and were completed from late May to July of 2016 (three surveys over this time period). Specifically, breeding bird surveys consisted of ten-minute point counts that were used to establish quantitative estimates of bird abundance in major habitat types in the Project Location and surrounding 50 m. To supplement the surveys, area searches of the habitat were completed using binoculars to observe species presence and breeding activity. Area searches involved noting all individual bird species and their corresponding breeding evidence while traversing the habitat on foot. A map of the surveys completed for this habitat is included in **Figure B1**of *Appendix B* for survey points/routes within the candidate Marsh Breeding Bird Habitat (General & Green Heron, respectively).

### 6.4.4.2 Terrestrial Crayfish

This specialized habitat was identified as candidate habitat based on the conducted ELC surveys and the resulting wet meadows, shallow marshes and swamps. Based on health and safety concerns with accessing the wetland areas where this habitat occurs (primarily a cattail marsh area with pockets of deep water and a thick layer of loose organic substrate), surveys for Terrestrial Crayfish were not undertaken. The candidate habitat will be treated as significant and carried forward to the *NHA EIS Report*.

6.4.5	Special Concern and Rare Wildlife Species
	Observations of Species of Conservation Concern were primarily completed as part of other surveys outlined above. During the site investigation, six Species of Conservation Concern were identified with the potential to occur based on the occurrence of appropriate habitat.
6.4.5.1	Common Nighthawk
	For evaluation of candidate Common Nighthawk habitat, crepuscular bird breeding surveys were conducted over at least two visits from May to early July of 2016 during periods with at least 50% lunar illumination and low cloud cover. These surveys followed the Nightjar Monitoring Protocol provided by the MNRF (2011) and generally consisted of ten minute point counts where suitable habitat for target species occurred and was accessible. Point count locations for these surveys are shown on <b>Figure B1</b> of <b>Appendix B</b> .
6.4.5.2	Woodland Specific Bird Species of Special Concern (Red-headed Woodpecker and Eastern Wood-Pewee)
	These habitats were evaluated using breeding bird surveys following the methodology in the Bird and Bird Habitats: Guidelines for Wind Power Projects (MNR 2011). Surveys were completed within candidate Red-headed Woodpecker and Eastern Wood-Pewee habitat, on accessible lands, from late May to July of 2016 (three surveys over this time period).
	Specifically, breeding bird surveys consisted of ten-minute point counts that were used to establish quantitative estimates of bird abundance in major habitat types of the study area. To supplement the survey, area searches of the habitats were completed to observe species presence and breeding activity. Area searches involved noting all individual bird species and their corresponding breeding evidence while traversing the habitats on foot. See <b>Figure B1</b> of <i>Appendix B</i> for survey points/routes within the candidate Red-headed Woodpecker breeding habitat.
6.4.5.3	Wood Thrush
	These habitats were evaluated using breeding bird surveys following the methodology in the Bird and Bird Habitats: Guidelines for Wind Power Projects (MNR, 2011). Surveys were completed within candidate Wood Thrush habitat, on accessible lands, from late May to July of 2016 (three surveys over this time period). Specifically, breeding bird surveys consisted of ten-minute point counts that were used to establish quantitative estimates of bird abundance in major habitat types of the study area. To supplement the survey, area searches of the habitats were completed to observe species presence and breeding activity. Area searches involved noting all individual bird species and their corresponding breeding evidence while traversing the habitats on foot. See <b>Figure B1</b> of <b>Appendix B</b> for survey points/routes within the candidate Wood Thrush habitat.
6.4.5.4	Yellow Pond Lily
	The habitat of this species includes alkaline and neutral water 0.5 to 2.0 m deep. Blooming occurs from May to October. Surveys included incidental observations noted by site investigators responsible for the identification of both natural features and water bodies.
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### 6.4.5.5 Juniper Hairstreak

Habitat for this species was characterized using ELC field investigations as well as vegetation assessments. This species prefers juniper vegetation during the breeding season as their caterpillar hosts. Ground juniper exists ubiquitously throughout the Project Location and 50 m setback. As such, habitat will be treated as significant and carried forward into the *NHA EIS Report*.

### 6.4.6 Animal Movement Corridors

Amphibian corridors are only considered once wetland Amphibian Breeding Habitat has been evaluated as significant. Should candidate wetland Amphibian Breeding Habitat be evaluated as significant as part of this evaluation of significance, the candidate amphibian movement corridor identified in the NHA Site Investigation Report will be treated as significant and carried forward into the NHA EIS Report.



# 7.0 Names and Qualifications on Site Investigations

The names and qualifications of all site investigators are outlined in **Table 3** below. All site investigators listed below have been involved with the Project since the initiation of this work.

Dayna LeClair (DLC)
<ul> <li>M.Sc. University of Guelph, 2012</li> <li>B.Sc. (Hons), Trent University, 2010</li> <li>Fish and Wildlife Technology Advanced Diploma, 2008</li> <li>Fish and Wildlife Technician Diploma, 2007</li> </ul>
6 years
<ul> <li>Diurnal Breeding Bird Surveys</li> <li>Crepuscular Breeding Bird Surveys</li> <li>Amphibian Breeding Surveys</li> <li>Ecological Land Classification</li> <li>Incidental Wildlife Observations</li> </ul>
<ul> <li>Ecological Land Classification for Southern Ontario (2009)</li> <li>North American Bird Council (Trainer)</li> <li>Class II Electrofishing Certification</li> </ul>
Jonathan Harris (JWH)
<ul> <li>Fish and Wildlife Technician Diploma</li> <li>Fish and Wildlife Technology Advanced Diploma</li> <li>International Society of Arboriculture (ISA) Certified Arborist (member- Ontario Chapter)</li> <li>Affiliated with Ontario Field Ornithologists, Ontario Invasive Plant Council, Ontario Field Botanists, Toronto Field Naturalists, and Ontario Nature</li> </ul>
9 years (over 30 renewable Projects)
<ul> <li>Diurnal Breeding Bird Surveys</li> <li>Crepuscular Breeding Bird Surveys</li> <li>Amphibian Breeding Surveys</li> <li>Ecological Land Classification</li> <li>Alvar Delineation</li> <li>Wetland Delineation</li> <li>Incidental Wildlife Observations</li> </ul>
<ul> <li>Ecological Land Classification for Southern Ontario (2011)</li> <li>Ontario Wetland Evaluation System Certification (2012)</li> <li>MNRF Bat Maternity Colony Training (2012)</li> </ul>

Table 3: Name and Qualifications of Site Investigators





Name:	Ryan Godfrey (RMG)
Degrees and Professional Designations:	<ul> <li>B.Sc. University of British Columbia, 2010</li> <li>M.Sc. University of Toronto, 2014</li> <li>Affiliated with Field Botanists of Ontario, North American Native Plant Society</li> </ul>
Years of Experience:	2 years
Project Role:	<ul><li>Diurnal Breeding Bird Surveys</li><li>Vegetation Assessment</li></ul>
Professional Memberships/ Experience:	<ul> <li>Ontario Invasive Plant Council</li> <li>North American Native Plant Society</li> <li>Field Botanists of Ontario</li> <li>Royal Ontario Museum Herbarium Intern</li> <li>Royal Botanical Gardens Herbarium Intern</li> </ul>
Name:	Kelly McLean (KLM)
Degrees and Professional Designations:	<ul> <li>M.Sc. Geography and Environmental Management</li> <li>B.Sc. Environmental Biology and Technology</li> </ul>
Years of Experience:	4 years
Project Role:	Amphibian Breeding Surveys
Certifications:	<ul><li>ROM Fish Identification certificate</li><li>Class 1 Electrofishing certification</li></ul>
Name:	Cale Hartin (CH)
Degrees and Professional Designations:	<ul> <li>B.Sc. Honours Biology / Environmental &amp; Resources Sciences</li> <li>Fish and Wildlife Technical Diploma</li> <li>Fish and Wildlife Technology Advanced Diploma</li> <li>Affiliated with American Fisheries</li> </ul>
Years of Experience:	• 4 Years
Project Role:	<ul><li>Watercourse Assessment Surveys</li><li>Incidental Wildlife Observations</li></ul>
Certifications:	<ul> <li>Level 2 Backpack E-fishing Crew Leader, 2014</li> <li>Ontario Benthic Bio-Monitoring Network</li> </ul>
Name:	Kate Roper (KR)
Degrees and Professional Designations:	<ul> <li>M.Env.Sc. University of Toronto, in progress</li> <li>B.Sc. Honours, Queens University, 2012</li> </ul>
Years of Experience:	2 Years
Project Role:	<ul><li>Amphibian Breeding Survey</li><li>Incidental Wildlife Observations</li></ul>
Certifications:	<ul> <li>Ontario Benthos Biomonitoring Network (OBBN) Certification, 2015</li> </ul>



Name:	Sean Robinson (SJR)
Degrees and Professional Designations:	<ul> <li>B.Sc. University of Guelph, 2008</li> <li>Certificate of Environmental Conservation, University of Guelph, 2010</li> </ul>
Years of Experience:	• 6 Years
Project Role:	<ul><li>Watercourse Assessment Survey</li><li>Incidental Wildlife Observations</li></ul>
Certifications:	Canadian Certified Inspection of Sediment and Erosion Control (CISEC, 2015)
Name:	Dale Kristensen (DK)
Degrees and Professional Designations:	<ul> <li>M.Sc., Queen's University, 1996</li> <li>B. Sc., University of Guelph, 1981</li> </ul>
Years of Experience:	29 Years
Project Role:	Alvars Surveys
Certifications:	Certified Butternut Health Advisor

Overall, data collected from field evaluation studies of the Project Location in support of the site investigation and evaluation of significance work took place from April to October 2016 (see **Table 4**) and all field notes can be found in Appendix A of the *NHA Site Investigation Report* and in *Appendix C*. Analysis of the data and reporting effort was conducted from July 2016 to October 2016. This *NHA* was led by Jennifer Petruniak, M.Sc. Jennifer is a Biologist with over ten years of experience and has been qualified as an Expert in the NHA process for renewable energy facilities by the Environmental Review Tribunal.



Table 4:	Site Evaluation Dates									
				urs)	Co	Veathei ondition (Field ervatio	IS	Weather Conditions (EC* Station)		
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Cloud Cover (%)	Average Air Temp.(°C)	Wind (Speed(km/h)/ Direction)(degrees)	Precipitation (mm)
April 27	Amphibian Survey #1; Incidental Observations; SWH^ characteristic observations	JWH; KLM	20:42	2.75	7	0-2	0	4.8	39/21	0.0
April 28	Amphibian Survey #1; Incidental Observations; SWH^ characteristic observations	JWH; KLM	20:48	1.5	7	0-1	20-50	4.0	32/7	0.0
May 04	Amphibian Survey #1; Incidental Observations; SWH^ characteristic observations	JWH	20:52	3.0	12	1-3	50	11.3	32/4	1.0
May 11	Turtle Survey #1; Incidental Observations; SWH^ characteristic observations	DLC; JWH	9:28	2.5	11	0-2	10	10	<31/NA	0.0
May 12	Turtle Survey #1; Incidental Observations; SWH^ characteristic observations	DLC; JWH	11:30	2.0	22-23	0	30	15.3	<31/NA	0.0
May 17	Turtle Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	9:06	4.5	10-18	0-2	0-50	10.6	32/21	0.0
May 17	Alvar Surveys; Incidental Observations; SWH^ characteristic observations	DK; JWH	8:00	7.5	-	-	-	_	-	-

 Table 4:
 Site Evaluation Dates, Times, Duration and Weather Conditions



			0	urs)	Co	Veather Indition (Field ervatio	IS	Weather Conditions (EC* Station)			
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Cloud Cover (%)	Average Air Temp.(°C)	Wind (Speed(km/h)/ Direction)(degrees)	Precipitation (mm)	
May 20	Alvar Surveys	DK	8:00	7.5	NR	NR	NR	8.8	<31/NA	0.0	
May 23	Breeding Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC; JWH	5:02	4.50	10-15	0	0	19.0	<31/NA	0.0	
May 23	Amphibian Survey #2; Incidental Observations; SWH^ characteristic observations	DLC; JWH	21:05	1.75	19-26	0-1	0-10	19.0	<31/NA	0.0	
May 24	Amphibian Survey #2; Incidental Observations; SWH <sup>^</sup> characteristic observations	DLC; KR	21:14	2.5	22	0	10	18.8	<31/NA	0.0	
May 25	Amphibian Survey #2; Incidental Observations; SWH^ characteristic observations	JWH; KR	21:11	1.5	23	0	20	20.0	35/23	0.0	
May 26	Crepuscular Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	20:14	1.0	20	0	60	22.5	<31/NA	0.2	
May 27	Breeding Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	5:03	3.50	14-18	0	20-80	22.3	<31/NA	0.0	
May 27	Turtle Survey #3; Incidental Observations; SWH^ characteristic observations	DLC	9:00	3.5	23-29	0-1	10-30	20.3	<31/NA	0.0	

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			a	ours)	Co	Veather ondition (Field ervatio	S	Weather Conditions (EC* Station)		
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Cloud Cover (%)	Average Air Temp.(°C)	Wind (Speed(km/h)/ Direction)(degrees)	Precipitation (mm)
May 30	Breeding Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	5:00	4.00	19-21	0-3	90	23.0	43/23	0.0
May 30	Crepuscular Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	20:13	1.0	26	3	0	23.0	42/23	0.0
May 30	Turtle Survey #4; Incidental Observations; SWH^ characteristic observations	DLC	10:00	1.5	26	2-3	0-70	3.3	43/23	0.0
May 31	Breeding Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	5:10	4.50	13-18	1-2	0	19.3	44/34	0.0
May 31	Crepuscular Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	20:04	0.5	20	3-4	30	19.3	44/34	0.0
June 01	Breeding Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	5:00	2.00	8-18	1-2	0	16.3	<31/NA	0.6
June 01	Crepuscular Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	20:35	0.75	8	0	N/A	16.3	<31/NA	0.6



			a	ours)	Co	Weather Conditions (Field Observations)			Weather Conditions (EC* Station)			
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Cloud Cover (%)	Average Air Temp.(°C)	Wind (Speed(km/h)/ Direction)(degrees)	Precipitation (mm)		
June 01	Turtle Survey #5; Incidental Observations; SWH^ characteristic observations	DLC	7:45	1.75	13-16	0-2	0-50	15.9	<31/NA	0.0		
June 02	Breeding Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	6:50	1.15	17	2	100	20.0	41/17	0.0		
June 02	Crepuscular Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	20:10	1.0	14	0-1	0	20.0	41/17	0.0		
June 03	Breeding Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	4:55	2.75	10-14	0	0	18.5	33/20	0.0		
June 06	Crepuscular Bird Survey #1; Incidental Observations; SWH^ characteristic observations	DLC	20:20	0.25	19	1	100	19.0	50/23	6.6		
June 07	Breeding Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	5:00	3.75	14	0	100	15.8	44/27	1.4		
June 07	Crepuscular Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	20:10	0.75	19	1	80	15.8	<31/NA	1.4		



			0	ours)	Co	Veather ondition (Field servation	S	Weather Conditions (EC* Station)		
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Cloud Cover (%)	Average Air Temp.(°C)	Wind (Speed(km/h)/ Direction)(degrees)	Precipitation (mm)
June 08	Breeding Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	4:46	4.00	10	1	100	12.5	41/29	0.8
June 09	Breeding Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	5:00	4.50	7	1	100	13.3	48/27	0.0
June 09	Alvar Survey	DK	8:00	7.5	11	2	50	14	48/27	0.0
June 09	Crepuscular Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	20:20	0.5	15	3	20	13.3	48/27	0.0
June 10	Breeding Bird Survey #2; Incidental Observations; SWH <sup>^</sup> characteristic observations	DLC	5:05	2.75	7-10	1	0	14.0	35/20	11.(
June 13	Crepuscular Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	20:20	0.75	19	3	70	16.3	69/34	0.0
June 14	Breeding Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	4:45	5.0	5-9	1	0	15.0	32/19	0.0
June 15	Breeding Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	4:47	4.25	7	0	0	16.8	<31/NA	0.0

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			0	urs)	Co	Veather Indition (Field ervation	S	Weather Conditions (EC* Station)			
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Cloud Cover (%)	Average Air Temp.(°C)	Wind (Speed(km/h)/ Direction)(degrees)	Precipitation (mm)	
June 15	Alvar Survey	DK	8:00	7.5	16	0	0	14.2	<31/NA	0.0	
June 15	Amphibian Survey #3; Incidental Observations; SWH^ characteristic observations	JWH; KR	21:27	2.5	17-22	0	100	16.8	<31/NA	0.0	
June 16	Breeding Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	5:10	3.00	18	1	30	21.8	37/9	0.0	
June 16	Amphibian Survey #3; Incidental Observations; SWH^ characteristic observations	JWH; KR	21:22	2.25	21	0-1	0	21.8	37/9	0.0	
June 17	Breeding Bird Survey #3; Incidental Observations; SWH^ characteristic observations	DLC	5:00	3.75	11-12	0-1	20	20.0	<31/NA	0.0	
June 20	Breeding Bird Survey #3; Incidental Observations; SWH^ characteristic observations	DLC	4:50	4.50	17-18	0	20	23.3	69/27	25.2	
June 21	Breeding Bird Survey #3; Incidental Observations; SWH^ characteristic observations	DLC	4:53	3.00	12-16	1-2	20	17.0	41/26	2.2	
June 21	Alvar Surveys	DK	7:30	8.0	16	1	30	19.0	41-26	2.2	



			0	ours)	Co	Weather Conditions (Field Observations)			Weather Conditions (EC* Station)		
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Cloud Cover (%)	Average Air Temp.(°C)	Wind (Speed(km/h)/ Direction)(degrees)	Precipitation (mm)	
June 21	Crepuscular Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	20:20	1.0	23	3	40	17.0	41/26	2.2	
June 24	Breeding Bird Survey #3; Incidental Observations; SWH^ characteristic observations	DLC	5:30	1.00	18	0	20	17.8	<31/NA	0.0	
June 27	Breeding Bird Survey #3; Incidental Observations; SWH^ characteristic observations	DLC	5:05	3.50	22	2-3	10	24.8	32/19	0.0	
June 27	Crepuscular Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	20:30	1.0	28	0	70	24.8	32/19	0.0	
June 28	Breeding Bird Survey #3; Incidental Observations; SWH^ characteristic observations	DLC	4:55	3.50	19-23	0	60	21.8	41/34	6.6	
June 28	Crepuscular Bird Survey #2; Incidental Observations; SWH^ characteristic observations	DLC	20:24	0.50	16	2	N/A	21.8	41/34	6.6	
June 29	Breeding Bird Survey #3; Incidental Observations; SWH^ characteristic observations	DLC	7:00	0.50	12	2	100	20.3	32/18	2.0	



			0)	ours)	Co	Veather Indition (Field ervation	S	Weather Conditions (EC* Station)		
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Cloud Cover (%)	Average Air Temp.(°C)	Wind (Speed(km/h)/ Direction)(degrees)	Precipitation (mm)
June 30	Breeding Bird Survey #3; Incidental Observations; SWH <sup>^</sup> characteristic observations	DLC	4:57	4.00	14-16	0	0	19.5	<31/NA	0.0
July 07	Breeding Bird Survey #3; Incidental Observations; SWH^ characteristic observations	JWH	5:28	3.00	19-22	0	100	26.5	33/5	0.0
Sept 29	ELC – Alvars; Incidental Observations; SWH^ characteristic observations	DLC; RG	10:30	6.0	15	3	14.8	37/4	0.0	
Sept 30	ELC – Alvars; Incidental Observations; SWH^ characteristic observations	DLD; RG	7:30	6.0	12	2	14.3	<31/N A	0.0	
October 4	Observations		10:30	5.0	10	1	13.8	<31/N A	0.0	
т	otal Duration of Field	Work (staff hours	;)	232.15						

\*Closest Environment Canada (EC) Weather Station is in Kingston, Ontario. All EC Data refers to daily values; n/a indicates the information was not available from an Environment Canada weather station from the date/time of field work.



# **Evaluation of Significance Results**

The following sections summarize the results of the evaluation of significance using criteria and procedures accepted by the MNRF. A complete list of species, representative photographs and field notes can be found in the *NHA Site Investigation Report* appendices.

### 8.1 Wetlands

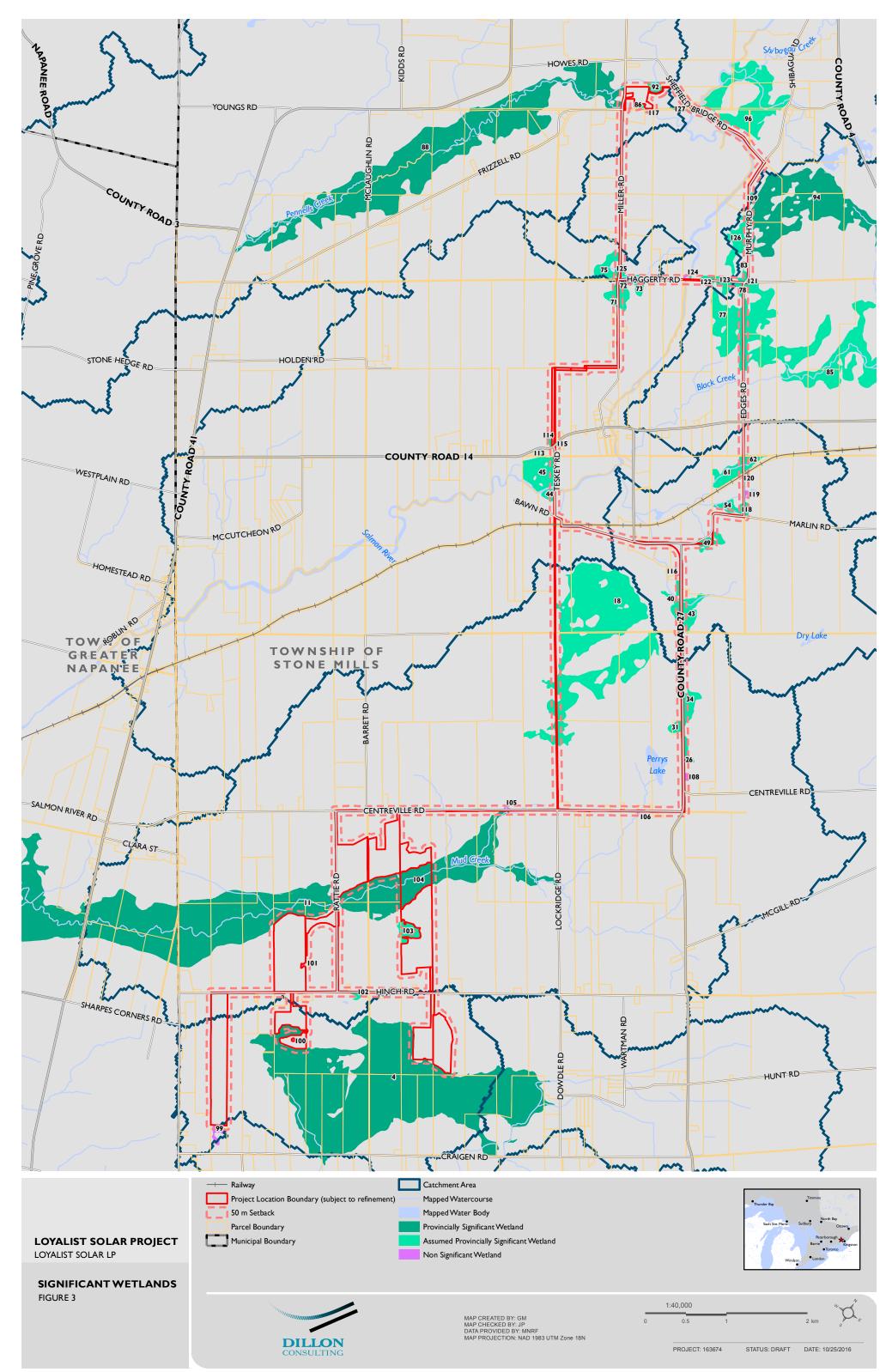
Southern wetlands that met the minimum size criteria (i.e.,  $\ge 2$  ha) for evaluation, or met the criteria for including wetlands in a complex, were assumed to be provincially significant. Of the 51 distinct wetlands areas that occur within 50 m of the Project Location, the following groupings were compiled:

- Twenty-five wetlands (i.e. Wetlands 4, 11, 18, 34, 40, 43, 44, 45, 49, 54, 61, 62, 71, 72, 75, 77, 78, 85, 88, 94, 96, 103, 104, 125, 126) were greater than two hectares.
- Thirteen wetlands (Wetlands 26, 31, 73, 83, 86, 92, 102, 109, 114, 118, 122, 123, and 127) were under 2 ha but over 0.5 ha and within 750 m of another assumed provincially significant wetland.
- One wetland (i.e. Wetland 117) was less than 0.5 ha but contains significant natural features which would warrant inclusion into the wetland complex.
- Twelve wetlands (i.e. Wetlands 99, 100, 101, 105, 106, 108, 115, 116, 119, 120, 121, 124) have been excluded on the basis of size (i.e., less than 2 ha). For those wetlands less than 2 ha, but greater than 0.5 ha (and therefore may be considered based on the wetland complex rule), no significant features were identified that warrant inclusion in into the greater wetland complex.

From the *NHA Site Investigation Report*, seven wetlands are no longer applicable to the Project Location (i.e., 30, 33, 41, 110, 111, 112 and 113).

**Figure 3** identifies those wetlands assumed to be provincially significant or previously evaluated as provincially significant. A summary of each wetland documented during the records review and site investigation is provided below in accordance with Appendix C: Wetland Characteristics and Ecological Functions Assessment for Renewable Energy Projects of the Natural Heritage Assessment Guide for Renewable Energy Projects (MNRF 2012). Please note, where a wetland unit is part of a larger, previously evaluated, provincially significant wetland complex, only the unit within the Project Location and/or surrounding 50 m setback area has been summarized. The purpose of defining the wetland features presented in **Table 5** is to inform the NHA EIS Report. Field notes supporting the wetland evaluations are provided in Appendix A of the NHA Site Investigation Report. Where available, the previous wetland evaluation records from the MNRF were also reviewed and applied (see the NHA Records Review Report).





FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\EOS\Figure 3 Significant Wetlands.mxd

 Table 5:
 Rapid Assessment to Determine Wetland Characteristics and Ecological Functions

Wetland ID Number	Wetland Size (ha)	Wetland Type	Site Type	Vegetation Communities (* denotes dominant vegetation form)	Proximity to Other Wetlands	Interspersion	Open Water Type	Flood Attenuation	Water Quality Improvement	Shoreline Erosion Control	Groundwater Recharge	Species Rarity	Significant Features and Habitat	Fish Habitat
4 Hinch Swamp PSW	306.3 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not	in the wetland unit include: Swamp Maple Organic Deciduous Swamp (SWDO2-3) Reed Canary Grass	Palustrine This palustrine wetland doesn't appear to be connected to other wetlands within 50 m of the Project Location but has	<ol> <li>H* - Swamp Maple (Acer x freemanii), Green Ash (Fraxinus pennsylvanica), Black Ash (Fraxinus nigra), White Elm (Ulmus americana), Eastern Cottonwood (Populus deltoides), Ts - Willow species (Salix sp.), Ls - Red-osier Dogwood (Cornus sericea ssp. sericea), Bristly Dewberry (Rubus hispidus), Gc - Sensitive Fern (Onoclea sensibilis), Marsh Fern (Thelypteris palustris var. pubescens), Wild Sarsaparilla (Aralia nudicaulis), Marsh Bedstraw (Galium palustre), Ne - Hop Sedge (Carex lupulina), Fox Sedge (Carex vulpinoidea), Be - Smartweed species (Persicaria sp.) FF - Lesser Duckweed (Lemna minor)</li> <li>Ne* - Reed Canary Grass (Phalaris arundinacea), Hop Sedge, Fox Sedge, Re -Narrow-leaved Cattail (Typha angustifolia)</li> </ol>	48.1 m to Wetland 100		Type 1 (less than 5% of wetland area). The construction of a solar facility on adjacent lands will not decrease or increase the value of the wetland unit's open water.	which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed	Catchment area determined to be >50% agricultural (cropland, hayfield and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland	The wetland unit is palustrine meaning the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	observed in this wetland unit including Snapping Turtle and Olive- sided Flycatcher. The development of the Loyalist Solar Project is not	Habitat^ (Tree & Shrubs); Woodland Area- Sensitive Bird	Fish spawning or migration/ staging habitat is present in the south portion of the wetland unit



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11 Mud Creek PSW	286.18 Wetland boundaries were delineated during fieldwork and it was found that the wetland occurs within 50 m of the Project Location.	Swamp (SWTM3) Willow Organic Deciduous Thicket Swamp (SWTO2)	seasonal overland drainage towards the watercourse that flows through it. The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	Gc - Swamp Milkweed ( <i>Asclepias incarnata</i> ), Marsh Bedstraw, Sensitive Fern,	Interspersion count of 121 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 11, 104, 107, 103	Type 3 (5-25% is open water, occurring in various sized ponds) The construction of a solar facility on adjacent lands will not decrease or increase the value of the wetland unit's open water.	upstream catchment area of 3417.21 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	unit contains	valuable as a source of groundwater recharge. Since there will be	Rare species were observed within this wetland including avian Species at Risk. The development of the Loyalist Solar Project is not expected to impact rare species.	Generalized Candidate Significant Wildlife Habitat; Waterfowl Nesting Area^.	habitat. This permanent



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26	1.94 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 1.54 ha of the wetland unit occurs within 50 m of the Project Location.	wetland unit includes: Reed Canary Grass Mineral Meadow Marsh (MAMM1- 3)/Willow Mineral Deciduous Thicket	Palustrine The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. *Ne/Ts – Reed Canary Grass, Willow species	43.5 m to Wetland 31	Interspersion count of 94 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 18, 26, 31, 34,		Wetland unit is small in comparison to its upstream catchment area of 3417.21 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland	The wetland unit is palustrine and as such the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	Rare species were observed within this unit and in the general larger study area. The development of the Loyalist	Generalized Candidate Significant Wildlife Habitat; Reptile Hibernaculum^	N/A – no fish spawning or migration/ staging habita is present
31	was found that the wetland does occur within Project Location. 0.70 ha of the wetland unit occurs within 50 m of the Project Location.	robust emergent as the dominant form. The ELC communities present in the wetland unit include: White Cedar Organic Coniferous Swamp (SWCO1-1) Cattail Mineral Meadow Marsh	Palustrine This wetland has a surface water connection with Wetland 34. The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. C* - Eastern White Cedar 2. Re* - Broad-leaved Cattail	11.3 m to unevaluated wetland beyond the Project Location		on adjacent lands will not decrease or increase the value of the wetland unit's	upstream catchment area of 3417.21 ha,	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland	such the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge	were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Generalized Candidate Significant Wildlife Habitat; Reptile Hibernaculum^; Amphibian Breeding Habitat (Woodland Area- Sensitive Bird Breeding Habitat; Red-headed Woodpecker Habitat	Fish spawning or migration/ staging habita is present



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34	5.41 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 1.92 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of Swamp (100%) with coniferous tree species as the dominant form. The ELC community present in the wetland unit includes: White Cedar Organic Coniferous Swamp (SWCO1-1) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	Palustrine This wetland has a surface water connection with Wetland 31. The construction		26 m to Wetland 31		on adjacent lands will not decrease or increase the value of the	Wetland unit is small in comparison to its upstream catchment area of 3417.21 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the wetland unit adjacent to the	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Generalized Candidate Significant Wildlife Habitat; Reptile Hibernaculum^;	Fish spawning or migration/ staging habitat is present
40	4.24 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 2.32 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of Swamp (80%) with deciduous tree species as the dominant form and Marsh (20%). The ELC community present in the portion of the wetland unit within 50 m of the Project Location includes: Mineral Deciduous Swamp (SWDM4) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	Palustrine This wetland has a surface water connection with Wetland 43. The construction of the solar facility will not significantly change the flow	1. H* – Trembling Aspen, Green Ash, Swamp Maple, White Elm C - Eastern White Cedar Ts – Willow species	25.9 m to Wetland 43	value used	on adjacent lands will not decrease or	Wetland unit is small in comparison to its upstream catchment area of 754.56 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland	be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge	were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Bird Breeding Habitat^ (Tree & Shrubs); Woodland Area- Sensitive Bird	



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43	6.92 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 1.73 ha of the wetland unit occurs within 50 m of the Project Location.	wetland unit includes: Mineral Deciduous Swamp (SWDM4) This ELC community	Palustrine This wetland has a surface water connection with Wetland 40. The construction of the solar facility will not significantly	1. H* – Trembling Aspen, Green Ash, Swamp Maple, White Elm C - Eastern White Cedar Ts – Willow species	25.9 m to Wetland 40	Interspersion count of 61 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 40, 43, 49, 54, 118, 61, 62	on adjacent lands will not decrease or increase the	Wetland unit is small in comparison to its upstream catchment area of 754.56 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the wetland unit adjacent to the	N/A – no shoreline is present in the wetland	The wetland unit is palustrine and as such the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Habitat; Colonially Nesting Bird Breeding Habitat <sup>^</sup> (Tree & Shrubs);	N/A – no fish spawning or
44	2.15 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 0.25 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of 100 % Swamp with deciduous tree species as the dominant form. The ELC community present in the wetland unit includes: Green Ash Mineral Deciduous Swamp (SWDM2-2) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	This riverine This riverine wetland likely experiences fluctuating water levels associated with the Salmon River. The construction of the solar facility will not significantly change the flow of water to or from the	1. H* – Green Ash	18.5 m to Wetland 45	value used	on adjacent lands will not decrease or increase the value of the wetland unit's	Wetland unit is small in comparison to its upstream catchment area of 65850.7 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the wetland unit adjacent to the	This swamp contains a permanent watercourse. Shoreline vegetation is treed providing strong shoreline erosion control.	Since there will be no change to the wetland, the unit's ability to recharge	were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Bird Breeding Habitat^ (Tree & Shrubs)	Fish spawning or migration/ staging habitat is present in the Salmon River



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45	13.4 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 0.16 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of 100 % Swamp with deciduous tree species as the dominant form. The ELC community present in the wetland unit includes: Green Ash Mineral Deciduous Swamp (SWDM2-2) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	water levels associated with the Salmon River. The construction of the solar facility will not	1. H* – Green Ash	7.4 m to Wetland 113	Interspersion count of 116 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 33, 41, 44, 45, 112, 113, 114	on adjacent lands will not decrease or	Wetland unit is small in comparison to its upstream catchment area of 65850.7 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the wetland unit	This swamp contains a permanent watercourse. Shoreline vegetation is treed providing strong shoreline erosion control.	The wetland unit is riverine and as such the unit may be a moderate source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	No rare species were observed in this wetland unit. Rare species were observed in the general larger study area. The development of the Lovalist	Colonially Nesting Bird Breeding Habitat^ (Tree & Shrubs)	Fish spawning or migration/ staging habitat is present in the Salmon River
54	wetland does not occur within Project Location. 1.11 ha of the wetland unit	This wetland is comprised of Marsh (31%) with robust emergent species as the dominant form and Swamp (69%). The ELC community present in the portion of the wetland unit within the 50 m setback includes: Cattail Mineral Meadow Marsh (MAMM1-2) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	Palustrine This wetland has a surface water connection with Wetland 49, 61, 62, 118, 119 The construction of the solar facility will not significantly change the flow of water to or from the wetland unit	1. Re*- Broad-leaved Cattail	12.2 m to Wetland 119	Interspersion count of 61 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 40, 43, 49, 54, 118, 61, 62	on adjacent lands will not decrease or increase the	Wetland unit is small in comparison to its upstream catchment area of 754.56 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development		N/A – no fish spawning or migration/ staging habitat is present



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61	delineated during fieldwork and it was found that the wetland does not occur within Project Location. 1.16 ha of the wetland unit occurs within 50 m of the Project Location.	The ELC communities present in the wetland unit include: Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2)	This wetland has a surface water connection with Wetland 49, 54, 62, 118, 119 The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. Ts* - Tall Shrubs 2. H* - Green Ash	12.1 m to Wetland 62	Interspersion count of 61 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 40, 43, 49, 52, 118, 61, 62	on adjacent lands will not decrease or	Wetland unit is small in comparison to its upstream catchment area of 754.56 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development		N/A – no fish spawning or migration/ staging habitat is present
62	fieldwork and it was found that the wetland does not occur within Project Location. 1.04 ha of the wetland unit occurs within 50 m of the Project Location.	Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp	Palustrine This wetland has a surface water connection with Wetland 49, 54, 61, 118, 119 The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. Ts* - Tall Shrubs 2. H* - Green Ash	12.1 m to Wetland 61	value used	on adjacent lands will not decrease or increase the value of the	Wetland unit is small in comparison to its upstream catchment area of 754.56 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development		N/A – no fish spawning or migration/ staging habitat is present



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71	2.61 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 1.32 ha of the wetland unit occurs within 50 m of the Project Location.	Willow Mineral Deciduous Thicket Swamp (SWTM3) This ELC community	a surrace water connection with Wetland 72, 75, 125 The construction of the solar facility will not	1. Ts* - Tall Shrubs	15.3 m to Wetland 72	Interspersion count of 100 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 71, 72, 73, 75, 125	on adjacent lands will not decrease or increase the value of the wetland unit's	Wetland unit is small in comparison to its upstream catchment area of 65850.7 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Generalized Candidate Significant Wildlife Habitat; Colonially Nesting Bird Breeding Habitat^ (Tree & Shrubs); Amphibian Breeding Habitat (Woodland); Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat	Fish spawning or migration/ staging habitat is present
72	was found that the wetland does not occur within Project Location. 1.73 ha of the wetland unit occurs within 50 m of the Project Location. The remainder of the wetland occurs more than 50 m	The ELC communities present in the wetland unit include: Willow Mineral Deciduous Thicket Swamp (SWTM3) Swamp Maple Mineral Deciduous	connection with Wetland 71, 125, 75 The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. Ts* - Tall Shrubs 2. H* - Green Ash, Swamp Maple	15.3 m to Wetland 71	value used	on adjacent lands will not decrease or increase the value of the wetland unit's	catchment area of 65850.7 ha,	Catchment area determined to be >50% forested or other natural vegetation. The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland	be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge	were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Woodland Area- Sensitive Bird Breeding Habitat;	or migration/ staging habitat is present



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73	1.73 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 0.33 ha of the wetland unit occurs within 50 m of the Project Location.	wetland unit includes: Green Ash Mineral Deciduous Swamp (SWDM2-2)	Palustrine The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. H* - Green Ash, Swamp Maple	12.2 m to Wetland 125	Interspersion count of 100 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 71, 72, 73, 75, 125	on adjacent lands will not decrease or	Wetland unit is small in comparison to its upstream catchment area of 65850.7 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% forested or other natural vegetation. The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Generalized Candidate Significant Wildlife Habitat; Amphibian Breeding Habitat (Woodland); Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat.	N/A – no fish spawning or migration/ staging habitat is present
75	6.28 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 0.99 ha of the wetland unit occurs within 50 m of the Project Location.	dominant form. The ELC community present in the wetland unit includes: Willow Mineral Deciduous Thicket Swamp (SWTM3) This ELC community	Palustrine This wetland has a surface water connection with Wetland 72, 71, 125 The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.		19.7 m to Wetland 128	Interspersion count of 100 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 71, 72, 73, 75, 125	on adjacent lands will not decrease or increase the value of the watland unit's	Wetland unit is small in comparison to its upstream catchment area of 65850.7 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland	wetland, the unit's ability to recharge	were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Generalized Candidate Significant Wildlife Habitat; Amphibian Breeding Habitat (Woodland); Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat.	staging habitat is present



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77	21.71 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 2.51 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of 100 % Swamp with tall shrub or deciduous tree species as the dominant form. The ELC community present in the wetland unit includes: Green Ash Mineral Deciduous Swamp (SWDM2-2) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	Palustrine The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. H* - Green Ash, Trembling Aspen, Swamp Maple	12.2 m to Wetland 85	•	on adjacent lands will not decrease or increase the	Wetland unit is small in comparison to its upstream catchment area of 1924.83 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland		Rare species were observed in this wetland unit and within the general larger study area.	Generalized Candidate Significant Wildlife Habitat; Colonially Nesting Bird Breeding Habitat^ (Tree & Shrubs); Amphibian Breeding Habitat (Woodland); Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat	N/A – no fish spawning or migration/ staging habitat is present
78	3.11 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 2.26 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of 100 % Swamp with tall shrub or deciduous tree species as the dominant form. The ELC community present in the wetland unit includes: Green Ash Mineral Deciduous Swamp (SWDM2-2) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	Palustrine The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. H* - Green Ash, Trembling Aspen, Swamp Maple	12.2 m to Wetland 83		on adjacent lands will not decrease or increase the value of the	Wetland unit is small in comparison to its upstream catchment area of 1924.83 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland		Rare species were observed in this wetland unit and within the general larger study area.		N/A – no fish spawning or migration/ staging habitat is present



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83	1.19 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 0.54 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of 100 % Swamp with tall shrub or deciduous tree species as the dominant form. The ELC community present in the wetland unit includes: Green Ash Mineral Deciduous Swamp (SWDM2-2) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	Palustrine The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. H* - Green Ash, Trembling Aspen, Swamp Maple	12.2 m to Wetland 78		on adjacent lands will not decrease or increase the	of 1924.83 ha,	Catchment area determined to be >50% forested or other natural vegetation. The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland	The wetland unit is palustrine and as such the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	of the Loyalist	Generalized Candidate Significant Wildlife Habitat; Amphibian Breeding Habitat (Woodland); Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat	N/A – no fish spawning or migration/ staging habitat is present
85	92.2 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 5.06 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of 100 % Swamp with tall shrub or deciduous tree species as the dominant form. The ELC community present in the wetland unit includes: Green Ash Mineral Deciduous Swamp (SWDM2-2) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	Palustrine The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. H* - Green Ash, Swamp Maple, Trembling Aspen	7.3 m to Wetland 121	Interspersion count of 100 intersections. The interspersion value used was for wetlands in the entire 1924.83 ha catchment this wetland unit is part of, which form a wetland complex. This interspersion value will persist with the development of the Loyalist Solar Project.	on adjacent lands will not decrease or	Wetland unit is small in comparison to its upstream catchment area of 1924.83 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% forested or other natural vegetation. The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Generalized Candidate Significant Wildlife Habitat; Colonially Nesting Bird Breeding Habitat^ (Tree & Shrubs); Amphibian Breeding Habitat (Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat	is present



Wetland ID Number	Wetland Size (ha)	Wetland Type	Site Type	Vegetation Communities (* denotes dominant vegetation form)	Proximity to Other Wetlands	Interspersion	Open Water Type	Flood Attenuation	Water Quality Improvement	Shoreline Erosion Control	Groundwater Recharge	Species Rarity	Significant Features and Habitat	Fish Habitat
86		This wetland is comprised of Swamp (59%) with deciduous and coniferous tree species as the dominant form and Marsh (41%) with narrow-leaved emergent species as the dominant form. The ELC communities present in the wetland unit include: Black Ash Mineral Deciduous Swamp (SWDM2-1) Reed Canary Grass Mineral Meadow Marsh (MAMM1-3) These ELC communities are considered common in Ontario based on the SRank designated by the NHIC.	Riverine This riverine wetland likely experiences fluctuating water levels associated with the Pennell's Creek. The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	<ol> <li>Ne* - Reed Canary Grass Be - Northern Water- plantain (<i>Alisma triviale</i>),</li> <li>H* - Black Ash, Green Ash Ne - Reed Canary Grass Gc -Slender Stinging Nettle (<i>Urtica dioica</i> ssp. gracilis), Smartweed species</li> </ol>	9.5 m to Wetland 117	Interspersion count of 127 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 88, 86, 92, 117	wetland unit's	upstream catchment area of 3340.35 ha,	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	This swamp contains a permanent watercourse. Shoreline vegetation is treed providing strong shoreline erosion control.	riverine meaning the unit may be a moderate source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge	No rare species were observed in this wetland unit. Rare species were observed in the general larger study area. The development of the Loyalist Solar Project is not expected to impact rare species.	Generalized Candidate Significant Wildlife Habitat; Colonially Nesting Bird Breeding Habitat^ (Tree & Shrubs); Amphibian Breeding Habitat (Woodland); Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat	present in this wetland that may provide spawning and migration/ staging habitat. This permanent watercourse is located within
88 Pennell's Creek PSW	was found that the wetland does not occur within Project Location. 0.74 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of Swamp (78%) with deciduous and coniferous tree species as the dominant form and Marsh (20%) with narrow-leaved emergent species as the dominant form. The individual units within this wetland make up the <b>Pennell's</b> <b>Creek PSW</b> . The ELC communities present in the wetland unit include: Green Ash Mineral Deciduous Swamp (SWIDM2 2)	the Pennell's Creek. The construction of the solar facility will not significantly change the flow of water to or from the	plantain	39.7 m to unevaluated wetland beyond 50 m of the Project Location	Interspersion count of 127 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 88, 86, 92, 117	wetiand unit s	upstream catchment area of 3340.35 ha,	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	This swamp contains a permanent watercourse. Shoreline vegetation is treed providing strong shoreline erosion control.	of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge	were observed in this wetland unit. Rare species were observed in the general larger study area. The development of the Loyalist	Generalized Candidate Significant Wildlife Habitat; Colonially Nesting Bird Breeding Habitat (Trees & Shrubs^); Waterfowl Nesting Area.	wetland that may provide spawning and migration/ staging habitat. This permanent



Wetland ID Number	Wetland Size (ha)	Wetland Type	Site Type	Vegetation Communities (* denotes dominant vegetation form)	Proximity to Other Wetlands	Interspersion	Open Water Type	Flood Attenuation	Water Quality Improvement	Shoreline Erosion Control	Groundwater Recharge	Species Rarity	Significant Features and Habitat	Fish Habitat
94 Biddy's Lake PSW	was found that the wetland does not occur within Project Location. 1.90 ha of the wetland unit occurs within 50 m of the Project Location.	within this wetland make up the <b>Biddy's Lake PSW</b> . The ELC communities present in the wetland unit include: Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral	and 126 The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. Ts* - Tall Shrubs 2. H* - Green Ash, Swamp	12.2 m to Wetland 126	Interspersion count of 261 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 77, 78, 83, 85, 94, 109, 122, 123, 126	on adjacent lands will not decrease or	Wetland unit is small in comparison to its upstream catchment area of 1924.83 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Generalized Candidate Significant Wildlife Habitat; Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat; Amphibian Breeding Habitat (Woodland).	is present
96	40.84 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 1.13 ha of the wetland unit occurs within the Project Location.	This wetland is comprised of Swamp (52%) with tall shrub or deciduous tree species as the dominant form and Marsh (39%). The ELC community present within the portion of the wetland unit in 50 m of the Project Location includes: Cattail Mineral Meadow Marsh (MAMM1-2) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	Riverine This riverine wetland likely experiences fluctuating water levels associated with	H – Green Ash, Swamp Maple	16.3 m to unevaluated wetland beyond 50 m of the Project Location	intersections. The	The construction of a solar facility on adjacent lands will not decrease or increase the value of the	Wetland unit is small in comparison to its upstream catchment area of 1924.83 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Generalized Candidate Significant Wildlife Habitat; Amphibian Breeding Habitat (Woodland); Waterfowl Nesting Area; Wood Thrush Habitat; Woodland Area- Sensitive Bird Breeding Habitat	Fish spawning or migration/ staging habitat is present in the Salmon River



Wetland ID Number	Wetland Size (ha)	Wetland Type	Site Type	Vegetation Communities (* denotes dominant vegetation form)	Proximity to Other Wetlands	Interspersion	Open Water Type	Flood Attenuation	Water Quality Improvement	Shoreline Erosion Control	Groundwater Recharge	Species Rarity	Significant Features and Habitat	Fish Habitat
102	0.79 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 0.51 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of 100% Swamp with tall shrub species as the dominant form. The ELC community present in the wetland unit includes: Willow Mineral Deciduous Thicket Swamp (SWTM3) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	may have seasonal overland flow connection with Wetland 11. The construction of the solar facility will not significantly	1.*Ts – Willow species	Wetland 4	Interspersion count of 121 intersections. The interspersion value used was for wetlands in the entire 3417.21 ha catchment this wetland unit is part of, which form a wetland complex. This interspersion value will persist with the development of the Loyalist Solar Project.	Type 1 (less than 5% of wetland area). The construction of a solar facility on adjacent lands will not decrease or increase the value of the wetland unit's open water.		Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland	The wetland unit is palustrine and as such the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	Rare species were observed within this unit and in the general larger study area. The development of the Loyalist	Candidate Significant Wildlife Habitat; Waterfowl Nesting Habitat.	migration, staging habi
103	Wetland boundaries were delineated during	This wetland is comprised of Swamp (70.46%) with deciduous tree species as the dominant form and Marsh (29.54%) with robust/ narrow-leaved emergent species as the dominant forms. The ELC communities present in the wetland unit includes: Green Ash Mineral Deciduous Swamp (SWDM2-2) Cattail Graminoid Organic Meadow Marsh (MAMO1-2) Bedrock Meadow Marsh (MAMR3) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	Palustrine This wetland has intermittent inflow but no observed outflow. The construction of the solar facility will not significantly change the inputs of water to or from the wetland unit.	<ol> <li>H* - Green Ash, White Elm, Trembling Aspen, Swamp White Oak (<i>Quercus bicolor</i>) Ts - Willow species Ls - Red-osier Dogwood C - Eastern White Cedar Ne - Bebb's Sedge, Lake-bank Sedge, Tussock Sedge, Tuckerman's Sedge (<i>Carex tuckermanii</i>), Northeastern Sedge, Porcupine Sedge, Canada Mannagrass, Reed Canary Grass</li> <li>Gc - Marsh Bedstraw, Marsh Horsetail, Common Boneset, Swamp Milkweed, Harlequin Blue Flag</li> <li>Re* - Narrow-leaved Cattail, Harlequin Blue Flag Ne – Tussock Sedge, Reed Canary Grass</li> <li>H – Green Ash, White Elm Ts – Willow species</li> <li>Ne* - Tussock Sedge, Reed Canary Grass</li> </ol>	127 m to Wetland 104	Interspersion count of 121 intersections. The	wetland area). The construction of a solar facility on adjacent lands will not decrease or increase the value of the	Wetland unit is small in comparison to its upstream catchment area of 3417.21 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	(cropland, nayfield, and pasture). The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland	The wetland unit is palustrine, as such the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	No rare species were observed in this wetland unit. Rare species were observed in the general larger study area. The development of the Loyalist Solar Project is not expected to impact rare species.	Generalized Candidate Significant Wildlife Habitat; Waterfowl Nesting Habitat.	N/A – no fis spawning c migration, staging habi is present

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Wetland ID Number	Wetland Size (ha)	Wetland Type	Site Type	Vegetation Communities I (* denotes dominant vegetation form)	Proximity to Other Wetlands	Interspersion	Open Water Type	Flood Attenuation	Water Quality Improvement	Shoreline Erosion Control	Groundwater Recharge	Species Rarity	Significant Features and Habitat	Fish Habitat
104 Mud Creek PSW	Wetland boundaries were delineated during fieldwork and it was found that the wetland does occur within Project Location. 2.63 ha of the wetland unit occurs within the Project Location.	Willow Organic	Palustrine This palustrine wetland likely experiences seasonal overland drainage towards the watercourse that flows through it. The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	Ne – Reed Canary Grass Gc - Swamp Milkweed (Asclepias incarnata), Marsh Bedstraw, , Sensitive Fern,	8.2 m to Wetland 11	Interspersion count of 121 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 11, 104, 107, 103		upstream catchment area of 3417.21 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed	adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not		The wetland unit is palustrine meaning the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	,	Colonially Nesting Bird Breeding Habitat (Trees & Shrubs^); Waterfowl Nesting Habitat; Turtle Overwintering Habitat^; Turtle Nesting Area^; Amphibian Breeding Habitat (Woodland); Terrestrial Crayfish^; Large Yellow Pond Lily Habitat^.	A permanent watercourse (Mud Creek) i present in thi wetland that may provide spawning and migration/ staging habitat. This permanent watercourse i located outside of the 50 m setback and will not b impacted by the development of the Loyalis Solar Project.



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109	Tieldwork and it	shrub or deciduous tree species as the dominant form. The ELC communities present in the wetland unit include:	and 126	1. H* - Green Ash, Swamp Maple	12.3 m to Wetland 94	•	on adjacent lands will not decrease or increase the	Wetland unit is small in comparison to its upstream catchment area of 1924.83 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% forested or other natural vegetation. The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Generalized Candidate Significant Wildlife Habitat; Amphibian Breeding Habitat (Woodland); Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat.	N/A – no fish spawning or migration/ staging habita is present
117	0.08 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within the Project Location. 0.06 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of Marsh (100%) with narrow- leaved emergent species as the dominant form. The ELC community present in the wetland unit includes: Reed Canary Grass Mineral Meadow Marsh (MAMM1-3) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	of the solar facility will not	1. Ne* - Reed Canary Grass Be - Northern Water- plantain, Smartweed species	9.5 m to Wetland 86	Interspersion count of 127 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 88, 86, 92, 117	wettand unit s	Wetland unit is small in comparison to its upstream catchment area of 3340.35 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	This swamp contains a permanent watercourse. Shoreline vegetation is treed providing strong shoreline erosion control.	of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge	were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Generalized Candidate Significant Wildlife Habitat; Amphibian Breeding Habitat (Woodland); Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat.	A permanent watercourse present in thi wetland that may provide spawning and migration/ staging habitat. This permanent watercourse located withi the Project Location.



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118	0.83 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 0.83 ha of the wetland unit occurs within 50 m of the Project Location.	snrub species as the dominant form. The ELC community present in the wetland unit includes: Willow Mineral Deciduous Thicket Swamp (SWTM3) This ELC community is considered	Palustrine This wetland has a surface water connection with Wetland 49, 54, 61, 62, 119 The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. Ts* - Tall Shrubs	12.2 m to Wetland 54	Interspersion count of 61 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 40, 43, 49, 52, 118, 61, 62	Type 1 (less than 5% of wetland area). The construction of a solar facility on adjacent lands will not decrease or increase the value of the wetland unit's open water.	of 754.56 ha, which was	The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland	The wetland unit is palustrine and as such the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	were observed in this wetland unit. Rare species were observed in the general larger study area. The development of the Loyalist	Generalized Candidate Significant Wildlife Habitat	N/A – no fish spawning or migration/ staging habita is present
122	0.54 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 0.54 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of 100 % Swamp with tall shrub or deciduous tree species as the dominant form. The ELC community present in the wetland unit includes: Green Ash Mineral Deciduous Swamp (SWDM2-2) This ELC community is considered common in Ontario based on the SRank designated by the NHIC.	Palustrine The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. H* - Green Ash, Trembling Aspen, Swamp Maple	12.2 m to Wetland 123		on adjacent lands will not decrease or increase the value of the	of 1924.83 ha,	The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland		observed in this wetland unit and within the general larger study area. The development		N/A – no fish



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123	1.57 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within Project Location. 1.57 ha of the wetland unit occurs within 50 m of the Project Location.	includes: Green Ash Mineral Deciduous Swamp (SWDM2-2) This ELC community	of the solar facility will not significantly change the flow of water to or from the	1. H* - Green Ash, Trembling Aspen, Swamp Maple	12.2 to Wetland 122	The interspersion	on adjacent lands will not decrease or increase the	Wetland unit is small in comparison to its upstream catchment area of 1924.83 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland	such the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's	Rare species were observed in this wetland unit and within the general larger study area.	Habitat; Amphibian Breeding Habitat (Woodland); Woodland Area- Sensitive Bird	N/A – no fish spawning or migration/ staging habitat is present
125	delineated during fieldwork and it was found that the wetland does not occur within Project Location. 2.19 ha of the wetland unit occurs within 50 m of the Project Location.	The ELC communities present in the wetland unit include: Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2) These ELC	connection with Wetland 71, 75 The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. Ts* - Tall Shrubs 2. H* - Green Ash, Swamp Maple	12.2 m to Wetland 73	Interspersion count of 100 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 71, 72, 73, 75, 125	on adjacent lands will not decrease or increase the value of the watland unit's	Wetland unit is small in comparison to its upstream catchment area of 65850.7 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Woodland Area- Sensitive Bird Breeding Habitat;	



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126	Tieldwork and it	shrub or deciduous tree species as the dominant form. The ELC communities present in the wetland unit include:	and 94 The construction of the solar facility will not	1. H* - Green Ash, Swamp Maple	12.2 m to Wetland 94	Interspersion count of 261 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 77, 78, 83, 85, 94, 109, 122, 123, 126	wetland area). The construction of a solar facility on adjacent lands will not decrease or increase the	of 1924.83 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed	vegetation. The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Amphibian Breeding Habitat (Woodland); Woodland Area- Sensitive Bird Breeding Habitat; Wood Thrush Habitat.	N/A – no fish spawning or migration/ staging habita is present
127	0.86 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within the Project Location. 0.27 ha of the wetland unit occurs within the Project Location.	This wetland is comprised of Swamp (56%) with deciduous tree and tall/low shrub species as the dominant form and Marsh (44%) with narrow-leaved emergent species as the dominant form. The ELC communities present in the wetland unit include: Reed Canary Grass Graminoid Organic Meadow Marsh (MAMO1-3) Organic Deciduous Thicket Swamp (SWTO5) These ELC communities are considered common in Ontario based on the SRank designated by the NHIC.	Riverine This riverine wetland likely experiences fluctuating water levels associated with the Salmon River. The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	<ol> <li>Ne* - Reed Canary Grass, Lake-bank Sedge, Hop Sedge, Tussock Sedge (<i>Carex stricta</i>) Fox Sedge H - Green Ash, Swamp Maple</li> <li>Ls - White Meadowsweet, Red-osier Dogwood</li> <li>Ts - Willow species Re - Harlequin Blue Flag Gc - Marsh Fern, Marsh Horsetail, Water Loosestrife, Swamp Milkweed, Spotted-joe</li> <li>Pyeweed, Sensitive Fern, Canada Anemone</li> <li>H* - Green Ash, Swamp Maple</li> <li>Ls – Red-osier Dogwood</li> <li>Ne - Reed Canary Grass, Lake-bank Sedge, Hop Sedge, Tussock Sedge</li> <li>(<i>Carex stricta</i>) Fox Sedge Re - Harlequin Blue Flag Gc - Marsh Fern, Marsh Horsetail, Water Loosestrife, Swamp Milkweed, Spotted-joe</li> <li>Pyeweed, Sensitive Fern, Canada Anemone</li> </ol>	2 m to an unevaluated wetland beyond Project Location	Interspersion count of 100 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 96 and 127.	Type 1 (less than 5% of wetland area). The construction of a solar facility on adjacent lands will not decrease or increase the value of the wetland unit's open water.	Wetland unit is small in comparison to its upstream catchment area of 3340.35 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland	The wetland unit is palustrine meaning the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	No rare species were observed in this wetland unit. Rare species were observed in the general larger study area. The development of the Loyalist	Generalized Candidate Significant Wildlife Habitat; Amphibian Breeding Habitat (Woodland Area- Sensitive Bird Breeding Habitat; Waterfowl Nesting Area; Wood Thrush Habitat.	N/A – no fish spawning or migration/ staging habita is present



Wetland ID Number	Wetland Size (ha)	Wetland Type	Site Type	Vegetation Communities (* denotes dominant vegetation form)	 Interspersion	Open Water Type	Flood Attenuation	Water Quality Improvement	Shoreline Erosion Control	Groundwater Recharge	Species Rarity	Significant Features and Habitat	Fish Habitat
18 (within the Muc Creek PSW area)	delineated during fieldwork and it was found that the wetland does occur within the Project Location. 0.81 ha of the wetland unit occurs within the Project Location.	wetland unit include: Swamp Maple Organic Deciduous Swamp (SWDO 2-3) White Cedar Organic Coniferous Swamp (SWCO1-1)	Palustrine This wetland appears to have seasonal overland flow connection to wetland 21. The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	Canary Grass, Canada Mannagrass Re - Harlequin Blue Flag Gc - Wild Sarsaparilla, Marsh Fern, Canada Clearweed ( <i>Pilea pumila</i> ) 3 *H – Trembling Aspen	ine	Type 1 (less than 5% is open water) The construction of a solar facility on adjacent lands will not decrease or increase the value of the wetland unit's open water.	of 3417.21 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed	and pasture). The quality of water entering the wetland unit	N/A – no shoreline is present in the wetland	The wetland unit is palustrine meaning the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	this wetland unit. Rare species were observed in the general larger study area.	Stopover & Staging	N/A – no fish spawning or migration/ staging habitat is present



Wetland ID Number	Wetland Size (ha)	Wetland Type	Site Type	Vegetation Communities (* denotes dominant vegetation form)	Proximity to Other Wetlands	Interspersion	Open Water Type	Flood Attenuation	Water Quality Improvement	Shoreline Erosion Control	Groundwater Recharge	Species Rarity	Significant Features and Habitat	Fish Habitat
49	3.38 Wetland boundaries were delineated during fieldwork and it was found that the wetland does occur within Project Location. 0.25 ha of the	and Swamp (12%). The ELC community present in the portion of wetland unit within the	Palustrine This wetland has a surface water connection with Wetland 54, 61, 62, 118, 119 The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1. Re*- Broad-leaved Cattail	274.4 m to Wetland 54	Interspersion count of 61 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 40, 43, 49, 52, 118, 61, 62	on adjacent lands will not decrease or	Wetland unit is small in comparison to its upstream catchment area of 754.56 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	Butterfly Species of Conservation Concern	N/A – no fish spawning or migration/ staging habita is present
92	1.9 Wetland boundaries were delineated during fieldwork and it was found that the wetland does not occur within the Project Location. 1.9 ha of the wetland unit occurs within 50 m of the Project Location.	This wetland is comprised of Swamp (78%) with deciduous tree and tall/low shrub species as the dominant form and Marsh 22%) with narrow-leaved emergent species as the dominant form. The ELC communities present in the wetland unit include: Reed Canary Grass Graminoid Organic Meadow Marsh (MAMO1-3) Organic Deciduous Thicket Swamp (SWTO5) These ELC communities are considered common in Ontario based on the SRank designated by the NHIC.	Palustrine This wetland likely has seasonal overland flow connection with Wetland 88 The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	<ol> <li>Ne* - Reed Canary Grass Be - Northern Water- plantain</li> <li>H* - Black Ash, Green Ash Ne - Reed Canary Grass Gc -Slender Stinging Nettle, Smartweed species</li> </ol>	Wetland 130	Interspersion count of 127 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 88, 86, 92, 117	of a solar facility on adjacent lands will not decrease or increase the value of the wortland unit's	upstream catchment area of 3340.35 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland	The wetland unit is palustrine, meaning the unit may be valuable as a source of groundwater recharge. Since there will be no change to the wetland, the unit's ability to recharge groundwater will remain the same.	No rare species were observed in this wetland unit. Rare species were observed in the general larger study area. The development of the Loyalist	Generalized Candidate Significant Wildlife Habitat; Amphibian Breeding Habitat^ (Woodland); Colonially Nesting Bird Breeding Habitat^ (Tree/Shrubs) Waterfowl Nesting Area.	N/A – no fish spawning or migration/



Wetland ID Number	Wetland Size (ha)	Wetland Type	Site Type	Vegetation Communities (* denotes dominant vegetation form)	Proximity to Other Wetlands	Interspersion	Open Water Type	Flood Attenuation	Water Quality Improvement	Shoreline Erosion Control	Groundwater Recharge	Species Rarity	Significant Features and Habitat	Fish Habitat
114	fieldwork and it was found that the wetland does occur within Project Location. 0.24 ha of the wetland unit occurs within the Project Location.	Marsh (14%) with robust emergent as the dominant form. The ELC communities present in the wetland unit include: Reed Canary Grass Organic Meadow Marsh (MAMO1-3) Willow Organic	Palustrine This wetland has a seasonal surface water connection with Wetland 115. The construction of the solar facility will not significantly change the flow of water to or from the wetland unit.	1.Ne*- Reed Canary Grass, Fox Sedge, Re-Harlequin Blue Flag, Narrow-leaved Cattail, Gc -Canada Anemone, Marsh Marigold,	21.6 m to Wetland 115	Interspersion count of 116 intersections. The interspersion value used was for wetlands in a wetland complex made up of Wetland 33, 41, 44, 45, 112, 113, 114	on adjacent lands will not decrease or	Wetland unit is small in comparison to its upstream catchment area of 65850.7 ha, which was determined using topographic and drainage mapping. Since no part of the wetland unit will be removed the unit will still attenuate flood peaks.	Catchment area determined to be >50% agricultural (cropland, hayfield, and pasture). The quality of water entering the wetland unit adjacent to the Project Location should remain unchanged or improved with the development of a solar facility. The solar facility will not result in the input of chemicals into adjacent lands.	N/A – no shoreline is present in the wetland		were observed in this wetland unit. Rare species were observed in the general larger study area. The development	None	N/A – no fish spawning or migration/ staging habitat is present

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## 8.2 Woodlands

For this evaluation of significance, the definition of woodlands is as defined on May 1, 2016, amendments to *Ontario Regulation 359/09*. As such, the estimate of woodland cover within the Township of Stone Mills is 24.38% (Roger Hogan Stone Mills Township *pers. comm.* August 10, 2016). Lennox and Addington County has not set out criteria to determine the significance of woodlands (Lennox & Addington County 2016). The natural cover and target forest area outlined in the *MNRF's Natural Heritage Assessment Guide for Renewable Energy Projects* (2012) criteria for the Madoc ecodistrict (6E-9) is 69% and 42.7 %, respectively. Criteria set out by the Township Stone Mills is more stringent and locally relevant than those set out by MNRF, as such Stone Mills Township criteria will be considered for the purpose of this report.

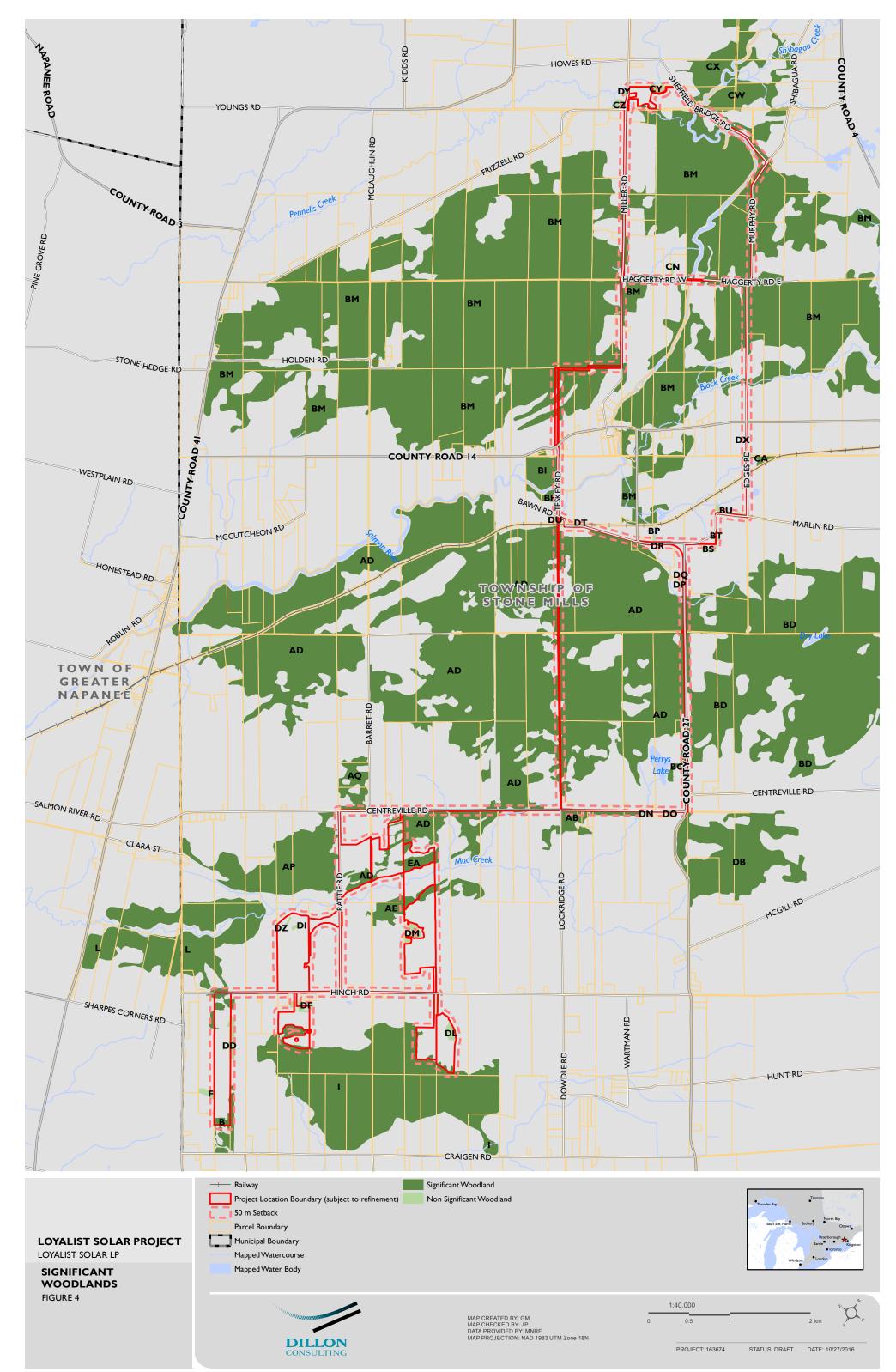
In order for woodland to be considered significant, it must be greater than or equal to 20 ha in size (outside the settlement areas). If woodland fails to meet that criterion, it was considered significant if it meets any one of the following criteria:

- a) Interior habitat of greater than or equal to 2 ha, with a 100 m interior buffer on all sides
- b) Proximity to other woodlands (within 30 m of another significant woodland or habitat) and greater than 4 ha in size
- c) Overlap with other natural heritage features (provincially significant wetlands, ANSI's, etc.) and is greater than 4 ha in size
- d) Within 50 m of a sensitive groundwater discharge, watercourse or fish habitat and is greater than 2 ha in size, or
- e) Contain certain representative native woodland species and greater than 4 ha in size

The criteria being considered are included in **Table 6**. The criteria responsible for the evaluation of significance are identified by bold text. Significant woodlands are identified by ID numbers as per **Figure 4**.

Note that following the completion of the *NHA Site Investigation Report*, the Project Location was refined for the purposes of the *NHA Evaluation of Significance Report*. As such, Candidate Woodlands identified in the *NHA Site Investigation Report* that are no longer within the Project Location or 50 m setback have been omitted from **Table 6** (i.e., BF, BG, CI, DS).





p	Size Criterion			Ecological Fu	nction Criteria			<b>Evaluation of</b>	Significance
Woodland ID	Woodland Size (ha) (≥20 ha)	Woodland Interior (ha) (2 ha)	Proximity to Other Significant Woodlands or Habitats ( Within 30 m) ^ (4 ha)	Linkages (4 ha)	Water Protection (2 ha)	Woodland Diversity Representation (4 ha)	Woodland Uncommon Characteristics (0.5 – 2 ha)	Significant	Not Significant
AB	14.16	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland AB is small with no interior habitat. Woodland AB is not between two other significant features within 120 m.	Woodland does not contain any notable surface water and is not identified as a source water protection area.	Identified as Dry-Fresh Sugar Maple – Black Cherry Deciduous Forest (FODM5-7). Dominant canopy species include Sugar Maple ( <i>Acer saccharum</i> ) and Black Cherry ( <i>Prunus serotina</i> ).	No uncommon characteristics.	~	
AD	1131.19	463.82	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> <li>Waterfowl Stopover and Staging Area (Aquatic)</li> <li>Reptile Hibernaculum</li> <li>Colonially Nesting Bird Breeding Habitat (Tree/Shrubs)*</li> <li>Alvar</li> <li>Waterfowl Nesting Area</li> <li>Amphibian Breeding Habitat (Woodland)</li> <li>Woodland Area-Sensitive Bird Breeding Habitat</li> <li>Common Nighthawk Habitat</li> <li>Red-headed Woodpecker Habitat</li> </ul>	Woodland AD is large and provides direct connectivity to multiple woodlands within the Lennox and Addington County as well as Mud Creek Provincially Significant Swamp (PSW) and Roblin Swamp.	Woodland AD contains unevaluated wetlands. Woodland AD contains Dillon delineated wetlands. Woodland AD is within 50m of Mud Creek PSW, Perry's Lake, Salmon River Tributary and Roblin Swamp.	Identified as: Fresh-Moist White Cedar Coniferous Forest Type (FOCM4-1); Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5); Dry-Fresh White Cedar Coniferous Forest Ecosite (FOCM2-2); Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type (FOCS3-1); Swamp Maple Mineral Deciduous Swamp (SWDM3-3); Poplar Mineral Deciduous Swamp (SWDM4-5); White Cedar Organic Coniferous Swamp (SWCO1-1); Swamp Maple Organic Deciduous Swamp (SWDO2-3); Mineral Deciduous Swamp Ecosite (SWDM4); Fresh-moist Green Ash- Hardwood Lowland Deciduous Forest (FODM7-2); Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type (FODM5-4); Dry Sugar Maple-White Ash Deciduous Forest (FODM5-8); Green Ash Mineral Deciduous Swamp (SWDM2-2); Dry-Fresh White Ash-Hardwood Deciduous Forest Type (FODM4-2); Dry-Fresh Ironwood Deciduous Forest Type (FODM4-2); Dry-Fresh White Cedar-Hardwood Mixed Forest Type (FOMM4-3). Dry-fresh Red Cedar Coniferous Forest Type (FOMM4-3). Dry-fresh Red Cedar Coniferous Forest Type (FOMM4-3). Dry-fresh Red Cedar Coniferous Forest Type (FOCM2-1). Dominant canopy species include Eastern White Cedar <i>(Thuja occidentalis</i> ) and Sugar Maple.	No uncommon characteristics	✓	
AE	21.59	0.05	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> <li>Reptile Hibernaculum</li> <li>Colonially Nesting Bird Breeding Habitat (Tree/Shrubs)</li> <li>Waterfowl Nesting Area</li> <li>Amphibian Breeding Habitat (Woodland)</li> </ul>	Woodland AE is not between two other significant features within 120m.	Woodland AE contains unevaluated wetlands. Woodland AE is within 50 m of Mud Creek PSW.	Identified as: Swamp Maple Organic Deciduous Swamp (SWDO2-3); Fresh- moist Oak-Maple-Hickory Deciduous Forest (FODM9); Green Ash Mineral Deciduous Swamp (SWDM2-2); Fresh-Moist White Cedar Coniferous Forest Type (FOCM4-1). Dominant canopy species include Eastern White Cedar and Freeman's Maple ( <i>Acer x freemannii</i> ).	No uncommon characteristics	~	
АР	83.92	34.25	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> <li>Reptile Hibernaculum</li> <li>Colonially Nesting Bird Breeding Habitat (Tree/Shrubs)</li> <li>Waterfowl Nesting Area</li> </ul>	Woodland AP is large and provides direct connectivity to other woodlands to west within the Lennox & Addington County as well as the Mud Creek PSW.	Woodland AP is within 50 m of Mud Creek PSW.	Identified as Dry-Fresh Poplar Mixed Forest Type (FOMM5-2). Dominant canopy species include Trembling Aspen ( <i>Populus tremuloides</i> ), with Eastern Red Cedar ( <i>Juniperus virginiana</i> ), American Elm and Sugar Maple.	No uncommon characteristics	¥	

## Table 6: Evaluation of Woodlands Within the Project Location and 50 m Setback



P	Size Criterion			Ecological Fu	nction Criteria			<b>Evaluation of</b>	Significance
Woodland ID	Woodland Size (ha) (≥20 ha)	Woodland Interior (ha) (2 ha)	Proximity to Other Significant Woodlands or Habitats ( Within 30 m) ^ (4 ha)	Linkages (4 ha)	Water Protection (2 ha)	Woodland Diversity Representation (4 ha)	Woodland Uncommon Characteristics (0.5 – 2 ha)	Significant	Not Significant
AQ	15.31	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland AQ is located within 120 m of Woodland AP and AD.	Woodland does not contain any notable surface water and is not identified as a source water protection area.	Identified as Dry-Fresh Poplar Mixed Forest Type (FOMM5-2). Dominant canopy species include Trembling Aspen, with Eastern Red Cedar, American Elm and Sugar Maple.	No uncommon characteristics.	V	
В	10.38	0	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> </ul>	Woodland B is not between two other significant features within 120 m.	Woodland B does not contain any notable surface water and is not identified as a source water protection area. Woodland B contains Dillon delineated wetlands.	Identified as: Dry-Fresh Oak-Hardwood Non-calcareous Shallow Deciduous Forest Ecosite (FODR2); Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type (FOCS3-1); Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5). Dominant canopy species include Eastern Red Cedar, Eastern White Cedar and Bur Oak ( <i>Quercus macrocarpa</i> ).	No uncommon characteristics.	v	
BC	2.34	0	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> </ul>	Woodland BC is between two other significant features (Woodland BD & AD) within 120 m.	Woodland BC is adjacent to Perry's Lake.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash ( <i>Fraxinus</i> <i>pennsylvanica</i> ).	No uncommon characteristics	V	
BD	539.45	247.84	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> </ul>	Woodland BD is not between two other significant features within 120 m.	Woodland BD contains unevaluated wetlands. Woodland BD contains Dry Lake.	Identified as : White Cedar Organic Coniferous Swamp (SWCO1-1); Fresh-Moist White Cedar Coniferous Forest Type (FOCM4-1); Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5); Mineral Deciduous Swamp Ecosite (SWDM4). Dominant canopy species include Eastern White Cedar and Sugar Maple.	No uncommon characteristics	¥	
ВН	3.88	0	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> <li>Reptile Hibernaculum</li> <li>Colonially Nesting Bird Breeding Habitat (Tree/Shrubs)</li> </ul>	Woodland BH provides direct connectivity to multiple Woodlands with the Lennox and Addington Country.	Woodland BH contains unevaluated wetlands. Woodland BH is within 50 m of Salmon River.	Identified as Green Ash Mineral Deciduous Swamp (SWDM2-2). Dominant canopy species include Green Ash.	No uncommon characteristics	~	
BI	15.81	0	<ul> <li>Colonially Nesting Bird Breeding Habitat (Tree &amp; Shrubs)</li> </ul>	Woodland BI provides direct connectivity to multiple Woodlands with the Lennox and Addington Country.	Woodland BI contains unevaluated wetlands. Woodland BI is within 50 m of Salmon River.	Identified as Green Ash Mineral Deciduous Swamp (SWDM2-2). Dominant canopy species include Green Ash.	No uncommon characteristics	¥	



p	Size Criterion			Ecological Fu	Inction Criteria			<b>Evaluation of</b>	Significance
Woodland ID	Woodland Size (ha) (≥20 ha)	Woodland Interior (ha) (2 ha)	Proximity to Other Significant Woodlands or Habitats ( Within 30 m) ^ (4 ha)	Linkages (4 ha)	Water Protection (2 ha)	Woodland Diversity Representation (4 ha)	Woodland Uncommon Characteristics (0.5 – 2 ha)	Significant	Not Significan
ВМ	1774.24	893.57	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> <li>Colonially Nesting Bird Breeding Habitat (Trees &amp; Shrubs)</li> <li>Waterfowl Nesting Habitat</li> <li>Amphibian Breeding Habitat (Woodland)</li> <li>Woodland Area-Sensitive Bird Breeding Habitat</li> <li>Wood Thrush Habitat</li> </ul>	Woodland BM is large and provides direct connectivity to other woodlands within the Lennox & Addington County.	Woodland BM is directly adjacent to Pennell's Creek PSW, Biddy's Lake PSW and a Salmon River tributary. Woodland BM contains unevaluated wetland.	Forest Type (FOMM4-3); Dry-Fresh Ironwood Deciduous Forest Type (FODM4-4); Dry-Fresh White Cedar Coniferous Forest Ecosite (FOCM2-2): Fresh-Moist White Cedar	characteristics	~	
BP	0.81	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland BP is not between two other significant features within 120 m.	Woodland BP is within 50 m of Salmon River tributary.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2. Dominant canopy species include Green Ash.	No uncommon characteristics.		~
BS	1.29	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland BS is not between two other significant features within 120 m.	Woodland BS is within 50 m of a Salmon River tributary. Woodland BS contains Dillon Delineated Wetlands.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash.	No uncommon characteristics		1
BT	0.53	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland BT is not between two other significant features within 120 m.	Woodland BT is within 50 m of a Salmon River tributary. Woodland BT contains unevaluated wetlands. Woodland BT contains Dillon Delineated Wetlands.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash.	No uncommon characteristics		~
BU	1.65	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland BU is not between two other significant features within 120 m.	Woodland BU is within 50 m a Salmon River tributary. Woodland BU contains unevaluated wetlands. Woodland BU contains Dillon Delineated Wetlands.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash.	No uncommon characteristics		1



p	Size Criterion		Ecological Function Criteria					Evaluation of Significar	
Woodland ID	Woodland Size (ha) (≥20 ha)	Woodland Interior (ha) (2 ha)	Proximity to Other Significant Woodlands or Habitats ( Within 30 m) ^ (4 ha)	Linkages (4 ha)	Water Protection (2 ha)	Woodland Diversity Representation (4 ha)	Woodland Uncommon Characteristics (0.5 – 2 ha)	Significant	Not Significant
СА	2.63	0	N/A	Woodland CA is not between two other significant features within 120 m.	Woodland CA is within 50 m a Salmon River tributary.	Identified as Green Ash Mineral Deciduous Swamp (SWDM2-2). Dominant canopy species includes Green Ash.	No uncommon characteristics	~	
CN	0.89	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland CN is not between two other significant features within 120 m.	Woodland CN does not contain any notable surface water and is not identified as a source water protection area.	Identified as Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5). Dominant canopy species include Sugar Maple.	No uncommon characteristics		✓
CW	72.95	7.85	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland CW is between two significant natural features (Woodland BM and CX) within 120 m.	Woodland CW contains unevaluated wetland. Woodland CW is adjacent to the Pennell's Creek PSW tributary.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash.	No uncommon characteristics	V	
сх	38.21	4.17	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> <li>Waterfowl Nesting Area</li> </ul>	Woodland CX is not between two other significant features within 120 m.	Woodland CX contains unevaluated wetland. Woodland CX is adjacent to the Pennell's Creek PSW tributary.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash.	No uncommon characteristics	~	
CY	1.49	0	<ul> <li>Colonially Nesting Bird Breeding Habitat (Trees &amp; Shrubs)</li> <li>Waterfowl Nesting Area</li> <li>Amphibian Breeding Habitat (Woodland)</li> </ul>	Woodland CY is not between two other significant features within 120 m.	Woodland CY contains unevaluated wetland. Woodland CY contains Dillon delineated wetland. Woodland CY is within 50 m of Pennell's Creek PSW tributary.	Identified as Black Ash Mineral Deciduous Swamp (SWDM2-1). Dominant canopy species include Black Ash.	No uncommon characteristics		✓
CZ	1.57	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> <li>Colonially Nesting Bird Breeding Habitat (Trees &amp; Shrubs)</li> </ul>	Woodland CZ is not between two other significant features within 120 m.	Woodland CZ contains unevaluated wetland. Woodland CZ contains Dillon delineated wetland. Woodland CZ is within 50 m of Pennell's Creek PSW.	Identified as Green Ash Mineral Deciduous Swamp (SWDM2-2) and Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash.	No uncommon characteristics		✓
DB	101.41	32.81	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland DB is not between two other significant features within 120m.	Woodland CN does not contain any notable surface water and is not identified as a source water protection area.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash.	No uncommon characteristics	~	
DD	3.86	0	N/A	Woodland DD is not between two other significant features within 120m.	Woodland DD does not contain any notable surface water and is not identified as a source water protection area.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash.	No uncommon characteristics		✓



p	Size Criterion	Ecological Function Criteria						<b>Evaluation of Significance</b>	
Woodland ID	Woodland Size (ha) (≥20 ha)	Woodland Interior (ha) (2 ha)	Proximity to Other Significant Woodlands or Habitats ( Within 30 m) ^ (4 ha)	Linkages (4 ha)	Water Protection (2 ha)	Woodland Diversity Representation (4 ha)	Woodland Uncommon Characteristics (0.5 – 2 ha)	Significant	Not Significant
DF	2.64	0	N/A	Woodland DF is not between two other significant features within 120m.	Woodland DF does not contain any notable surface water and is not identified as a source water protection area.	Identified as Fresh-moist White Cedar Coniferous Forest Ecosite (FOCM4). Dominant canopy species include Eastern White Cedar.	No uncommon characteristics		*
DI	0.46	0	Reptile Hibernaculum	Woodland DI is not between two other significant features within 120m.	Woodland DI does not contain any notable surface water and is not identified as a source water protection area.	Identified as Dry-Fresh Poplar Mixed Forest Type (FOMM5-2). Dominant canopy species include Trembling Aspen.	No uncommon characteristics		v
DL	2.15	0	N/A	Woodland DL is not between two other significant features within 120m.	Woodland DL does not contain any notable surface water and is not identified as a source water protection area.	Identified as Dry-Fresh White Pine-Hardwood Mixed Forest Type (FOMM2-3); Dry-Fresh Poplar Deciduous Forest Type (FODM3-1). Dominant canopy includes White Pine and Eastern White Cedar.	No uncommon characteristics		✓
DM	3.06	0	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> <li>Colonially Nesting Bird Breeding Habitat (Trees &amp; Shrubs)</li> <li>Waterfowl Nesting Area</li> </ul>	Woodland DM is not between two other significant features within 120m.	Woodland DM does not contain any notable surface water and is not identified as a source water protection area.	Identified as Green Ash Mineral Deciduous Swamp (SWDM2-2). Dominant canopy includes Green Ash.	No uncommon characteristics		¥
DN	0.54	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland DN is not between two other significant natural features within 120 m.	Woodland DN is within 50 m of a tributary to Mud Creek PSW and Perry's Lake.	Identified as Dry-Fresh Red Cedar Coniferous Woodland (WOCM1-1). Dominant canopy includes Eastern Red Cedar.	No uncommon characteristics		√
DO	0.55	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland DO is not between two other significant features within 120 m.	Woodland DO does not contain any notable surface water and is not identified as a source water protection area.	Identified as Dry-Fresh Red Cedar Coniferous Woodland (WOCM1-1). Dominant canopy includes Eastern Red Cedar.	No uncommon characteristics		✓
DP	0.03	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> <li>Colonially Nesting Bird Breeding Habitat (Trees &amp; Shrubs)</li> </ul>	Woodland DP is not between two other significant features within 120 m.	Woodland DP is within 50 m of a Salmon River tributary.	Identified as Fresh-Moist White Cedar Coniferous Forest Type (FOCM4-1). Dominant canopy included Eastern White Cedar.	No uncommon characteristics		~
DQ	0.14	0	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> <li>Colonially Nesting Bird Breeding Habitat (Trees &amp; Shrubs)</li> </ul>	Woodland DO is not between two other significant natural features within 120 m.	Woodland DQ is within 50 m of a Salmon River tributary.	Identified as Mineral Deciduous Swamp Ecosite (SWDM4). Dominant canopy includes Trembling Aspen and Freeman's Maple.	No uncommon characteristics		✓



p	Size Criterion	Ecological Function Criteria						Evaluation of Significance	
Woodland	Woodland Size (ha) (≥20 ha)	Woodland Interior (ha) (2 ha)	Proximity to Other Significant Woodlands or Habitats ( Within 30 m) ^ (4 ha)	Linkages (4 ha)	Water Protection (2 ha)	Woodland Diversity Representation (4 ha)	Woodland Uncommon Characteristics (0.5 – 2 ha)	Significant	Not Significant
DR	0.25	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland DR is not between two other natural features within 120 m.	Woodland DR contains a Salmon River tributary.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash.	No uncommon characteristics.		~
DT	0.30	0	N/A	Woodland DT is not between two other significant features within 120 m.	Woodland DT does not contain any notable surface water and is not identified as a source water protection area.	Identified as Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5). Dominant canopy species include Sugar Maple.	No uncommon characteristics.		✓
DU	0.13	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland DU is not between two other significant features within 120 m.	Woodland DU does not contain any notable surface water and is not identified as a source water protection area.	Identified as Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5). Dominant canopy species include Sugar Maple.	No uncommon characteristics.		✓
DX	0.05	0	<ul> <li>Colonially Nesting Bird Breeding Habitat (Trees &amp; Shrubs)</li> </ul>	Woodland DX is not between two other significant features within 120 m.	Woodland DX does not contain any notable surface water and is not identified as a source water protection area.	Identified as Dry-Fresh Red Cedar Coniferous Woodland (WOCM1-1). Dominant canopy species include Eastern Red Cedar.	No uncommon characteristics.		✓
DY	0.33	0	<ul> <li>Generalized Candidate Significant</li> <li>Wildlife Habitat</li> </ul>	Woodland DY is not between two other significant features within 120m.	Woodland DY is within 50 m of Pennell's Creek.	Identified as Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant canopy species include Green Ash.	No uncommon characteristics.		~
DZ	0.69	0	Reptile Hibernaculum	Woodland DZ is not between two other significant features within 120m	Woodland DZ is within 50 m of Mud Creek PSW.	Identified as Dry-Fresh Sugar Maple – Hardwood Calcareous Shallow Deciduous Forest (FODR1-1). Dominant canopy species include Sugar Maple.	No uncommon characteristics		~
EA	7.24	0	<ul> <li>Reptile Hibernaculum</li> <li>Alvar</li> <li>Waterfowl Nesting Area</li> <li>Amphibian Breeding Habitat (Woodland)</li> </ul>	Woodland EA is between Woodland AD and Mud Creek PSW.	Woodland EA is within 50 m of Mud Creek PSW.	Identified as Dry – Fresh Ironwood Deciduous Forest (FODR1-1), Dry – Fresh White Cedar – Hardwood Mixed Forest Type. Dominant canopy species include Ironwood and White Cedar.	No uncommon characteristics	✓	
F	1.73	0	N/A	Woodland F is not between two other significant features within 120 m.	Woodland F does not contain any notable surface water and is not identified as a source water protection area.	Identified as Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5). Dominant canopy species include Sugar Maple.	No uncommon characteristics.		✓
L	132.37	29.31	<ul> <li>Waterfowl Nesting Area</li> </ul>	Woodland L is between two other significant features within 120 m.	Woodland L contains Mud Creek PSW.	Identified as: Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5); Dry-Fresh Ironwood Deciduous Forest Type (FODM4-4); Dry- Fresh White Cedar Calcareous Bedrock Coniferous Forest Type (FOCS3-1); Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2). Dominant species include Sugar Maple, Ironwood, Eastern White Cedar and Green Ash.	No uncommon characteristics.	¥	



/									
	p	Size Criterion			Evaluation of Significance				
	Woodland ID	Woodland Size (ha) (≥20 ha)	WoodlandProximity to Other Significant WoodlandInterior (ha)or Habitats (Within 30 m) ^(2 ha)(4 ha)	ds Linkages (4 ha)	Water Protection (2 ha)	Woodland Diversity Representation (4 ha)	Woodland Uncommon Characteristics (0.5 – 2 ha)	Significant	Not Significant
	I	261.96	<ul> <li>Generalized Candidate Significant Wildlife Habitat</li> <li>Colonially Nesting Bird Breeding Habitat (Trees &amp; Shrubs)</li> <li>Waterfowl Nesting Area</li> <li>Amphibian Breeding Habitat (Woodland</li> <li>Reptile Hibernaculum Habitat</li> <li>Woodland Area-Sensitive Bird Breeding Habitat</li> <li>Wood Thrush</li> </ul>	Woodland I is not between two other significant d) natural features within 120 m.	Woodland I contain Hinch Swamp Complex PSW. Woodland I contain unevaluated wetlands. Woodland I contains Dillon delineated wetland.	Identified as: Swamp Maple Deciduous Swamp (SWDO2-3); White Cedar Coniferous Forest (FOCM2-2); Poplar Mixed Forest (FOMM5- 2); Poplar Deciduous Forest (FODM8-3); Green Ash – Hardwood Lowland Deciduous Forest (FODM7-2).	No uncommon characteristics.	✓	

^"Proximity to Other Significant Habitats" contains both "Significant" and "Treated as Significant" Wildlife Habitat. A distinction between the two was not deemed necessary as this Ecological Function Criteria, solely, did not affect the Significance classification of any Woodland.

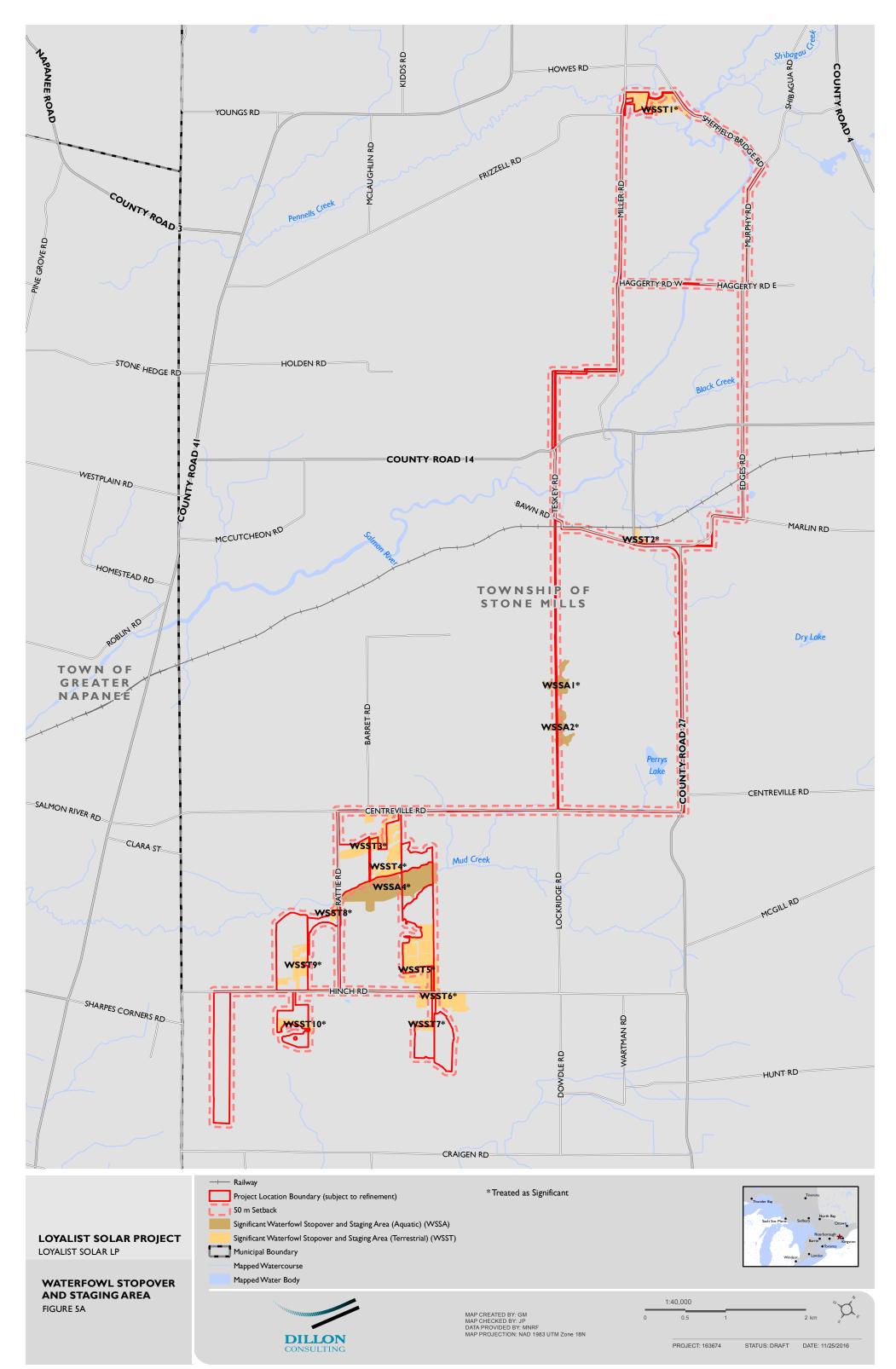


## 8.3 Wildlife Habitat

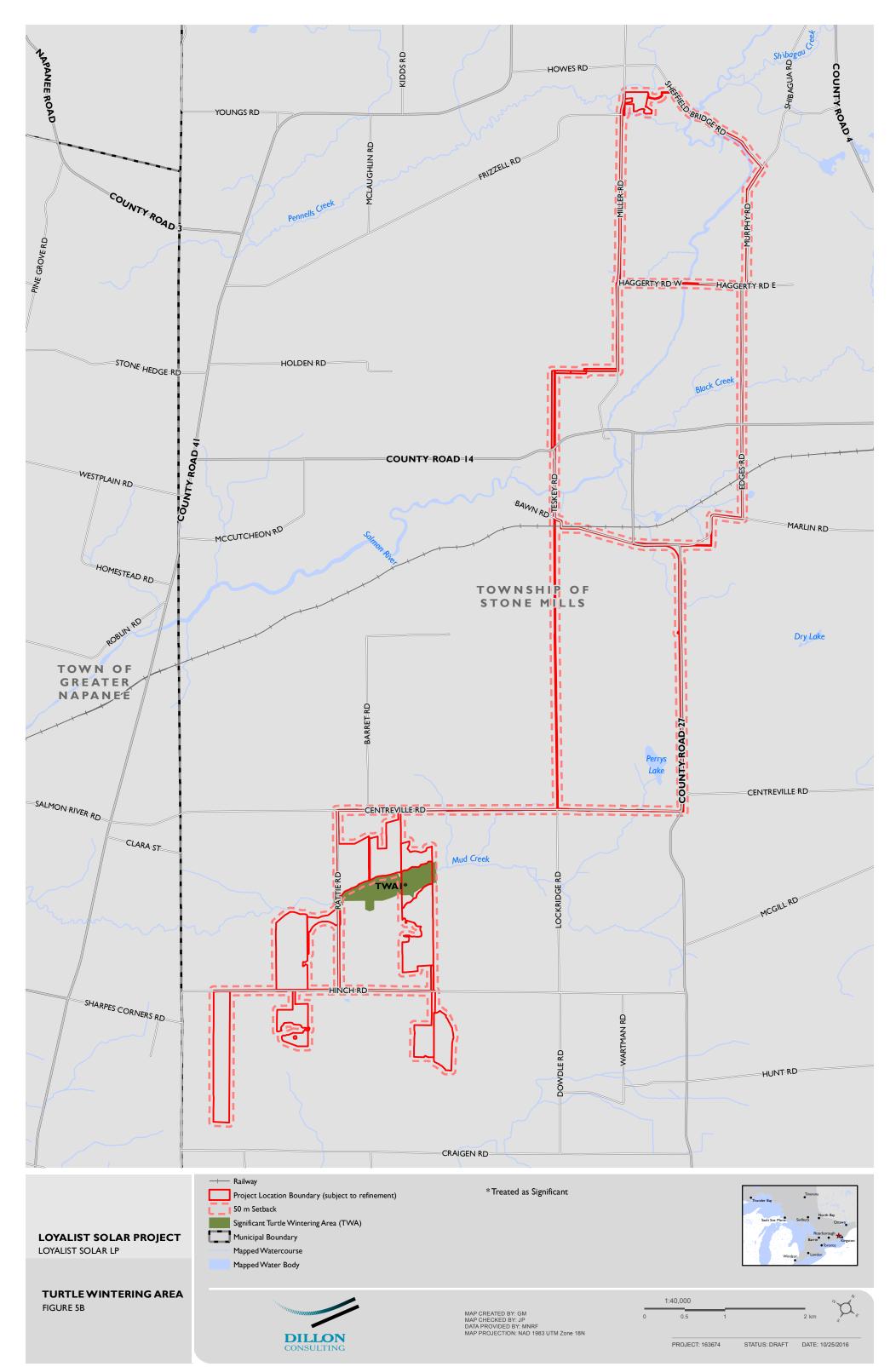
As discussed in **Section 6.4**, wildlife habitat was assessed using the Significant Wildlife Habitat Technical Guide (MNR 2000) and the associated Ecoregion 6E Criteria Schedules (MNRF 2015). For complete descriptions related to each type of wildlife habitat and the associated defining criteria, please refer to these sources. Candidate wildlife habitat was scoped by applying the criteria found within the above technical guide and its associated appendices to the site conditions in the Project Location and surrounding lands determined through field work (**Table 7**). Where appropriate studies to determine the significance of a wildlife habitat have not been conducted, wildlife habitat has been treated as significant. For natural features treated as significant, pre-construction surveys will be undertaken to confirm their status (where required) and mitigation measures for environmental effects will be outlined in the *NHA EIS Report*. Details of the evaluation are outlined in **Table 7**. Field notes are available in *Appendix C* to supplement the details outlined in **Table 7**.

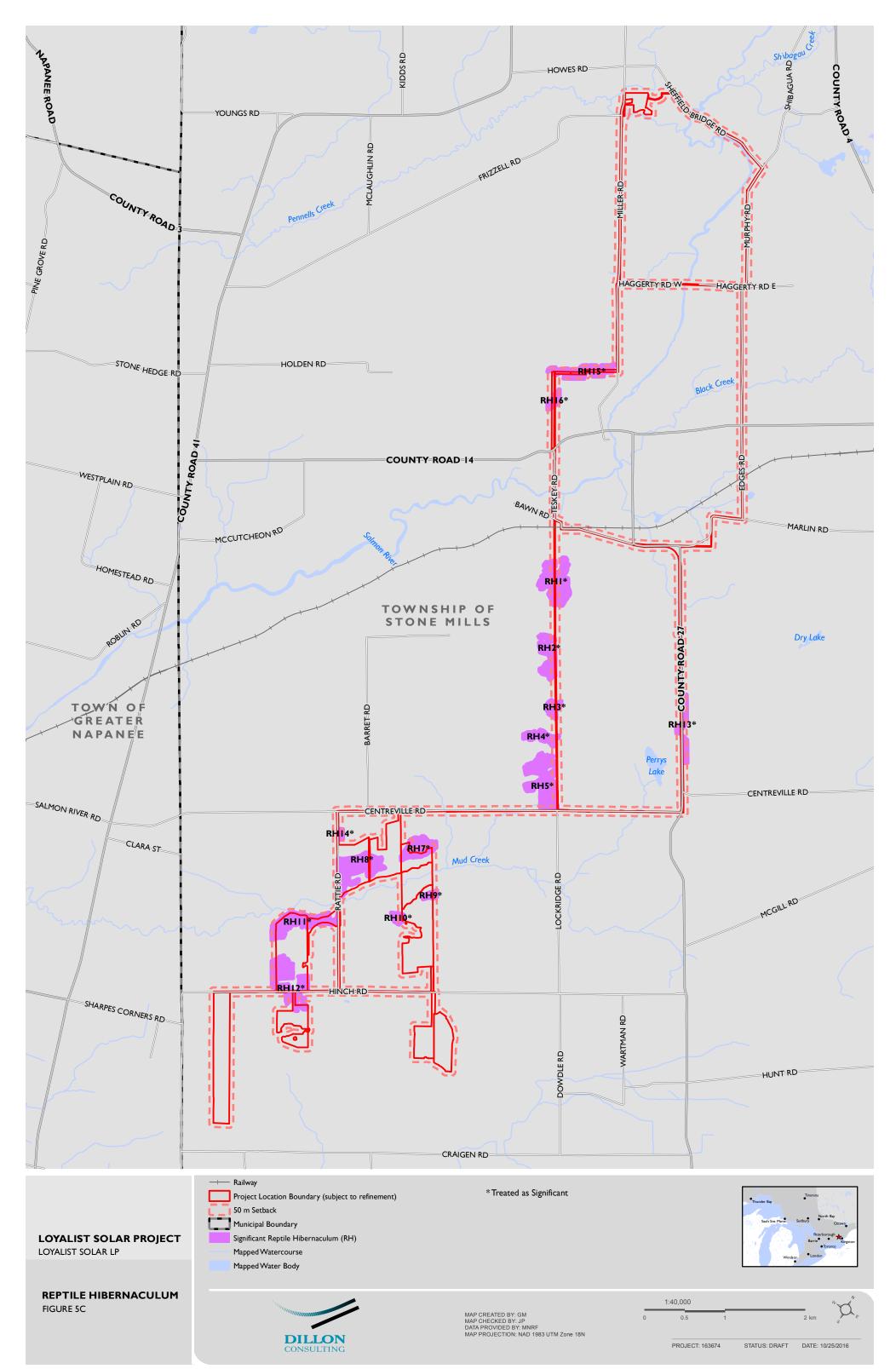
Note that following the completion of the *NHA Site Investigation Report*, the Project Location was refined for the purposes of the *NHA Evaluation of Significance Report*. As such, candidate wildlife habitat identified in the *NHA Site Investigation Report* that is no longer within the Project Location or 50 m setback will be labelled as Not Applicable ("N/A") in **Table 7** below.

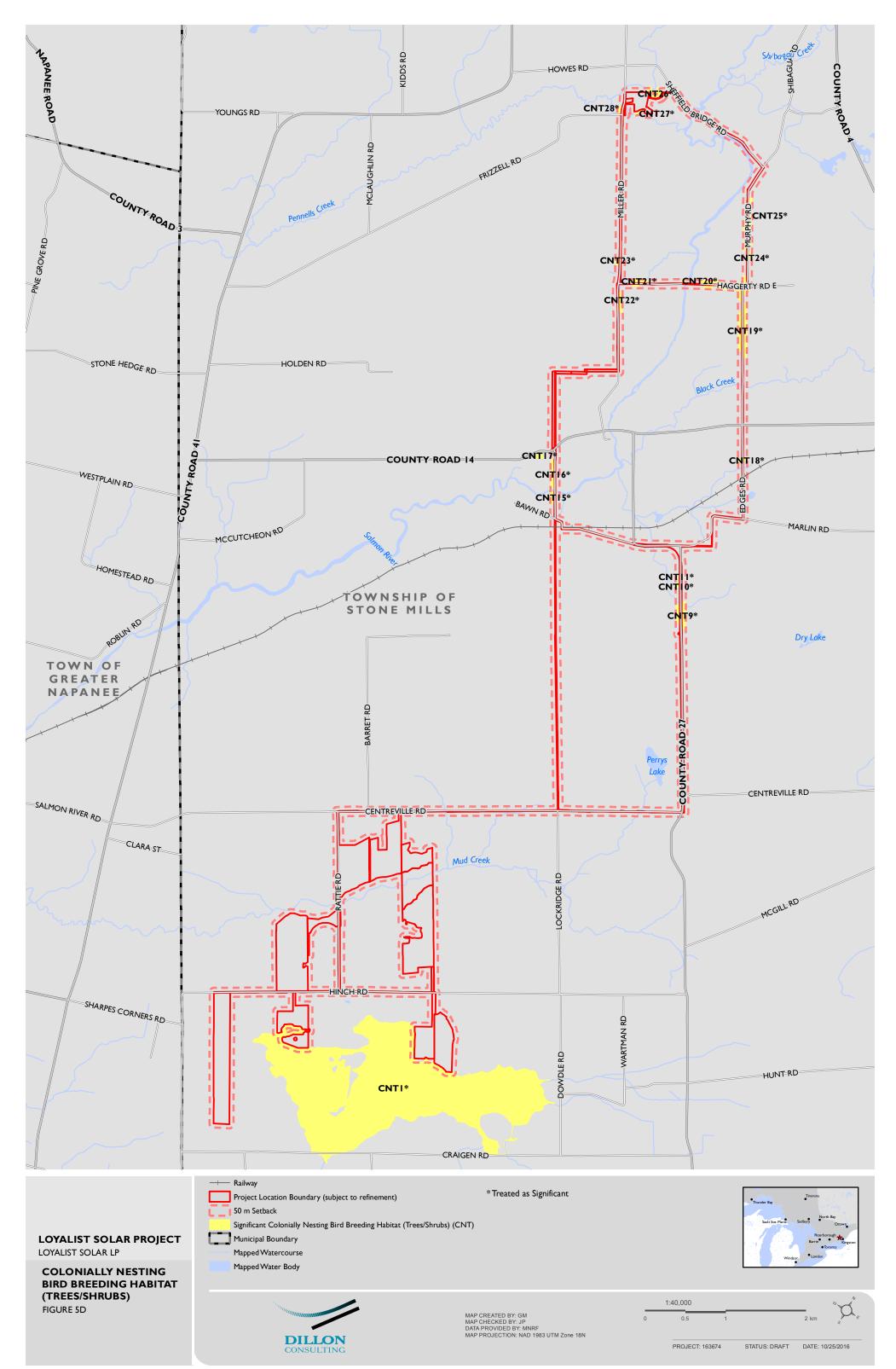


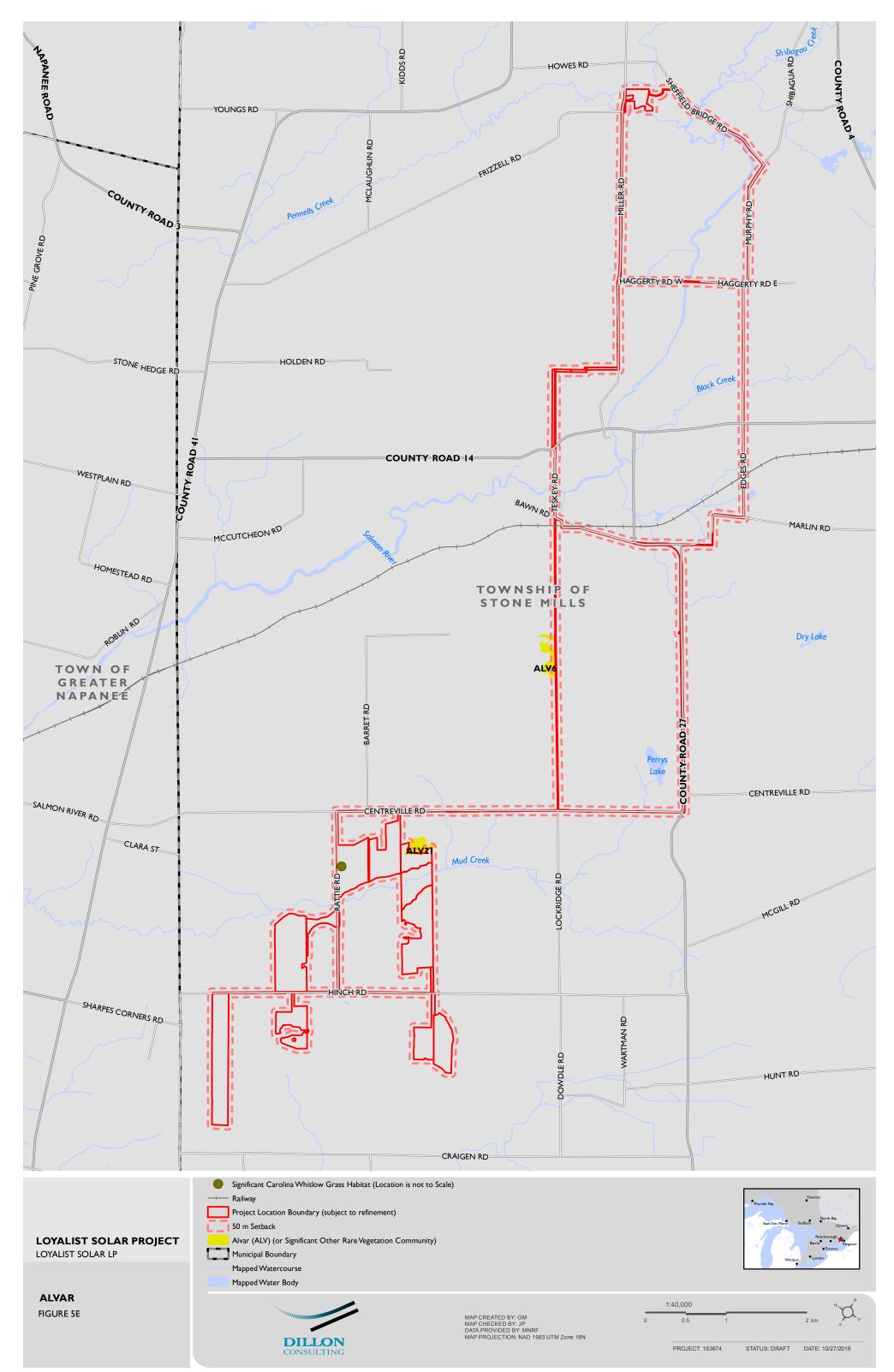


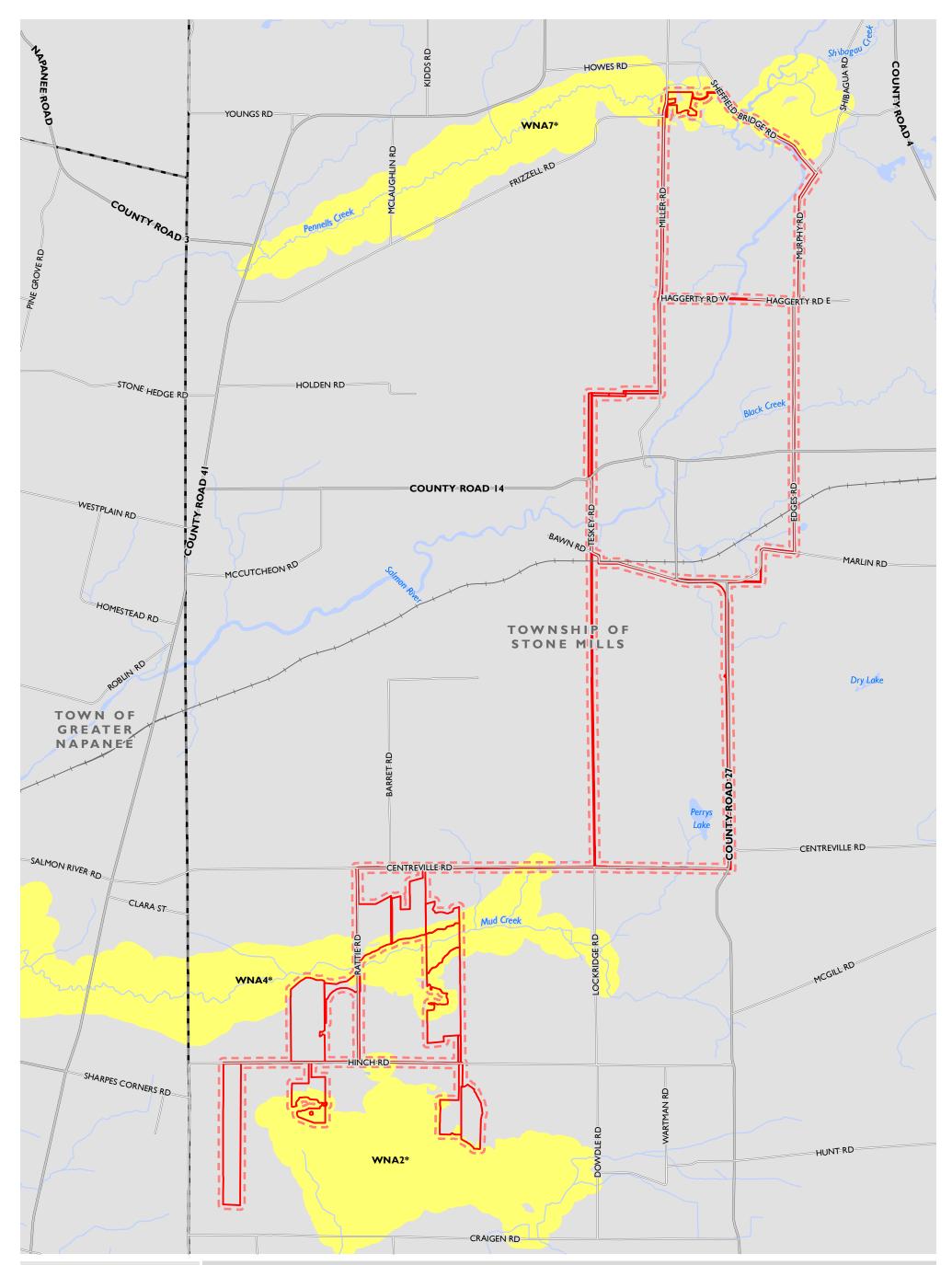
FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\EOS\Figure 5A Waterfowl Stopover and Staging Area.mxd

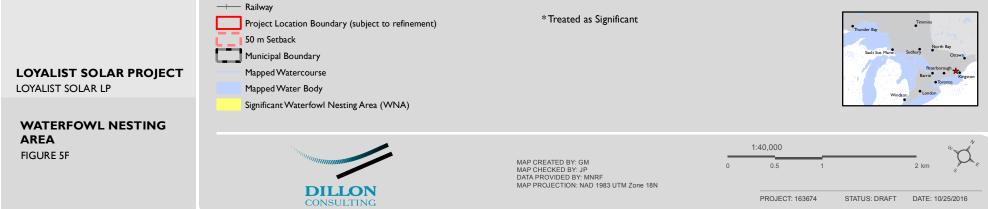


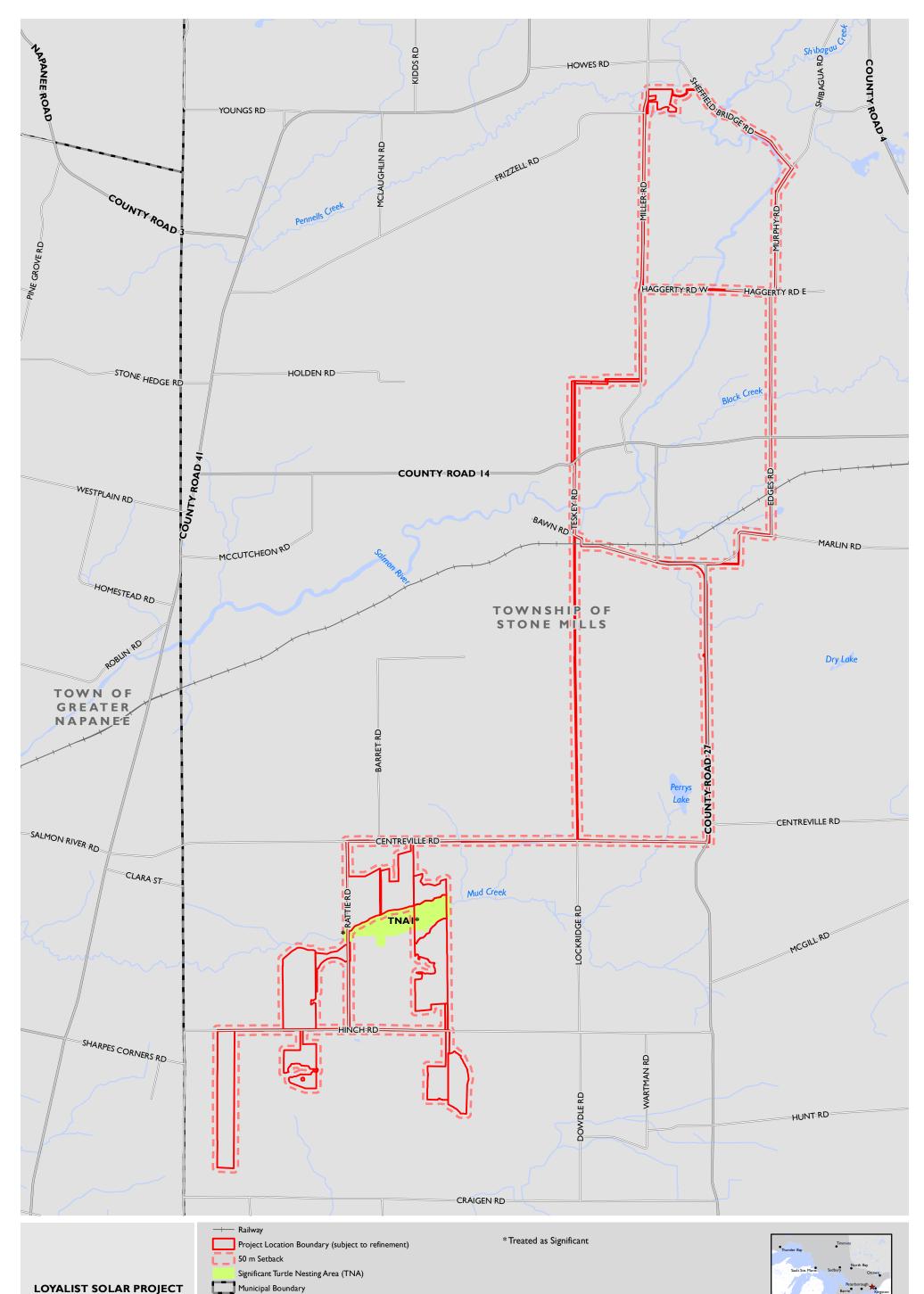












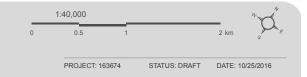
LOYALIST SOLAR LP

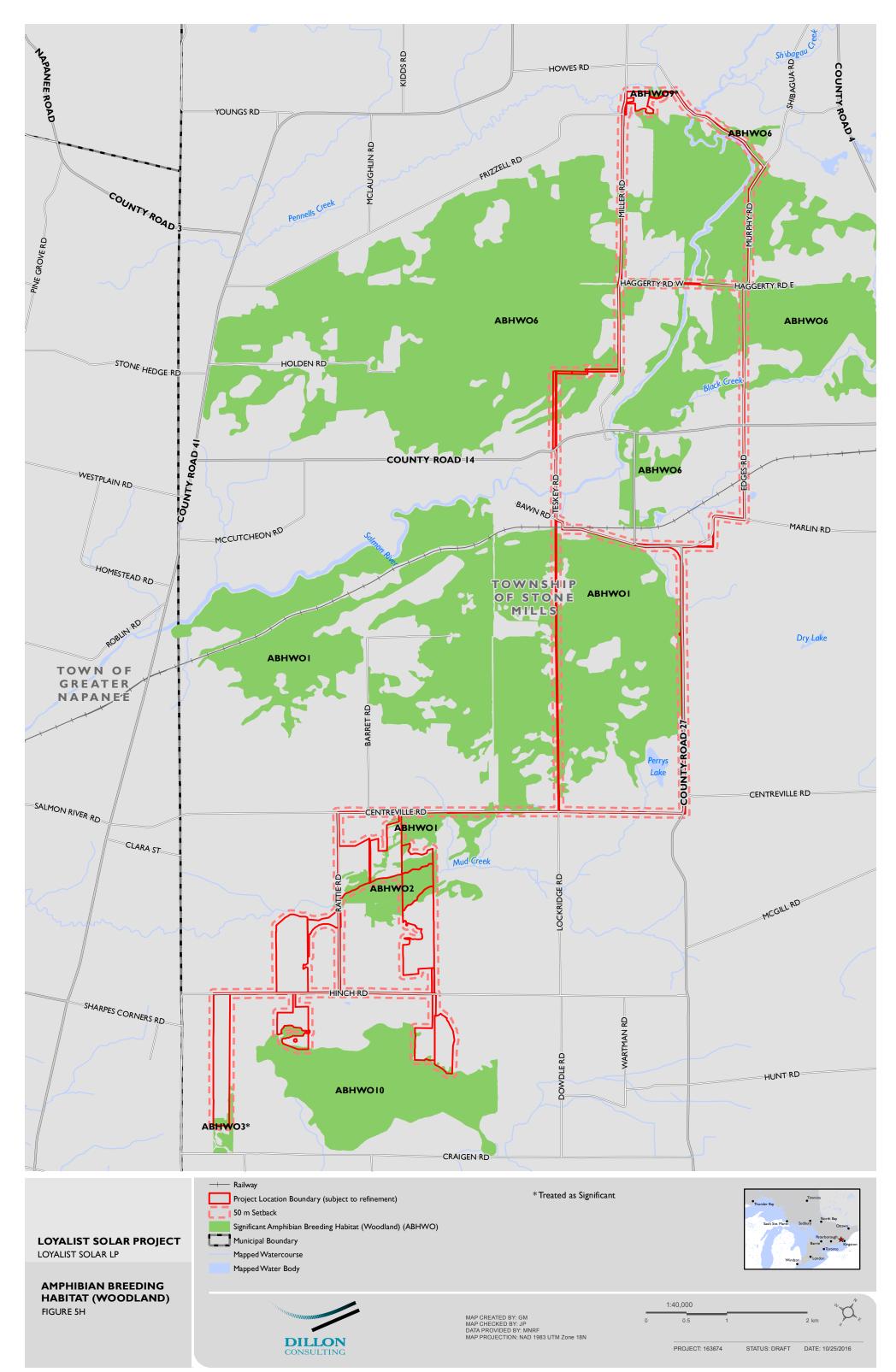
TURTLE NESTING SITE FIGURE 5G

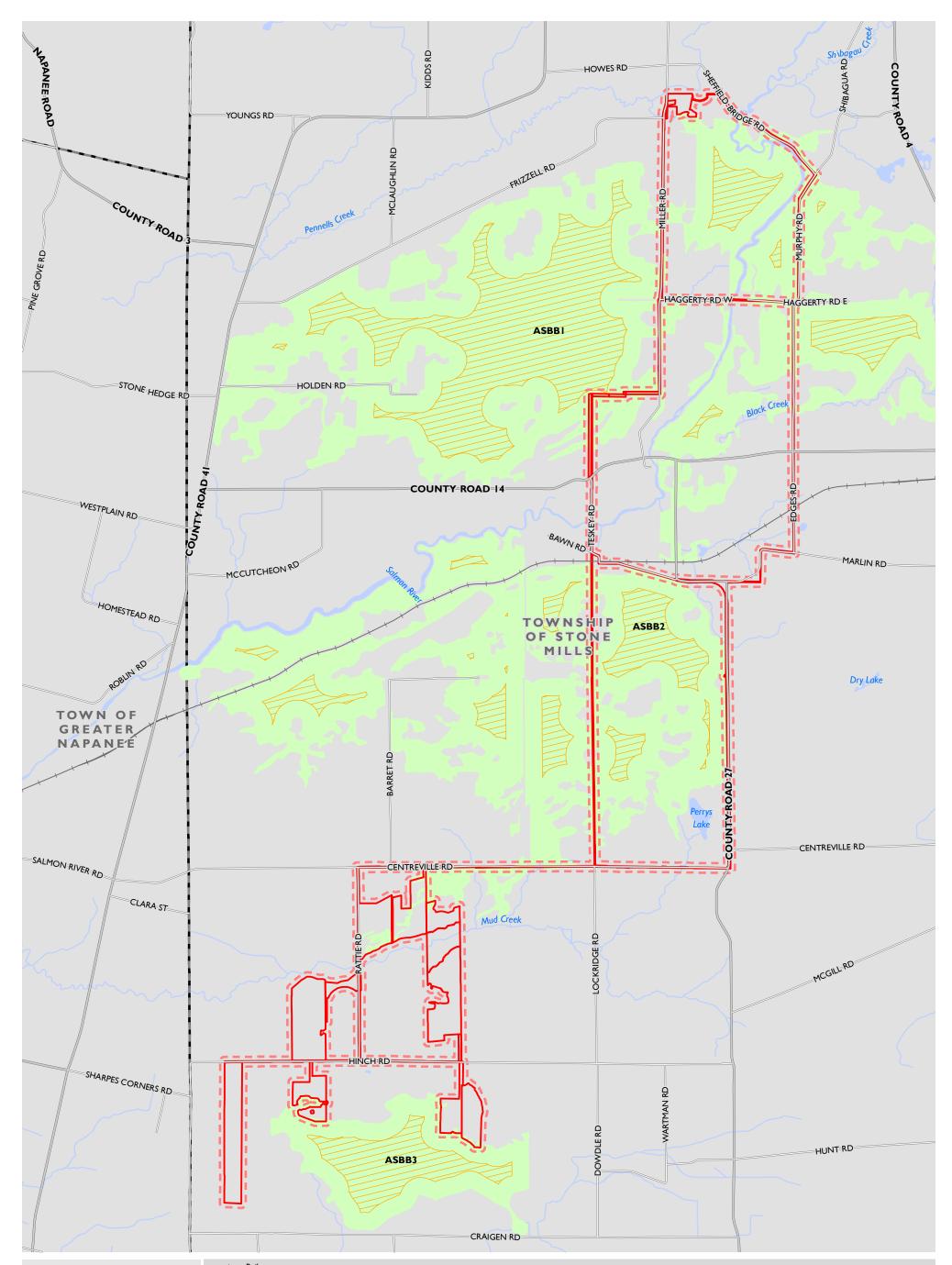
Mapped Watercourse

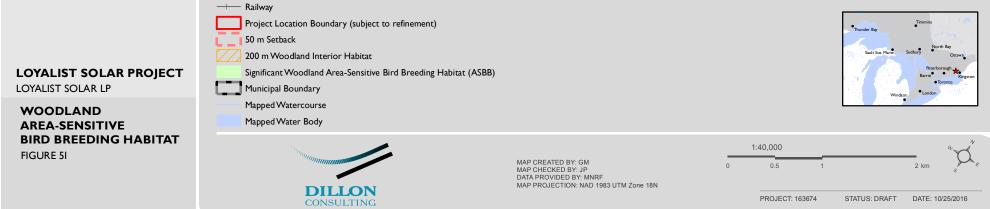
CONSULTING

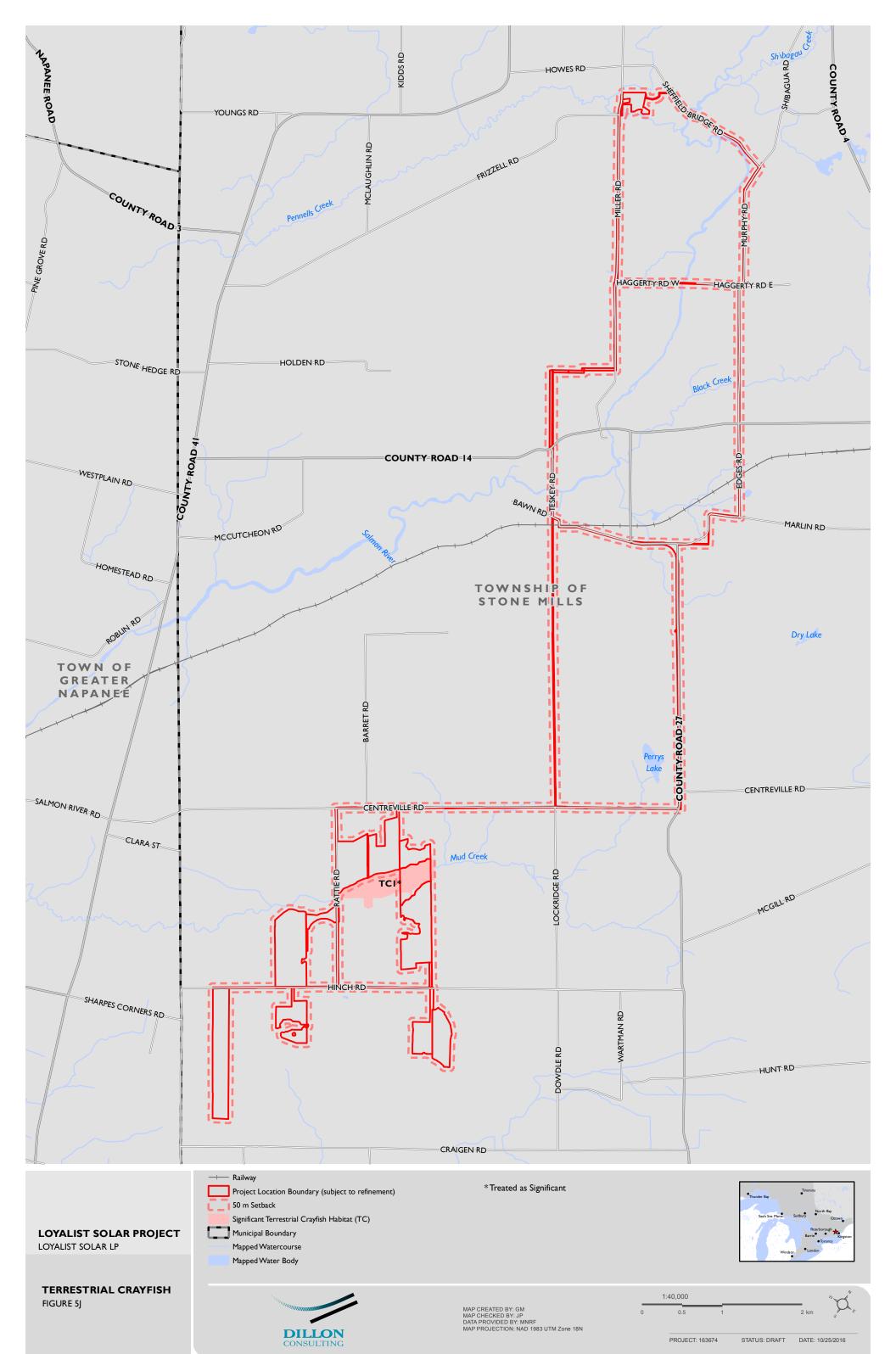
MAP CREATED BY: GM MAP CHECKED BY: JP DATA PROVIDED BY: MNRF MAP PROJECTION: NAD 1983 UTM Zone 18N



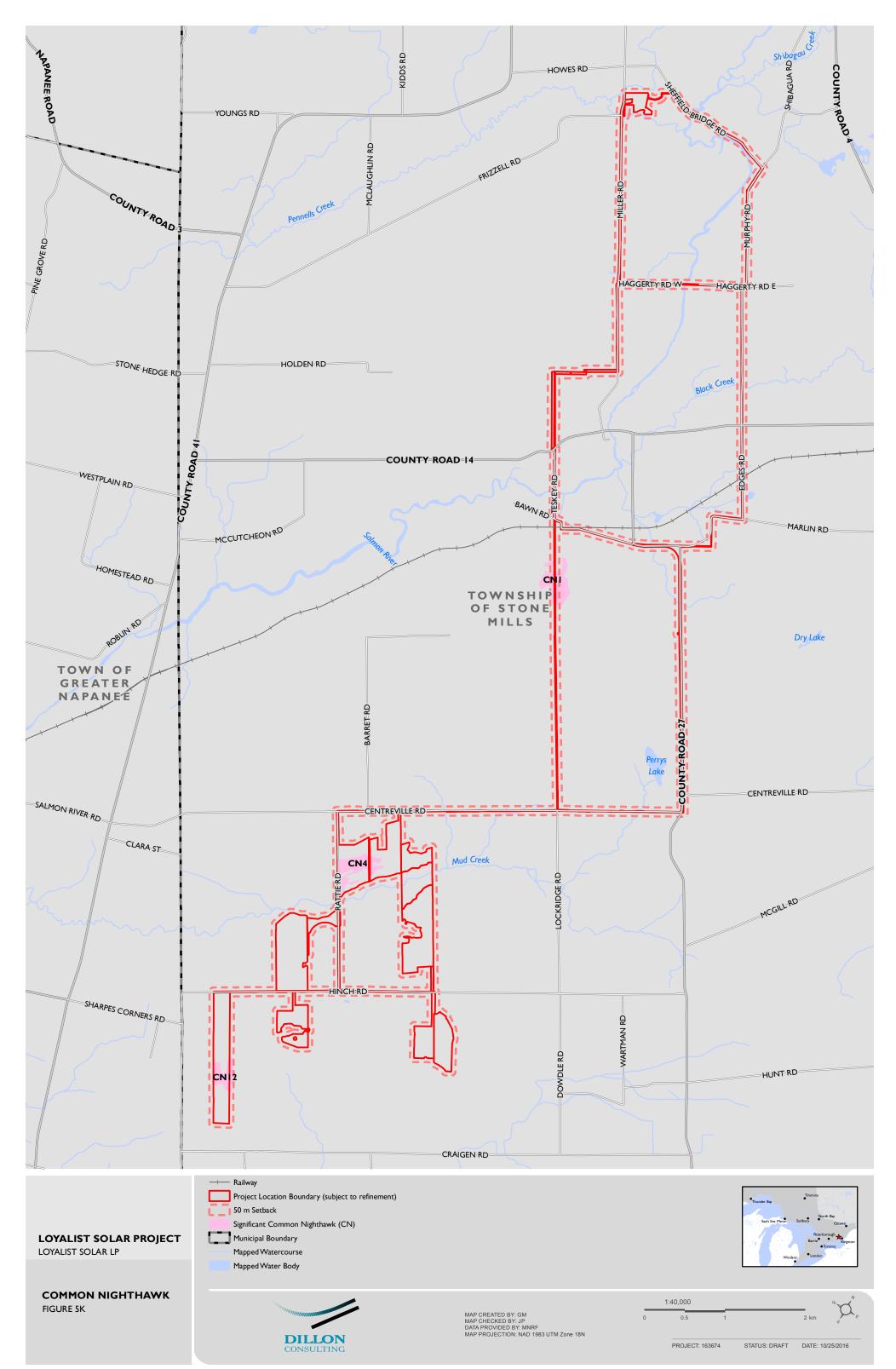


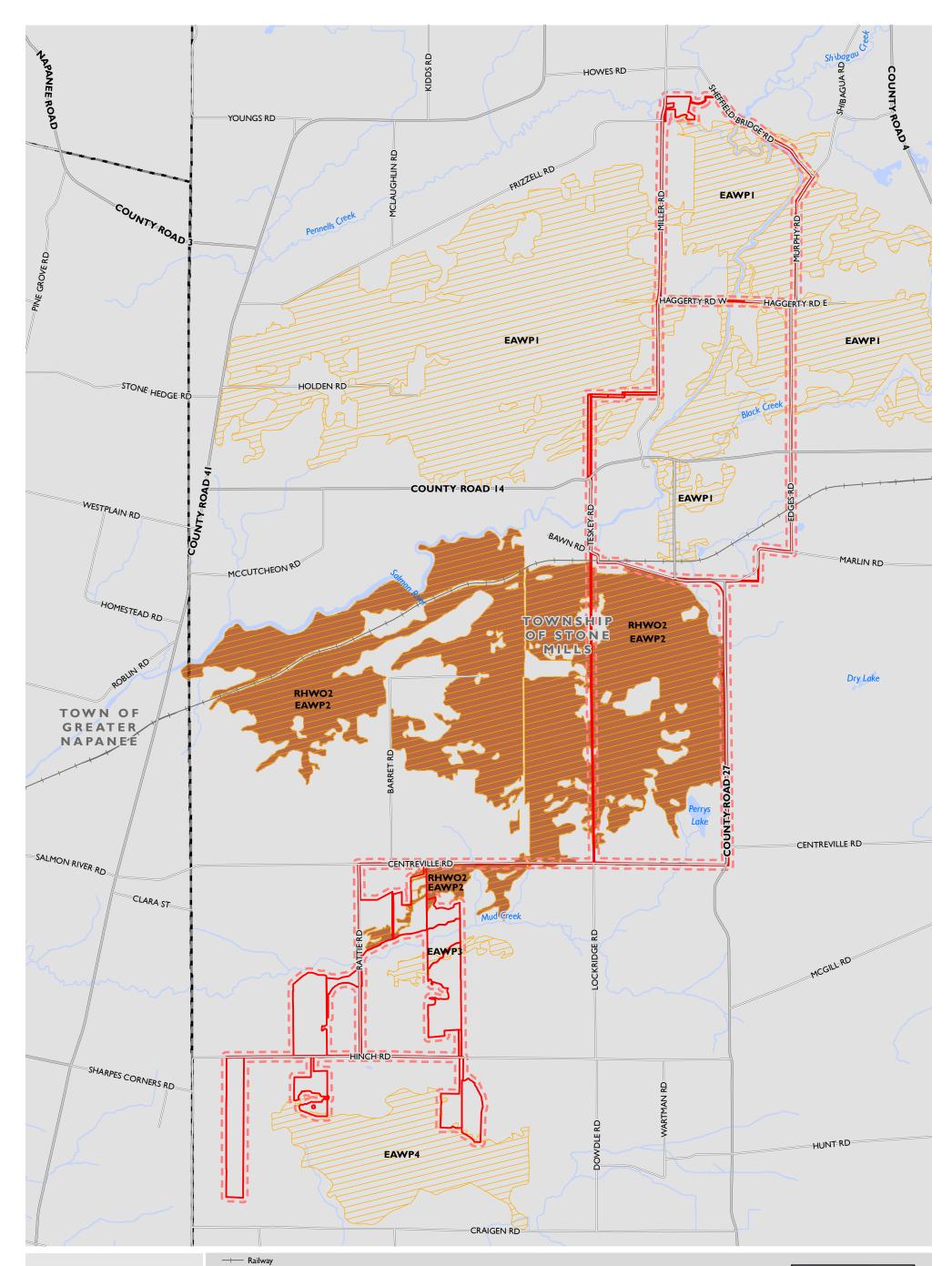






FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\EOS\Figure 5J Terrestrial Crayfish.mxd

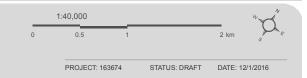




# LOYALIST SOLAR PROJECT LOYALIST SOLAR PROJECT LOYALIST SOLAR LP WOODLAND SPECIFIC BIRD SPECIES OF SPECIAL CONCERN



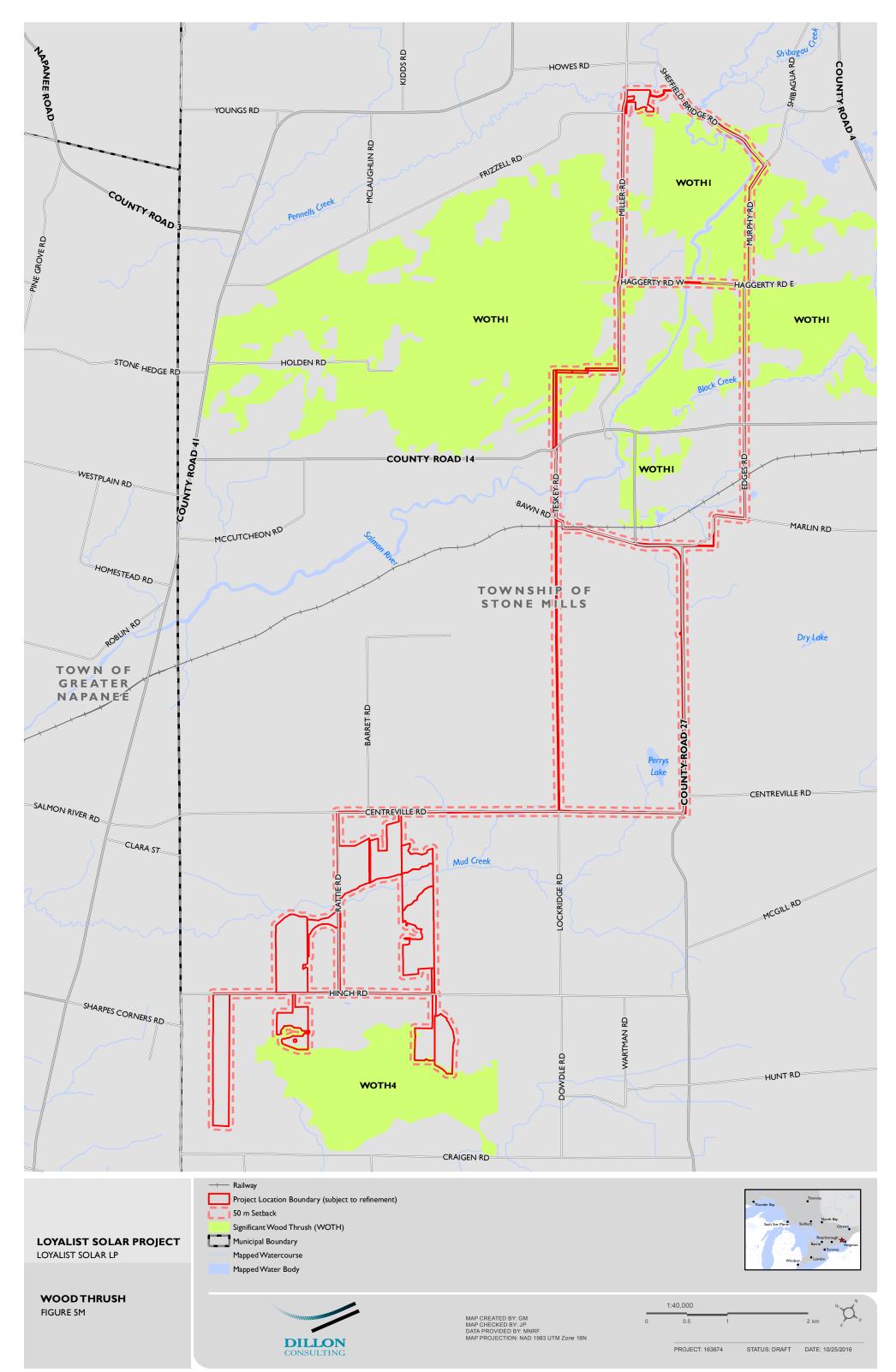
MAP CREATED BY: GM MAP CHECKED BY: JP DATA PROVIDED BY: MNRF MAP PROJECTION: NAD 1983 UTM Zone 18N

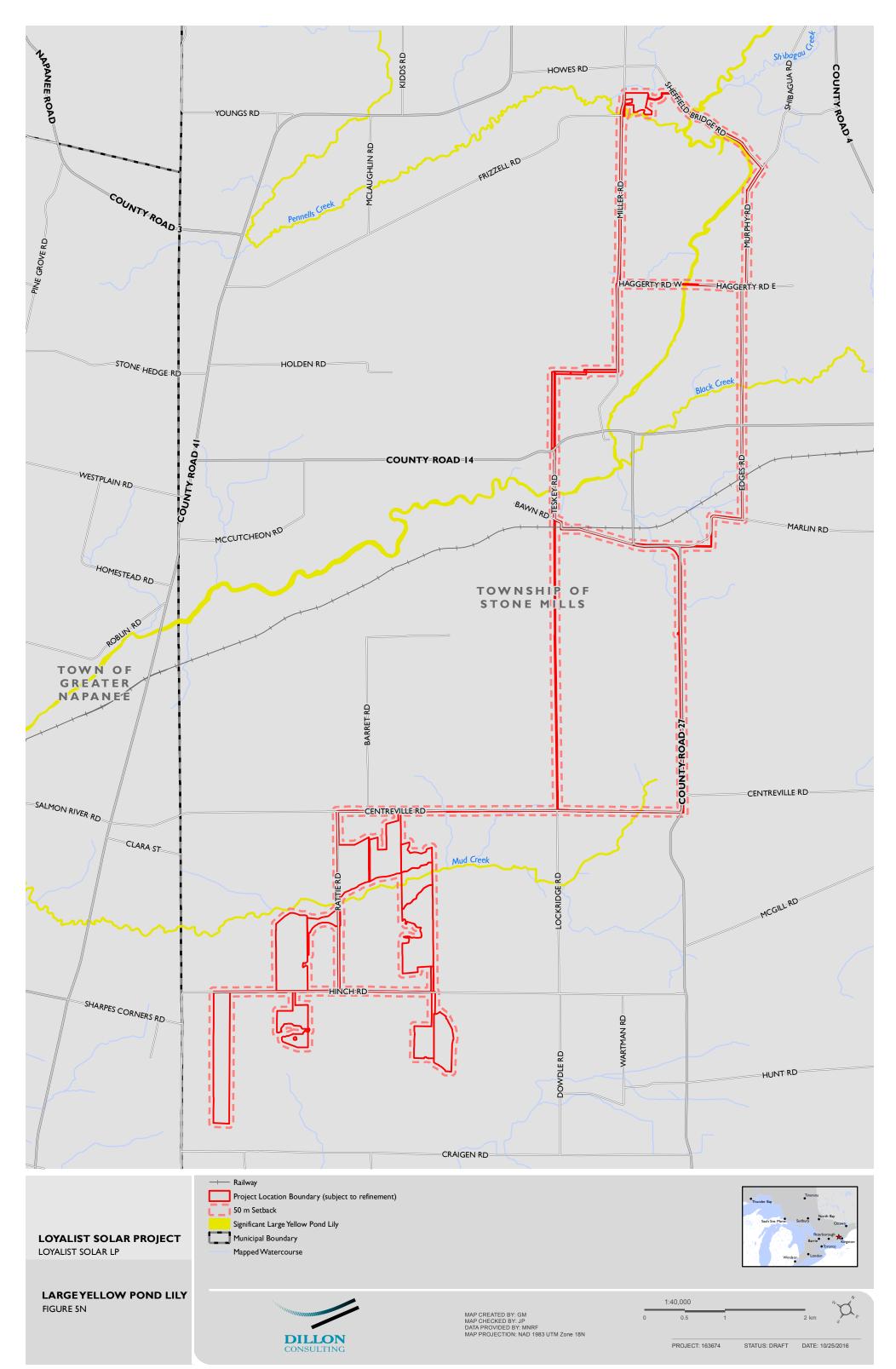


• •

Sudbury

FIGURE 5L





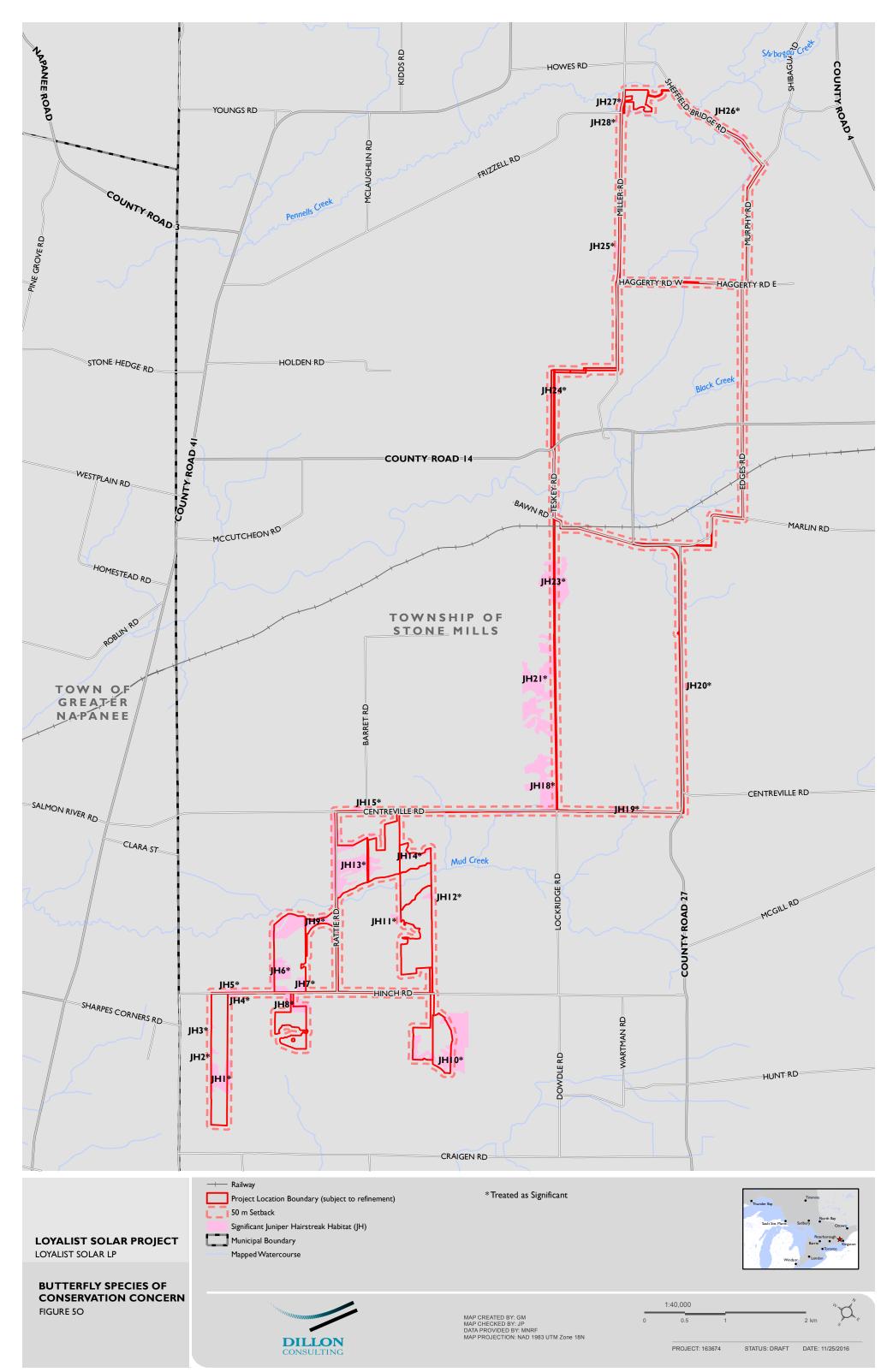


Table 7:	Significant Wildlife Habita	t Located in the Project	Location and 50 m Setback
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			Loc	ation		Status	1	
Wildlif Habita	Defining Criteria for Significant Wildlife Habitat	Habitat Composition: Attributes, Condition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Re

## **Seasonal Concentration Areas**

		ID	ELC*				
		WSST1	Perennial Cover Crop (44); Open Pasture (45); Mixed Meadow (40)	✓	~	 ✓	 Surveys within t in 2016. Diurna on June 1, 15 & June 1, 2016. Ha Therefore, this NHA EIS Report
	Fields with sheet water from spring melt and run-off which provide invertebrate foraging habitat for migrating waterfowl. Can be found in any Meadow (ME) (or CUM communities in the ELC first approximation codes) or Thicket (TH) (or CUT communities in the	WSST2	Perennial Cover Crop (44)	√	~	 ✓	 Surveys within t However, habita this habitat is tr <i>Report</i> .
Waterfowl Stopover and	Waterfowl         Stopover and         Staging Areas         (Terrestrial)         Annual use of habitat         Area of habitat is the flooded field ecosite plus a 100-300 m radius area         Wildlife Species to be Considered	WSST3	Perennial Cover Crop (44); Open Pasture (45)	✓	1	 V	 Surveys within t in 2016. Diurna May 27, June 14 48 on May 27 a during early spr and carried forv
		WSST4	Open Pasture (45); Perennial Cover Crop (44)	✓	~	 V	 Surveys within t in 2016. Diurnal May 27, June 1 <sup>2</sup> However, habita this habitat is tr <i>Report</i> .
	<ul> <li>American Black Duck</li> <li>Wood Duck</li> <li>Green-winged Teal</li> <li>Blue-winged Teal</li> <li>Gadwall</li> <li>Mallard</li> <li>Northern Pintail</li> <li>Northern Shoveler</li> <li>American Widgeon</li> </ul>	WSST5	Open Pasture (45); Perennial Cover Crop (44)	✓	✓	 V	 Surveys within t in 2016. Diurna surveyed on Ma BBS31 on June 8 Therefore, this I NHA EIS Report.
		WSST6	Open Pasture (45)	✓	~	 ~	 Surveys within t in 2016. Diurna on May 23, June during the 2016 and carried forv

# Relevant Evaluation Criteria Determining Status

## Figure 5A

In this habitat did not occur during the spring migration period rnal breeding bird survey stations BBS105-109 were surveyed & 30, 2016. One Wood Duck was observed at BBS105 on Habitat may be available during early spring or fall. is habitat is treated as significant and carried forward to the prt.

n this habitat did not occur during the 2016 field season. Ditat may be available during early spring or fall. Therefore, Is treated as significant and carried forward to the NHA EIS

In this habitat did not occur during the spring migration period rnal breeding bird survey stations BBS47-49 were surveyed on 14 and June 28, 2016. Mallards were observed at BBS49 and 7 and June 14, 2016, respectively. Habitat may be available spring or fall. Therefore, this habitat is treated as significant orward to the NHA EIS Report.

n this habitat did not occur during the spring migration period nal breeding bird survey stations BBS42-44 were surveyed on 14 and June 28, 2016. No waterfowl species were observed. Ditat may be available during early spring or fall. Therefore, streated as significant and carried forward to the NHA EIS

n this habitat did not occur during the spring migration period rnal breeding bird survey stations BBS31-33, 39 & 40 were May 23, June 8 and June 20, 2016. Mallards were observed at re 8, 2016. Habitat may be available during early spring or fall. is habitat is treated as significant and carried forward to the part.

n this habitat did not occur during the spring migration period rnal breeding bird survey stations BBS23 & 30 were surveyed une 8 and June 20, 2016. No waterfowl species were observed 016 field season. Therefore, this habitat is treated as significant prward to the NHA EIS Report.



				Loc	ation		Status		_
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	R
		WSST7	Open Pasture (45); Perennial Cover Crop (44)	~	V		*		Surveys within in 2016. Diurn 23, June 8 and the 2016 field carried forwar
(continued)		WSST8	Open Pasture (45)	√	~		✓		Surveys within Habitat may be treated as sign
Waterfowl Stopover and Staging Areas (Terrestrial)		WSST9	Perennial Cover Crop (44)	✓	~		×		Surveys within in 2016. Diurn 23, June 7 and 2016. Habitat habitat is treat Incidental obse 20 were record meet the mini
		WSST10	Perennial Cover Crop (44)	√	~		✓		Surveys within Habitat may be treated as sign
	Ponds, marshes, lakes, bays, coastal inlets, and watercourses used	ID	ELC*						
	during migration can be significant wildlife habitat for local and migrant waterfowl populations during migration. Sewage treatment ponds and stormwater ponds do not qualify as a significant wildlife habitat; however, a reservoir managed as a large wetland or pond/lake does qualify. These habitats have an abundant food supply (mostly aquatic	WSSA1	This candidate habitat is made up of SWDM4-5: Poplar Deciduous Swamp.	√	~		✓		Surveys within in 2016. Diurn 30, June 09 and habitat may be is treated as sig
Waterfowl topover and taging Areas	<ul> <li>invertebrates and vegetation in shallow water). Can be found in the following community types: Shallow Marsh (MAS), Shallow Aquatic (SA), and Deciduous Swamp (SWD).</li> <li><u>Significant wildlife habitat defining criteria:</u></li> <li>Aggregations of 100 or more listed species for 7 days, resulting in</li> </ul>	WSSA2	This candidate habitat is made up of SWDO2-3: Swamp Maple Organic Deciduous Swamp.	✓	~		✓		Surveys within in 2016. Diurn June 09 and Ju habitat may be is treated as sig
(Aquatic)	<ul> <li>&gt;700 waterfowl use days</li> <li>Areas of annual staging of ruddy ducks, canvasbacks, and redheads</li> <li>Wildlife species to be considered:</li> <li>Canada Goose</li> <li>Greater Scaup</li> <li>Cackling Goose</li> <li>Long-tailed Duck</li> <li>Snow Goose</li> <li>Surf Scoter</li> <li>American Black Duck</li> <li>Northern Pintail</li> <li>Black Scoter</li> <li>Northern Shoveler</li> <li>Ring-necked Duck</li> <li>Common Goldeneye</li> </ul>	WSSA4	This candidate habitat is made up of MASO1-1 : Cattail Organic Meadow Marsh	✓	✓		~		Surveys within in 2016. Diurn 38 surveyed or Mallard, was o during early sp and carried for

LOYALIST SOLAR LP Natural Heritage Assessment Evaluation of Significance Report - Loyalist Solar Project January 2017 – 16-3674

## Relevant Evaluation Criteria Determining Status

in this habitat did not occur during the spring migration period rnal breeding bird survey stations BBS24 were surveyed on May d June 20, 2016. No waterfowl species were observed during d season. Therefore, this habitat is treated as significant and and to the NHA EIS Report.

in this habitat did not occur during the 2016 field season. be available during early spring or fall. Therefore, this habitat is gnificant and carried forward to the NHA EIS Report.

in this habitat did not occur during the spring migration period rnal breeding bird survey stations BBS24 were surveyed on May id June 17, 2016. A Mallard was observed at BBS16 on June 17, t may be available during early spring or fall. Therefore, this ated as significant and carried forward to the NHA EIS Report.

servations of Mallards and Wood Ducks at station BBS18, 19 & rded throughout the field season. These observations did not nimum requirements to be considered significant.

in this habitat did not occur during the 2016 field season. be available during early spring or fall. Therefore, this habitat is gnificant and carried forward to the NHA EIS Report.

#### Figure 5A

in this habitat did not occur during the spring migration period rnal breeding bird survey station BBS62 was surveyed on May nd June 27. No waterfowl species were observed. However, be available during early spring or fall. Therefore, this habitat significant and carried forward to the NHA EIS Report.

in this habitat did not occur during the spring migration period rnal breeding bird survey station BBS60 surveyed on May 30, lune 27. No waterfowl species were observed. However, be available during early spring or fall. Therefore, this habitat significant and carried forward to the NHA EIS Report.

in this habitat did not occur during the spring migration period rnal breeding bird survey stations BBS41, 42, 43, 53, 36, 37 & on May 27, June 08, 14, 20 & 28. One waterfowl species, observed at BBS41 on June 28, 2016. Habitat may be available spring or fall. Therefore, this habitat is treated as significant orward to the NHA EIS Report.



				Loc	ation		Status		_
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Rel
Waterfowl Stopover and Staging Areas (Aquatic) <i>(Con'd)</i>	<ul> <li>Gadwall</li> <li>Green-winged Teal</li> <li>Blue-winged Teal</li> <li>Hooded Merganser</li> <li>Common Merganser</li> <li>Lessor Scaup</li> <li>Butfflehead</li> <li>Ruddy Duck</li> <li>Red-breasted Merganser</li> <li>Brant</li> <li>Canvasback</li> <li>Redhead</li> </ul>								Incidental obser recorded throug of Canada Goose observations dic significant.
	For most turtles, wintering areas are in the same general areas as	ID*	ELC*						
Turtle Wintering Areas	<ul> <li>their core habitat. Over-wintering sites are permanent water bodies, large wetlands, and bogs and fens with adequate dissolved oxygen. Water has to be deep enough not to freeze and have soft mud substrates. These habitats are found in the following Community Types: Swamp (SW), Marsh (MA), Open Water (OA), Shallow Water (SA), Open Fen (FEO), Open Bog (BOO).</li> <li><u>Significant wildlife habitat defining criteria:</u></li> <li>Presence of 5 over-wintering Midland Painted Turtles</li> <li>One or more Northern Map or Snapping turtles overwintering in a wetland</li> <li><u>Indicator/ Species of Conservation Concern:</u></li> <li>Midland Painted Turtle</li> <li>Common Snapping Turtle</li> <li>Northern Map Turtle</li> </ul>	TWA1	This candidate habitat is made up of MASO1-1 : Cattail Organic Meadow Marsh	✓	✓		¥		Surveys within t between March October in 2016 forward to the A Incidental obser surveys. Ten an on Rattie Road v respectively.
		ID	ELC*						
	Hibernation occurs in sites located below frost lines in burrows, rock crevices, broken and fissured rock, wetlands such as conifer or shrub	RH1	This candidate habitat is made up of RBTA1-7: Red Cedar Alvar Woodland.	~	~		✓		Deep fractures a surveys. This hal the NHA EIS Rep
Reptile	swamps and swales, poor fens, or depressions in bedrock terrain with sparse trees or shrubs with sphagnum moss or sedge hummock ground cover. Wetlands can also be important over-wintering habitat in conifer or shrub swamps and swales, poor fens, or depressions in bedrock terrain with sparse trees or shrubs with	RH2	This candidate habitat is made up of RBSA1-1: Common Juniper Shrub Alvar.	~	√		~		Deep fractures a surveys. This hal the NHA EIS Rep
Hibernaculum	sphagnum moss or sedge hummock ground cover. Hibernacula can be found in any ecosite in central Ontario other than very wet ones. The following Community Types may be directly related to snake hibernacula: Talus (TA), Rock Barren (RB), Crevice (CCR), Cave (CCA),	RH3	This candidate habitat is made up of SWCO1-1: White Cedar Organic Coniferous Swamp.	~	~		~		Deep fractures a field surveys. Ho during the 2016 carried forward
	and Alvar (RBOA1, RBSA1, and RBTA1).	RH4	This candidate habitat is made up of SWCO1-1: White Cedar Organic Coniferous Swamp.	~	~		~		Deep fractures a field surveys. Ho during the 2016 carried forward

servations of Mallards at station BBS49, 35, & 48 were bughout the field season. Additionally, incidental observations ose at stations BBS48, 49 & 51 were also recorded. These did not meet the minimum requirements to be considered

#### Figure 5B

n this habitat did not occur during the spring basking period ch and May or fall basking period between September and 16. Therefore, this habitat is treated as significant and carried e NHA EIS Report.

servations of Painted Turtles were observed during other and five Painted Turtles were observed from a vantage point ad where Mud Creek crosses on May 12 and 27. 2016,

## Figure 5C.

es and fissures were observed in this habitat during 2016 field habitat will be treated as significant and carried forward into Report.

es and fissures were observed in this habitat during 2016 field habitat will be treated as significant and carried forward into *Report*.

s and fissures were not observed in this habitat during 2016 However, fractures could be present that were undetected 16 field season. This habitat will be treated as significant and rd into the NHA EIS Report.

es and fissures were not observed in this habitat during 2016 However, fractures could be present that were undetected 16 field season. This habitat will be treated as significant and rd into the NHA EIS Report.



				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Re
		RH5	This candidate habitat is made up of RBTA1-7: Red Cedar Alvar Woodland.	~	~		✓		Deep fractures field surveys. H during the 201 significant and
		RH6	This candidate habitat is made up of RBTA1-7: Red Cedar Alvar Woodland.	N/A	N/A	N/A	N/A	N/A	The Project Loc occurs within t
Significant wildlife habitat defining criteria:• Presences of snake hibernacula used by a minimum of five individuals of snake's sp. or; individuals of two or more snake spp.• Congregations of a minimum of five individuals of a snake sp. or; individuals of two of more snake spp. near potential hibernacula (e.g. foundation or rocky slope) on sunny warm days in Spring (Apr/May) and Fall (Sept/Oct)• If there is a Special Concern Species present, then site is SWHWildlife species to be considered: • Eastern Gartersnake • Northern Watersnake • Northern Red-bellied Snake• Northern Ring-necked Snake	RH7	This candidate habitat is made up of RBTA1-7: Red Cedar Alvar Woodland; RBOA1-1: Dry Lichen – Moss Open Alvar Pavement; RBOA1-4: Dry – Fresh Poverty Grass Open Alvar Meadow	V	~		¥		Deep fractures surveys. This ha the NHA EIS Re	
	<ul> <li>Eastern Gartersnake</li> <li>Northern Brownsnake</li> <li>Smooth Green Snake</li> </ul>	RH8	This candidate habitat is made up of RBOA1: Open Alvar Rock Barren; RBTA1- 7 : Red Cedar Alvar Woodland; RBTB1-1: Red Cedar Treed Alvar.	~	~		~		Deep fractures surveys. This h the NHA EIS Re
	<ul> <li><u>Species of Conservation Concern:</u></li> <li>Eastern Ribbonsnake</li> <li>Five-line Skink</li> </ul>	RH9	This candidate habitat is made up of RBSA1: Alvar Shrub Rock Barren.	~	~		✓		Deep fractures surveys. This ha the NHA EIS Re
		RH10	This candidate habitat is made up of RBSA1: Alvar Shrub Rock Barren.	~	~		~		Deep fractures surveys. This hat the NHA EIS Re
		RH11	This candidate habitat is made up of RBTA1-7 : Red Cedar Alvar Woodland; RBSA1 : Alvar Shrub Rock Barren	✓	~		✓		Deep fractures surveys. This ha the NHA EIS Re
		RH12	This candidate habitat is made up of RBTA1-7: Red Cedar Alvar Woodland; RBSA1: Alvar Shrub Rock Barren.	~	~		✓		Deep fractures field surveys. H during the 201 carried forward
		RH13	This candidate habitat is made up of RBTA1-7 : Red Cedar Alvar Woodland.	✓	~		~		Deep fractures alternative field carried forward

s and fissures were not observed in this habitat during 2016 However, fractures could be present that were undetected 16 field season. As such, this habitat will be treated as d carried forward into the NHA EIS Report.

ocation boundary has been revised. This habitat no longer the Project Location boundary or 50 m setback distance.

s and fissures were observed in this habitat during 2016 field habitat will be treated as significant and carried forward into *report*.

s and fissures were observed in this habitat during 2016 field nabitat will be treated as significant and carried forward into *eport*.

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s and fissures were not observed in this habitat during 2016 However, fractures could be present that were undetected 16 field season. This habitat will be treated as significant and rd into the NHA EIS Report.

s and fissures were observed in this habitat during 2016 ld surveys. This habitat will be treated as significant and rd into the NHA EIS Report.



				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Re
		RH14	This candidate habitat is made up of RBTA1-7: Red Cedar Alvar Woodland.	~	~		~		Deep fractures alternative field undetected dur significant and o
Reptile Hibernaculum <i>(con'd)</i>		RH15	This candidate habitat is made up of FOCM2-2: White Cedar Coniferous Forest	✓	~		~		Deep fractures a surveys. This ha the NHA EIS Rep
		RH16	This candidate habitat is made up of FOCM2-2: White Cedar Coniferous Forest	✓	~		~		Deep fractures a surveys. This ha the NHA EIS Rep
		ID	ELC*						
Colonially Nesting Bird Breeding	Nests in live or dead standing trees in wetlands, lakes, islands and peninsulas. Shrubs and occasionally emergent vegetation may also be used. Most nests in trees are 11 to 15 m from ground, near the top of the tree. This habitat can be found in any of the following community types: Mixed Swamp (SWM); Deciduous Swamp (SWD), Coniferous Swamp (SWC).	CNT1	This candidate habitat is made up of SWDO2-3: Swamp Maple Organic Deciduous Swamp.		~		~		This habitat con 26, 27 & 110 su species to be co incidental obser on May 23, 201 Complex PSW), nesting and the provide optimal 3 to 6 km of for Note: Based on evaluated prior in the NHA EIS.
Habitat Tree & Shrubs)	<ul> <li><u>Significant wildlife habitat defining criteria:</u></li> <li>Presence of 5 of more active nests of Great Blue Heron or other listed species</li> </ul>	CNT2	This candidate habitat is made up of SWDO2-3: Swamp Maple Organic Deciduous Swamp; SWDM2-2: Green Ash Deciduous Swamp.		✓			✓	This habitat con surveyed on Ma were observed considered sign
	Wildlife species to be considered:• Great Blue Heron• Great Egret• Black-crowned Night-heron• Green Heron	CNT3	This candidate habitat is made up of SWDO2-3: Swamp Maple Organic Deciduous Swamp.	✓	V			√	This habitat cor surveyed on Ma 27, June 14 & 2 during the 2016 Blue Heron was considered sign It should be not

s and fissures were not observed in this habitat during 2016 Id surveys. However, fractures could be present that were uring the 2016 field season. This habitat will be treated as d carried forward into the NHA EIS Report.

s and fissures were observed in this habitat during 2016 field habitat will be treated as significant and carried forward into *report*.

s and fissures were observed in this habitat during 2016 field habitat will be treated as significant and carried forward into *report*.

#### Figure 5D

onsists of diurnal breeding bird survey stations BBS13, 14, 24, surveyed on May 23, June 7, 8, 17 & 20 2016. No wildlife considered were observed during the 2016 field surveys. One servation of a fly-over Great Blue Heron was made at BBS40 016. As permission was not attainable for CNT1 (Hinch Swamp ), it is assumed that habitat could exist for Great Blue Heron herefore this habitat will be treated as significant. PSW's hal foraging habitat. Most breeding colonies are located within braging areas.

on access permissions, this habitat will not be further for to construction and the habitat will be treated as significant S.

onsists of diurnal breeding bird survey stations BBS34 May 23, June 8 and 20. No wildlife species to be considered d during the 2016 field surveys. Therefore this habitat is not gnificant.

onsists of diurnal breeding bird survey stations BBS36, 37 & 38 May 23, June 8 and 20 as well as BBS41, 42, 43 & 53 on May 28. No wildlife species to be considered were observed 16 field surveys. An incidental observation of a fly-over Great as recorded on May 27 at station BBS52. This habitat is not gnificant.

oted that the greater Mud Creek PSW may provide habitat in beyond the Project Location.



				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Rel
		CNT4	This candidate habitat is made up of SWDO2-3: Swamp Maple Organic Deciduous Swamp; SWDM4-5 : Poplar Deciduous Swamp ; SWCO1-1 : White Cedar Coniferous Swamp.	~	~			✓	This habitat consurveyed on Ma Heron was obse observed in the
		CNT5	This candidate habitat is made up of SWDM4-5: Poplar Deciduous Swamp.	~	~			~	This habitat cons surveyed on Ma Heron was obse observed in the
		CNT6	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.	~	~			~	This habitat cons surveyed on Ma Heron was obse observed in the
Colonially Nesting Bird Breeding		CNT7	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.	N/A	N/A	N/A	N/A	N/A	The Project Loca occurs within th
Habitat (Tree & Shrubs) <i>(con'd)</i>		CNT8	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.	N/A	N/A	N/A	N/A	N/A	The Project Loca occurs within th
		CNT9	This candidate habitat is made up of SWDM2-1: Black Ash Deciduous Swamp.		V		~		No diurnal breed lack of access pe significant and c Note: Based on a evaluated prior significant.
		CNT10	This candidate habitat is made up of SWDM4: Deciduous Swamp.		1		~		No diurnal breed lack of access per significant and c Note: Based on a evaluated prior significant.
		CNT11	This candidate habitat is made up of SWDM4: Deciduous Swamp.		V		V		No diurnal breed lack of access pe significant and c Note: Based on evaluated prior significant.

onsists of diurnal breeding bird survey stations BBS54 – BBS90 May 30, 31, June 2, 3, 7, 9, 10, 16, 21, 27 & 30. One Great Blue Iserved on June 27, 2016, at stations BBS68. No nests were the habitat. This habitat is not considered significant.

onsists of diurnal breeding bird survey stations BBS54 – BBS90 May 30, 31, June 2, 3, 7, 9, 10, 16, 21, 27 & 30. One Great Blue preved on June 27, 2016, at stations BBS68. No nests were the habitat. This habitat is not considered significant.

onsists of diurnal breeding bird survey stations BBS54 – BBS90 May 30, 31, June 2, 3, 7, 9, 10, 16, 21, 27 & 30. One Great Blue served on June 27, 2016, at stations BBS68. No nests were ne habitat. This habitat is not considered significant.

bcation boundary has been revised. This habitat no longer the Project Location boundary or 50 m setback distance.

ocation boundary has been revised. This habitat no longer the Project Location boundary or 50 m setback distance.

eeding bird surveys were conducted in this habitat due to a permission. Therefore this habitat will be treated as d carried forward to the *NHA EIS Report*. In access permissions, this habitat will not be further for to construction and the habitat will be treated as

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				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Habitat Composition: Attributes, Condition, and Function		Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	R
		CNT12	This candidate habitat is made up of SWDM3-3: Swamp Maple Deciduous Swamp	N/A	N/A	N/A	N/A	N/A	The Project Loo occurs within t
		CNT13	This candidate habitat is made up of SWDM3-3: Swamp Maple Deciduous Swamp	N/A	N/A	N/A	N/A	N/A	The Project Lo occurs within t
olonially Nesting Bird Breeding		CNT14	This candidate habitat is made up of SWDM3-3: Swamp Maple Deciduous Swamp	N/A	N/A	N/A	N/A	N/A	The Project Loo occurs within t
		CNT15	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.	~	~		~		
		CNT16	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.	~	~		~		
Habitat Tree & Shrubs) <i>(con'd)</i>		CNT17	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.	~	~		~		No diurnal bre CNT15-21 due treated as sigr
		CNT18	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.		~		~		Note: Based of evaluated prio significant.
		CNT19	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.		~		~		
		CNT20	This candidate habitat is made up of SWDM3-3: Swamp Maple Deciduous Swamp	~	~		~		
		CNT21	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.		~		~		

bocation boundary has been revised. This habitat no longer the Project Location boundary or 50 m setback distance.

ocation boundary has been revised. This habitat no longer the Project Location boundary or 50 m setback distance.

bocation boundary has been revised. This habitat no longer the Project Location boundary or 50 m setback distance.

eeding bird surveys were conducted in habitats identified as to a lack of access permission. Therefore this habitat will be nificant and carried forward to the NHA EIS Report.

on access permissions, this habitat will not be further or to construction and the habitat will be treated as



				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Re
		CNT22	This candidate habitat is made up of SWDM3-3: Swamp Maple Deciduous Swamp		√		~		
		CNT23	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.		✓		~		No diurnal bree CNT22-25 due t treated as signi
		CNT24	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.		✓		~		Note: Based on evaluated prior significant.
		CNT25	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.		✓		~		
olonially Nesting Bird Breeding Habitat (Tree & Shrubs) (con'd)	CNT26	This candidate habitat is made up of SWDM2-1: Black Ash Deciduous Swamp.	✓	✓		~		No diurnal bree lack of access p assumed that h therefore this h Note: Based on evaluated prior significant.	
	CNT27	This candidate habitat is made up of SWDM2-1: Black Ash Deciduous Swamp.		✓		✓		No diurnal bree lack of access p assumed that h therefore this h Note: Based on evaluated prior significant.	
		CNT28	This candidate habitat is made up of SWDM2-2: Green Ash Deciduous Swamp.		V		~		No diurnal bree lack of access p significant and Note: Based on evaluated prior significant.

eeding bird surveys were conducted in habitats identified as to a lack of access permission. Therefore this habitat will be nificant and carried forward to the NHA EIS Report.

on access permissions, this habitat will not be further or to construction and the habitat will be treated as

eeding bird surveys were conducted in this habitat due to a permission. As this habitat is located on Pennell's Creek, it is habitat could exist for Great Blue Heron nesting and habitat will be treated as significant. on access permissions, this habitat will not be further

or to construction and the habitat will be treated as

eeding bird surveys were conducted in this habitat due to a permission. As this habitat is located on Pennell's Creek, it is habitat could exist for Great Blue Heron nesting and habitat will be treated as significant. on access permissions, this habitat will not be further or to construction and the habitat will be treated as

eeding bird surveys were conducted in this habitat due to a permission. Therefore this habitat will be treated as d carried forward to the *NHA EIS Report*. In access permissions, this habitat will not be further for to construction and the habitat will be treated as

DILLON

				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	
		ID	ELC*						
	Nesting colonies of gulls and terns on islands or peninsulas associated with open water or in marshy areas. Brewer's Blackbird colonies are found loosely on the ground in low bushes in close proximity to streams and irrigation ditches within farm lands. Any rocky island or peninsula	CNG1	This candidate habitat is made up of MASO1-1: Cattail Shallow Marsh; OAGM4: Open Pasture.	~	~			~	
	within a lake or large river, in close proximity to watercourses in open fields or pastures with scattered trees or shrubs found in any of the following Community Types: Meadow Marsh (MAM), Shallow Marsh	CNG2	This candidate habitat is made up of MEMM3: Mixed Meadow.	N/A	N/A	N/A	N/A	N/A	
	(MAS), Meadow (ME), Thicket (TH), Savannah (SV).	CNG3	This candidate habitat is made up of MEMM4: Mixed Meadow; MASO1-1 : Cattail Marsh.	~	~			~	
	<ul> <li>Ine presence of 5 or more pairs for Brewer's Blackbird.</li> <li>Any active pesting colony of one or more Little Gull and Great-black</li> </ul>	CNG4	This candidate habitat is made up of MEMM4: Mixed Meadow.	✓	✓			~	Species of Project Loc terns or Br
		CNG5	This candidate habitat is made up of MEMM4: Mixed Meadow.	✓	~			~	surveys. One obser BBS94. Ha
Bird Breeding bitat (Ground)		CNG6	This candidate habitat is made up of MEMM3: Mixed Meadow.		~			✓	Project Loo have been Note: Whe habitat no setback dis
		CNG7	This candidate habitat is made up of MEFM4: Forb Meadow; MEGM4: Graminoid Meadow.	✓	~			~	
• • <u>Sp</u>		CNG8	This candidate habitat is made up of MEMM4: Mixed Meadow; MEMR2: Bedrock Mixed Meadow.		V			~	
	Species of Conservation Concern: Black Tern Black Tern	CNG9	This candidate habitat is made up of MEMR2: Bedrock Mixed Meadow.		~			~	
		CNG10	This candidate habitat is made up of MEMM3: Mixed Meadow.		~			~	
		CNG11	This candidate habitat is made up of MEMM3: Mixed Meadow.		~			~	

ns and gulls were identified in the general area of the Loyalist ion through screening of background material, however, no ver's Blackbirds were observed during diurnal breeding bird

tion of a fly-over Herring Gull occurred on June 14, 2016, at at-specific to gull nesting was not identified in the Loyalist ion or surrounding 50 m. As such, candidate habitat areas *r*aluated as not significant.

N/A is indicated under "Not Significant", this indicates the nger occurs within the Project Location boundary or 50 m nce.



				Loc	ation		Status	1	
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	R
		CNG12	This candidate habitat is made up of MEMM3: Mixed Meadow.	✓	~			✓	
		CNG13	This candidate habitat is made up of MEMM3: Mixed Meadow.	~	✓			~	
Colonially Nesting Bird Breeding Habitat (Ground)		CNG14	This candidate habitat is made up of OAGM2: Perennial Cover Crop.	N/A	N/A	N/A	N/A	N/A	One observati BBS94. Habita Project Locatio have been eva
(con'd)		CNG15	This candidate habitat is made up of OAGM2: Perennial Cover Crop.	N/A	N/A	N/A	N/A	N/A	Note: Where N habitat no lon
		CNG16	This candidate habitat is made up of OAGM4: Open Pasture.	✓	~			~	setback distar
Rare Vegetation Co	ommunities								
	An Alvar is typically a level, mostly unfractured calcareous bedrock	ID	ELC*						
	feature with a mosaic of rock pavements and bedrock overlain by a thin veneer of soil. The hydrology of Alvar is complex, with alternating periods of inundation and drought. This habitat is associated with any of the following ELC communities: ALO1(Open Alvar Rock Barren Ecosite), ALS1 (Alvar Shrub Rock	ALV1	This candidate habitat is made up of FOCM2-2 : White Cedar Coniferous Forest.	V	~			✓	No Alvar indic observed with community is S2 or S3). This minimum req
	Barren Ecosite), ALT1 (Treed Alvar Rock Barren Ecosite), FOC1 (Dry Pine Calcareous Shallow Coniferous Forest Ecosite), FOC2 (Dry Cedar Calcareous Shallow Coniferous Forest Ecosite), CUM2 (Bedrock Cultural Meadow Ecosite), CUS2 (Bedrock Cultural Savannah Ecosite), CUT2-1 (Common Juniper Cultural Alvar Thicket Type),	ALV2	This candidate habitat is made up of FOCM2-2: White Cedar Coniferous Forest.	V	~			√	No Alvar indic observed with community is S2 or S3). This minimum req
Alvar	<ul> <li>CUW2 (Bedrock Cultural Woodland Ecosite) that are &gt;0.5 ha in size.</li> <li>Significant wildlife habitat defining criteria:</li> <li>Field studies that identify four of the five Alvar Indicator Species at a Candidate Alvar site are Significant.</li> </ul>	ALV3	This candidate habitat is made up of FOCM2-2: White Cedar Coniferous Forest; MEMR2: Bedrock Mixed Meadow	V	~			V	No Alvar indic observed with community is or S3). This ha minimum requ
	<ul> <li>Site must not be dominated by exotic or introduced species (&lt;50% vegetative cover area exotic sp.)</li> <li>The Alvar must be in excellent condition and fit in with surrounding landscape with few conflicting land uses</li> </ul>	ALV4	This candidate habitat is made up of FOCS3-1: White Cedar Bedrock Coniferous Forest; RBTA1- 7: Red Cedar Alvar Woodland.	~	V			•	No Alvar indic observed with community is or S3). This ha minimum requ

ion of a fly-over Herring Gull occurred on June 14, 2016, at it-specific to gull nesting was not identified in the Loyalist on or surrounding 50 m. As such, candidate habitat areas aluated as not significant.

N/A is indicated under "Not Significant", this indicates the oger occurs within the Project Location boundary or 50 m nce.

## Figure 5E.

ator species or Species of Conservation Concern were nin this habitat during 2016 field surveys. Further, this not identified as a rare vegetation community (SRank of S1, s habitat is not considered significant as it did not meet the uirements of the defining criteria.

ator species or Species of Conservation Concern were nin this habitat during 2016 field surveys. Further, this not identified as a rare vegetation community (SRank of S1, s habitat is not considered significant as it did not meet the uirements of the defining criteria.

ator species or Species of Conservation Concern were hin this habitat during 2016 field surveys. Further, this not identified as a rare vegetation community (SRank of S1, S2 abitat is not considered significant as it did not meet the uirements of the defining criteria.

ator species or Species of Conservation Concern were hin this habitat during 2016 field surveys. Further, this not identified as a rare vegetation community (SRank of S1, S2 abitat is not considered significant as it did not meet the uirements of the defining criteria.



				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	
	Alvar Indicator Plants:1. Carex crawei2. Panicum philadelphicum3. Eleocharis compressa4. Scutellaria parvula5. Trichostema brachiatum	ALV5	This candidate habitat is made up of RBTA1-7: Red Cedar Alvar Woodland.	V	1			✓	No Alvar vegetatio surveys. minimun
<ul> <li><u>Provincially Rare Vegetation Communities of Special Concern listed</u> in <u>Appendix M of the SWHTG:</u></li> <li>Dry Lichen – Moss Open Alvar Pavement Type (ALO1-1)</li> <li>Red Cedar Early Buttercup Treed Alvar Type (ALT1-5)</li> <li>Common Juniper Shrub Alvar Type (ALS1-1)</li> <li>Dry-Fresh Poverty Grass Open Alvar Meadow (ALO1-4)</li> </ul>	ALV6	This candidate habitat is made up of FOCS3-1: White Cedar Bedrock Coniferous Forest; RBSA1- 1: Common Juniper Shrub Alvar.	~	V	¥			A Provin Appendi ELC poly such this has beer Commur Within th indicator 2016 fiel	
Alvar (con'd)	<ul> <li><u>Species of Conservation Concern:</u></li> <li>Tiny Mouse-tail</li> <li>Second Rush/ One-sided Rush</li> <li>Few-fruited Sedge</li> <li>Carolinia Whitlow-grass/ Creeping Draba</li> </ul>	ALV7	This candidate habitat is made up of FOCS3-1: White Cedar Bedrock Coniferous Forest.	~	~			✓	No Alvai observe commu S2 or S3 minimu
		ALV8	This candidate habitat is made up of RBTA1-7: Red Cedar Alvar Woodland; FOCS3-1: White Cedar Bedrock Coniferous Forest; Cultural Alvar.	~	~			~	One Alva habitat. Commu habitat i requiren agricultu were pre
		ALV9	This candidate habitat is made up of FOCS3-1: White Cedar Bedrock Coniferous Forest.	N/A	N/A	N/A	N/A	N/A	The Proj occurs w
		ALV10	This candidate habitat is made up of FOCM2-2: White Cedar Coniferous Forest; FOCS3-1: White Cedar Bedrock Coniferous Forest.	N/A	N/A	N/A	N/A	N/A	The Proj occurs w

ator species, species of Special Concern or Provincial Rare mmunities existed within this habitat during 2016 field habitat is not considered significant as it did not meet the uirements of the defining criteria.

Rare Vegetation Community of Special Concern (listed in f the SWHTG) ALS1-1 exists within this habitat (specifically 9-1: See Figure 4 in the *NHA Site Investigation Report*). As tat has been refined to include only this rare community and uated as significant as an "Other Rare Vegetation as per the Ecoregion 6E Criteria Schedule (MNRF 2015).

mainder of the delineated candidate habitat, no alvar species of conservation concern were observed during the veys and therefore is not considered significant.

ator species or Species of Conservation Concern were in this habitat during 2016 field surveys. Further, this not identified as a rare vegetation community (SRank of S1, s habitat is not considered significant as it did not meet the uirements of the defining criteria.

icator species, Flat-stemmed Spike Rush was observed in this becies of conservation concern or Provincial Rare vegetation existed within this habitat during 2016 field surveys. This considered significant as it did not meet the minimum of the defining criteria, it is heavily disturbed by cattle and ractices as well as a high concentration of invasive species during spring and fall surveys.

ocation boundary has been revised. This habitat no longer the Project Location boundary or 50 m setback distance.

ocation boundary has been revised. This habitat no longer the Project Location boundary or 50 m setback distance.



				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Rel
		ALV11 Revised to Carolina Whitlow Grass Habitat	This candidate habitat is made up of RBTA1-7: Red Cedar Alvar Woodland; RBTB1-1: Red Cedar Calcareous Treed Alvar; Cultural Alvar.	✓	✓	✓			A Provincially Ra SWHTG) Carolina (specifically ELC <i>Report</i> ). This obs <b>Table 3</b> when a the However, the sn species (up to fiv significant for "S forward into the The entire alvar disturbed by cat concentration of surveys.
Alvar (con'd)		ALV12	This candidate habitat is made up of RBTA1-7: Red Cedar Alvar Woodland; RBTB1-1: Red Cedar Treed Alvar.	~	V			~	Three alvar India brachiatum and habitat; therefor considered signi Rare vegetation surveys. This ha minimum requir cattle and agricu species were pre
		ALV13	This candidate habitat is made up of RBSA1 : Alvar Shrub Rock Barren	✓	~			V	No Alvar indicate observed within community is no S2 or S3). This h minimum requir
		ALV14	This candidate habitat is made up of RBSA1 : Alvar Shrub Rock Barren	✓	~			~	No Alvar indicate observed within community is no S2 or S3). This h minimum requir
		ALV15	This candidate habitat is made up of RBSA1: Alvar Shrub Rock Barren; RBTB1- 7: Red Cedar Alvar Woodland; MEMR2: Bedrock Mixed Meadow.	✓	1			1	Three alvar Indic brachiatum and habitat, howeve significant habit vegetation Com surveys. This ha minimum requir

Rare Species of Special Concern (listed in Appendix G of the lina Whitlow-grass was reported to occur in this habitat LC polygon 51-17: See Figure 4 in the *NHA Site Investigation* observation was not verified by the biologists identified in a return field visit occurred with the original observer. small area of ALV11 (approximately 5 m \* 5 m) where this five individual plants) was observed will be considered "Species of Conservation Concern Habitat" and carried the *NHA EIS Report*.

ar polygon is not determined to be significant as it is heavily cattle and agricultural practices as well as a high of invasive species were present during spring and fall

dicator species (*Eleocharis compressa, Trichostema* and *Panicum philadelphicum*) were observed within this fore this habitat does not meet the minimum criteria to be gnificant habitat. No species of Special Concern or Provincial on Communities existed within this habitat during 2016 field habitat is not considered significant as it did not meet the uirements of the defining criteria, it is heavily disturbed by icultural practices as well as a high concentration of invasive present during spring and fall surveys.

ator species or Species of Conservation Concern were in this habitat during 2016 field surveys. Further, this not identified as a rare vegetation community (SRank of S1, s habitat is not considered significant as it did not meet the uirements of the defining criteria.

ator species or Species of Conservation Concern were in this habitat during 2016 field surveys. Further, this not identified as a rare vegetation community (SRank of S1, s habitat is not considered significant as it did not meet the uirements of the defining criteria.

dicator species(*Eleocharis compressa, Trichostema* and *Panicum philadelphicum*) were observed within this ver this did not meet the minimum criteria to be considered bitat. No species of conservation concern or Provincial Rare mmunities existed within this habitat during 2016 field habitat is not considered significant as it did not meet the uirements of the defining criteria.



			Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat	Habitat Composition: Attributes Condition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	I
		ALV16 This candidate habitat is made up of Cultural Alva RBTA1-7: Red Cedar Alva Woodland; SAGM6: Shru Pasture; MEMR2: Bedroc Mixed Meadow	; r ✓	·			~	Three alvar Ir brachiatum a habitat, howe significant ha vegetation Co surveys. This minimum req cattle and ag species were
		ALV17 This candidate habitat is made up of RBTA1-7: Re Cedar Alvar Woodland; Cultural Alvar.		¥			✓	No Alvar India Rare vegetati surveys. This minimum req cattle and aga species were
Alvar (con'd)		This candidate habitat is ALV18 made up of MEMR2: Bedrock Mixed Meadow	$\checkmark$	~			V	No Alvar Indi Rare vegetati surveys. This minimum rec
		This candidate habitat is ALV19 made up of MEMR2: Bedrock Mixed Meadow	$\checkmark$	~			V	No Alvar Indi Rare vegetati surveys. This minimum rec
		This candidate habitat is ALV20 made up of MEMR2: Bedrock Mixed Meadow	$\checkmark$	~			~	No Alvar Indivegetation Co surveys. This minimum rec
		ALV21 ALV21		~	~			Three Proving in Appendix N and ALT1-5 (s on Figure 4d of the habitat NHA EIS Repo 6E Criteria Sc

dicator species (*Eleocharis compressa*, *Trichostema* and *Panicum philadelphicum*) were observed within this ever this did not meet the minimum criteria to be considered bitat. No species of conservation concern or Provincial Rare ommunities existed within this habitat during 2016 field habitat is not considered significant as it did not meet the uirements of the defining criteria, it is heavily disturbed by ricultural practices as well as a high concentration of invasive present during spring and fall surveys.

cator species, species of conservation concern or Provincial on Communities existed within this habitat during 2016 field habitat is not considered significant as it did not meet the uirements of the defining criteria, it is heavily disturbed by ricultural practices as well as a high concentration of invasive present during spring and fall surveys.

cator species, species of conservation concern or Provincial on Communities existed within this habitat during 2016 field habitat is not considered significant as it did not meet the uirements of the defining criteria.

ator species, species of conservation concern or Provincial on Communities existed within this habitat during 2016 field habitat is not considered significant as it did not meet the uirements of the defining criteria.

ator species, conservation concern or Provincial Rare mmunities existed within this habitat during 2016 field habitat is not considered significant as it did not meet the uirements of the defining criteria.

cially Rare Vegetation Communities of Special Concern (listed A of the SWHTG) exists within this habitat. AL01-1, AL01-4 ee ELC polygon 47-1 [includes ALT1-5 as an inclusion] & 73-1 n the *NHA Site Investigation Report*). As such these portions are considered significant and will be carried forward into the *rt* (see "Other Rare Vegetation Communities" in the Ecoregion hedule (MNRF 2015)).



				Loc	ation		Status		_
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Re
		ID							
		OG1	Please refer to Table 6 for Vegetation Communities associated with Woodland AD	✓	~			~	
		OG2	Please refer to Table 6 for Vegetation Communities associated with Woodland AP	✓	~			✓	
Old Growth Forests are characterized by heavy mortality or turnover of over-storey trees resulting in a mosaic of gaps that encourage development of a multi-layered canopy and an abundance of snags and downed woody debris. Stands $\geq$ 30 ha with at least 10 ha interior	OG3	Please refer to Table 6 for Vegetation Communities associated with Woodland BD		~			•	During ELC class	
Old Growth Forest	assuming 100 m buffer at edge of forest, and are associated with the following Community Types: FOD (Deciduous Forest), FOM (Mixed Forest), FOC (Coniferous Forest). The stand will have experienced no recognizable forestry activities. Forests with a wide range of tree	OG4	Please refer to Table 6 for Vegetation Communities associated with Woodland BM	✓	~			✓	access was prov occur in the larg projections of w that bisects a w <i>Investigation Re</i>
	sizes, uneven canopy and canopy gaps, abundant fallen logs in varying states of decomposition, trees in older age classes (often 50- 140 years;).	OG5	Please refer to Table 6 for Vegetation Communities associated with Woodland DB	✓	~			~	such, this habita
		OG6	Please refer to Table 6 for Vegetation Communities associated with Woodland L	✓	V			~	
		OG7	Please refer to Table 6 for Vegetation Communities associated with Woodland I	✓	~			~	

assification, areas of the woodlands were surveyed were rovided. It is assumed that Old Growth characteristics may arger woodland areas. Within the Project Location, if woodlands or the area within the proposed connection line a woodland (see OG1 on Figure 7G in the *NHA Site Report*) did not includes trees greater than 140 years old. As bitat was determined to not be significant as old growth forest.



				Loc	ation		Status	1	_
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, dition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	
ecialized Habi	tat for Wildlife				 				
		ID							
	Lipland habitats of any kind located adjacent to a wetland. The	WNA1	This candidate habitat is made up of Deciduous Swamp; Deciduous Forest, and Mixed Forest.	~	~			✓	Diurnal br BBS08 & ( during the
Upland habitats of any kind located adjacent to a wetland. The upland areas should be at least 120 m wide so predators have difficulty finding nests. The extent of the habitat extends 120 m from a wetland >0.5 ha or any small wetland within 120 m of a cluster of 3 or more smaller wetlands (<0.5 ha) within 120 m of each other where waterfowl nesting occurs. Wood ducks and hooded mergansers utilize large diameter trees (>40 cm dB) in woodlands for cavity nest sites.Significant wildlife habitat defining criteria: • Presence of 3 of more nesting pairs for listed species excluding Mallard, or; • Presence of 10 or more nesting pair for listed species including Mallard; • Any active nesting site of an American Black Duck is considered significant; Wildlife species to be considered: • American Black Duck • Northern Pintail • Northern Shoveler • Gadwall • Blue-winged Teal • Green-winged Teal • Wood Duck • Hooded Merganser • Mallard Species of Conservation Concern: • Canvasback	upland areas should be at least 120 m wide so predators have difficulty finding nests. The extent of the habitat extends 120 m from a wetland >0.5 ha or any small wetland within 120 m of a cluster of 3 or more smaller wetlands (<0.5 ha) within 120 m of each other where waterfowl nesting occurs. Wood ducks and hooded mergansers utilize large diameter trees (>40 cm dB) in woodlands for cavity nest sites. <u>Significant wildlife habitat defining criteria:</u>	WNA2	This candidate habitat is made up of Deciduous Swamp, Coniferous Forest, and Cultural Meadow.	~	~		V		Diurnal b BBS13, 14 Duck was attainable assumed habitat w Note: Bas evaluated significan
	WNA3	This candidate habitat is made up of Deciduous Swamp, and Cultural Meadow.	~	~			√	Diurnal b BBS15 & observat at BBS16 minimum not signif	
	<ul> <li>American Black Duck</li> <li>Northern Pintail</li> <li>Northern Shoveler</li> <li>Gadwall</li> <li>Blue-winged Teal</li> <li>Green-winged Teal</li> <li>Wood Duck</li> <li>Hooded Merganser</li> <li>Mallard</li> <li>Species of Conservation Concern:</li> <li>Canvasback</li> </ul>	WNA4	This candidate habitat is made up of Cultural Woodland, Coniferous Woodland, and Deciduous Swamp.	V	✓		V		This habi surveyed & 28. As a Mallarc eight inci recorded field seas (Mud Cre nesting a Note: Bas evaluated significan
	• Redhead	WNA5	This candidate habitat is made up of Coniferous Forest, Deciduous Swamp, and Deciduous Forest.	✓	✓			✓	Diurnal b BBS54 – I Mallard e at BBS61 habitat te considere

## Figure 5F

ing bird surveys were conducted at point count stations n May 31, June 10 & 21. No waterfowl species were observed veys. Therefore the habitat is not considered significant.

ing bird surveys were conducted at point count stations , 26, 27 & 110 on May 23, June 7, 8, 17 & 20 2016. One Wood erved on May 23, 2016, at BBS14. As permission was not the full extent of WNA2 (Hinch Swamp Complex PSW), it is habitat could exist for Waterfowl nesting and therefore this e treated as significant.

n access permissions, this habitat will not be further or to construction and the habitat will be treated as

ing bird surveys were conducted at point count stations n May 23, June 7, 8, 17 & 20 2016.Four incidental of Mallards were recorded on May 23 at BBS19 & 21; June 7 June 17 at BBS18.These observations do not meet the sence of 10 or more nesting pairs and therefore this habitat is

binsists of diurnal breeding bird survey stations BBS36, 37 & 38 May 23, June 8 and 20; BBS41, 42, 43 & 53 on May 27, June 14 as BBS18 & 19 on May 23, June 7 and 17. One observation of Wood Duck was recorded on June 17 at BBS18. Additionally, al observations of Mallards (7) and Wood Ducks (1) were ose proximity to WNA4 (Mud Creek PSW) during the 2016 As permission was not attainable for the full extent of WNA4 SW), it is assumed that habitat could exist for Waterfowl herefore this habitat will be treated as significant.

n access permissions, this habitat will not be further or to construction and the habitat will be treated as

ing bird surveys were conducted at point count stations 0 on May 30, 31, June 2, 3, 7, 9, 10, 16, 21, 27 & 30. One iting aggressive territorial behaviour was observed on May 30 observed does not meet the minimum requirements for considered significant. Therefore, this habitat is no gnificant.



				Loc	ation		Status		_
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		omposition: Attributes, dition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	R
		WNA6	This candidate habitat is made up of Cultural Thicket, Deciduous Swamp, and Coniferous Forest.	√	~			V	Diurnal breed BBS82-90 on J observed duri significant as i
Waterfowl Nesting Area <i>(con'd)</i>		WNA7	This candidate habitat is made up of Deciduous Forest, Cultural Meadow, and Deciduous Swamp.		~		~		Diurnal breedi BBS104-108 o on June 1 at B WNA7 (Penne Waterfowl nes Note: Based o evaluated pric significant.
		ID							
		BEOS1	Please refer to Table 6 for Vegetation Communities associated with Woodland AD.	$\checkmark$	V			√	
	Nests are associated with lakes, ponds, rivers or wetlands along	BEOS2	Please refer to Table 6 for Vegetation Communities associated with Woodland AE.	V	~			V	
Bald Eagle & Osprey Nesting, Foraging and	forested shorelines, islands or on structures over water. Osprey nests are usually at the top of a tree whereas Bald Eagle nests are typically in super-canopy trees in a notch within the tree's canopy. Nests located on man-made structures are not included as significant wildlife habitat. Forest (FO) or Swamp (SW) that are immediately	BEOS3	Please refer to Table 6for Vegetation Communities associated with Woodland Bl	✓	~			V	Diurnal breed 3, 4, 8, 9, 10, Woodland AD 49-51; 53-90; bird season. B
Perching Habitat	<ul> <li>adjacent to rivers, lakes, ponds, and wetlands should be considered.</li> <li><u>Significant wildlife habitat defining criteria:</u></li> <li>One or more active Osprey or Bald Eagle nests in an area</li> </ul>	BEOS4	Please refer to Table 6for Vegetation Communities associated with Woodland BM.	✓	V			V	surveys. In ad woodland are nests were idd considered sig
		BEOS5	Please refer to Table 6for Vegetation Communities associated with Woodland BS.	~	V			√	
		BEOS6	Please refer to Table 6for Vegetation Communities associated with Woodland BT.	~	V			V	

ding bird surveys were conducted at point count stations June 3, 10, 16, 21, 24 & 28. No Waterfowl species were ring field surveys. Therefore, this habitat is not considered it did not meet the minimum requirements to be considered.

ding bird surveys were conducted at point count stations on June 1, 15 & 30. Two Wood Duck fly-overs were observed BBS105. As permission was not attainable for the full extent of ell's Creek PSW), it is assumed that habitat could exist for esting and therefore this habitat will be treated as significant. on access permissions, this habitat will not be further or to construction and the habitat will be treated as

Aing bird surveys were conducted on May 23, 30, 31, June 1, 2, 14, 15, 16, 20, 21, 24, 27, 28, 30 and July 7 2016 within D, AE, BM, CY, I and EA (BBS 13, 14, 24, 26, 27, 36-38; 41, 46, 95-97, 101, 104, 105, 108, & 110) during the 2016 breeding Bald Eagle and Osprey were not observed during these Idition to diurnal breeding bird surveys, during surveys of eas before leaf out occurred in April /May of 2016, no stick entified. Therefore, all Candidate BEOS habitat is not gnificant.



				Loc	ation		Status		_
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, dition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	R
		BEOS7	Please refer to Table 6for Vegetation Communities associated with Woodland CY.	~	~			√	
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat (con'd)		BEOS8	Please refer to Table 6for Vegetation Communities associated with Woodland I.	V	~			~	Diurnal breed 3, 4, 8, 9, 10, 2 Woodland AD 49-51; 53-90; bird season. B surveys. In ad woodland are nests were ide considered sig
		BEOS9	Please refer to Table 6for Vegetation Communities associated with Woodland EA	✓	~			V	
		ID							
	<ul> <li>All natural or conifer plantation woodland. Forest stands &gt;30 ha with &gt;10 ha of interior habitat. Interior habitat is determined with a 200 m buffer the edge of the woodland.</li> <li><u>Significant wildlife habitat determining criteria:</u></li> <li>The presence of 1 or more active nests from species list is considered significant.</li> </ul>	WRN1	Please refer to Table 6for Vegetation Communities associated with Woodland I.	✓	¥			¥	_Diurnal breed
Woodland Raptor Nesting Area	Wildlife species to be considered: • Northern Goshawk • Cooper's Hawk • Sharp-shinned Hawk	WRN2	Please refer to Table 6for Vegetation Communities associated with Woodland AD.	V	~			V	BM (BBS13, 1 2016 breeding 3, 4, 7, 8, 9, 1 species specif Therefore, thi
	<ul> <li>Red-shouldered Hawk</li> <li>Barred Owl</li> <li>Broad-winded Hawk</li> </ul>	WRN3	Please refer to Table 6for Vegetation Communities associated with Woodland BM.	V	~			✓	

ding bird surveys were conducted on May 23, 30, 31, June 1, 2, 14, 15, 16, 20, 21, 24, 27, 28, 30 and July 7 2016 within D, AE, BM, CY, I and EA (BBS 13, 14, 24, 26, 27, 36-38; 41, 46, ; 95-97, 101, 104, 105, 108, & 110) during the 2016 breeding Bald Eagle and Osprey were not observed during these ddition to diurnal breeding bird surveys, during surveys of eas before leaf out occurred in April /May of 2016, no stick lentified. Therefore, all Candidate BEOS habitat is not ignificant.

ding bird surveys were conducted within Woodland I, AD and 14, 110, 24, 26, 27, 41, 46, 54-90, 95-97, 101 & 104) during the ng bird season on May 23, 27, 30, 31, June 1, 2, 10, 14, 15, 16, 17, 20, 21, 27, 28, 30 and July 7 2016. Wildlife fic to this habitat were not observed during these surveys. his habitat is not significant.



				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		omposition: Attributes, dition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Re
	For an area to function as a turtle nesting area, it must provide sand and gravel that turtles are able to dig in and are located in open,	ID	ELC*						
Turtle Nesting Areas	<ul> <li>sunny areas. Nesting areas on the sides of municipal or provincial road embankments and shoulders are not significant wildlife habitat. Sand and gravel beaches adjacent to undisturbed shallow weedy areas of marshes, lakes and rivers are most frequently used. Exposed mineral soil (sand or gravel) areas &lt;100 m from or within the following Community Types: Mineral or Organic Meadow Marsh (MAM or MAO), Shallow Marsh (MAS), Shallow Aquatic (SA), Open Bog (BOO), Open Fen (FEO).</li> <li><u>Significant wildlife habitat defining criteria:</u></li> <li>Presence of 5 or more nesting Midland Painted Turtles</li> <li>One or more Northern Map or Snapping Turtle nesting</li> <li>The area or collection of sites within nesting area plus a radius of 30-100 m around the nesting area, depending on habitat condition.</li> <li><u>Indicator/Species of Conservation Concern:</u></li> <li>Midland Painted Turtle</li> <li>Northern Map Turtle</li> <li>Common Snapping Turtle</li> </ul>	TNA1	This candidate habitat is made up of MASO1-1: Cattail Shallow Marsh.	V	V		✓		During Turtle Road on May observed bas Although the to lack of acce potential nest the observatio considered sig
Amphibian Breeding Habitat (Wetland)	Wetlands and pools isolated from woodlands with the presence of shrubs, logs available for calling, foraging, and escape/concealment from predators. Bullfrogs require permanent water bodies with an abundance of emergent vegetation. Associated with any of the following ELC communities: Swamp (SW), Marsh (MA), Fen (FE), Bog (BO), Open Water (OA), Shallow Aquatic (SA), including vernal pools, that are >500 m2 or 25 m in diameter, and located >120 m from woodlands.Significant wildlife habitat defining criteria:• Presence of breeding population of 1or more of the listed salamander species or 2 or more of the listed frog or toad species and with at least 20 breeding individuals (adults, juveniles, eggs/larval masses) or;• Wetland with confirmed breeding Bullfrogs is significant.Wildlife species to be considered:• Eastern Newt • Merican Toad • Spotted Salamander • Four-toed Salamander • Gray Treefrog• Northern Map Turtle • Northern Map Turtle	ABHWE1	This candidate habitat is made up of MAMM1-9: Narrow-leaved Sedge Graminoid Meadow Marsh.		~			4	ABHWE1 was si during the 2016 water was obse habitat does no significant.

## LOYALIST SOLAR LP Natural Heritage Assessment Evaluation of Significance Report - Loyalist Solar Project January 2017 – 16-3674

# Relevant Evaluation Criteria Determining Status

Figure 5G

le Surveys in 2016, Mud Creek PSW was surveyed from Rattie ay 12, 27 and June 1, 2016. A total of 10 Painted turtles were asking on May 12 and 5 were observed on May 27, 2016. The entire area was not surveyed for nesting characteristics due ccess permission and safety concerns in the wetland areas, esting habitat is assumed to occur at TNA1. Based on this and ations of sufficient numbers of turtles, this habitat is therefore significant and will carried forward into the *NHA EIS Report*.

s surveyed on April 27, 28, May 23 and 24 2016 (ABH22 & 23) D16 monitoring period; during the survey period, no standing oserved to persist through the breeding season. Therefore, this not meet the minimum requirements to be considered



				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat	Habitat Composition: Attributes, Condition, and Function		Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	R
		ID	ELC*						
	The presence of a wetland, pond or woodland pool (including vernal pools) > 500 m2 within or adjacent to (within 120 m) a woodland. Woodlands that contain permanent ponds or contain water in most	ABHWO1	Please refer to Table 6 for Vegetation Communities associated with Woodland AD	v	¥	v			This woodland (ABH17, 18, 34 times betwee were recorded considered sig
	<ul> <li>years until mid-July are most likely to be used as breeding habitat.</li> <li><u>Significant wildlife habitat defining criteria:</u></li> <li>Presence of breeding population of 1 or more of the listed newt/salamander species</li> <li>Two or more of the listed frog species with at least 20 individuals</li> </ul>	ABHWO2	Please refer to Table 6 for Vegetation Communities associated with Woodland AE & EA	¥	v	¥			This woodland This station w individuals of Frog were rec such, this hab EIS Report.
<ul> <li>Amphibian</li> <li>reeding Habitat (Woodland)</li> <li>Two or more of the listed frog species with at least 20 individuals (adults, juveniles, eggs/larval masses)</li> <li>Two or more of the listed frog species with Call Level Code 3</li> <li>Wildlife species to be considered:         <ul> <li>Eastern Newt</li> <li>Blue-spotted Salamander</li> <li>Spotted Salamander</li> <li>Gray Treefrog</li> <li>Spring Peeper</li> <li>Wood Frog</li> </ul> </li> </ul>	ABHWO3	Please refer to Table 6 for Vegetation Communities associated with Woodland B	1	1		~		This woodland woodland was Calcareous Be surrounds a W amphibian inf carried forwar Note: as the w wholly outside further evalua	
	Western Chorus Frog	ABHWO4	Please refer to Table 6 for Vegetation Communities associated with Woodland BD	¥	¥			~	This woodland & ABH18. This Spring Peeper individuals wa minimum requ Note, this deto from the Cour
		ABHWO5	Please refer to Table 6 for Vegetation Communities associated with Woodland BI	✓	~			~	This woodland ABH30 & 31. T During these s however, the does not meet
		ABHWO6	Please refer to Table 6 for Vegetation Communities associated with Woodland BM	~	~	~			This woodland ABH09, 08, 14 28, May 23 an Treefrogs on M April 27 and M were observed considered sig

#### Figure 5H

d consisted of eight amphibian breeding survey station 4, 36, 37, 38, 42 & 43). These stations were surveyed three n April 27 and June 16, 2016. During each visit, >20 individuals d of Gray Treefrog and Spring Peeper. This habitat is gnificant and carried forward into the NHA EIS Report.

d consists of one amphibian breeding survey station; ABH23. as surveyed April 28, May 24 & June 16, 2016. More than 20 Spring Peeper and two Gray Treefrog and a Northern Leopard orded, meaning at least 20 individuals were observed. As itat is considered significant and carried forward to the NHA

d did not consist of an amphibian breeding survey station. This s composed of Red Cedar Coniferous Woodland; White Cedar edrock and Oak-Hardwood Deciduous Forest. This woodland Villow Deciduous Thicket Swamp. Due to the lack of formation, this woodland will be treated as significant and rd into the NHA EIS Report.

vetland area that may support amphibian breeding is located e the Project Location boundary, this habitat will not be ited prior to construction.

d consisted of two amphibian breeding survey station; ABH17 is station was surveyed on (April 27, 28 and May 23, 2016). is were observed only on April 28; however, the number of is less than 20. As such, this habitat does not meet the uirements to be considered significant.

ermination applies to the area of habitat able to be surveyed nty Road 27 right-of-way only.

d consisted of two amphibian breeding survey stations; These stations were surveyed April 28, May 23, and June 15. surveys, Spring Peppers and Gray Treefrogs were observed, number of individuals was less than 20. As such, this habitat t the minimum requirements to be considered significant.

d consisted of seven amphibian breeding survey stations; I, 15, 16, 32 & 33.These stations were surveyed on April 27, Ind June 15, 2016. There were more than 20 individual Gray Way 23 and June 15, 2016, surveys and Spring Peepers on May 23, 2016, surveys. Additionally, 6 individual Bullfrogs d during the June 13, 2016, survey. Therefore this habitat is gnificant and carried forward to the NHA EIS Report



				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat	Habitat Composition: Attributes, Condition, and Function			Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Re
		ABHWO7	Please refer to Table 6 for Vegetation Communities associated with Woodland BS	✓	4			~	This woodland of This station was Peepers and Gra however,the nu does not meet t
		ABHWO8	Please refer to Table 6 for Vegetation Communities associated with Woodland BT	✓	~			~	This woodland of This station was Peepers and Gra the number of in meet the minim
Amphibian Breeding Habitat (Woodland) <i>(con'd)</i>		ABHWO9	Please refer to Table 6 for Vegetation Communities associated with Woodland CY	V	~		~		This woodland of woodland is cor Canary Grass M amphibians, this forward into the Note: as the we wholly outside t further evaluate
		ABHWO10	Please refer to Table 6 for Vegetation Communities associated with Woodland I	✓	V	~			This woodland c 24, 25 & 26. Thi 2016. Spring Peo visits, and the n habitat will be c
		ABHWO11	Please refer to Table 6 for Vegetation Communities associated with Woodland DZ	V	~			~	This woodland of This station was Green Frog wer individuals were minimum requi
	This habitat includes all ecosites associated with Forest (FOC, FOM &	ID	ELC*						
Woodland Area-	<ul> <li>FOD) and Swamp (SWC, SWM &amp; SWD). The habitat where interior forest breeding birds are breeding, typically mature (&gt;60 years old) forest stands or woodlots (&gt;30 ha).</li> <li><u>Significant wildlife habitat determining criteria:</u></li> <li>Presence of nesting to breeding pair of three or more of the listed wildlife species</li> <li>Any site with breeding Cerulean Warbler or Canada Warblers is to be</li> </ul>	ASBB1	Please refer to Table 6 for Vegetation Communities associated with Woodland BM	✓	V	~			Diurnal breeding BBS95- 101; 104 24, 28 and 30, 2 Blackburnian W breasted Nuthat significant and c
Sensitive Bird Breeding Habitat	<ul> <li>Any site with breeding certifican warbler of canada warblers is to be considered SWH.</li> <li>Wildlife species to be considered:</li> <li>Yellow-bellied Sapsucker</li> <li>Red-breasted Nuthatch</li> <li>Veery</li> <li>Blue-headed Vireo</li> <li>Northern Parula</li> <li>Black-throated Green Warbler</li> </ul>	ASBB2	Please refer to Table 6 for Vegetation Communities associated with Woodland AD	V	~	~			Diurnal breedin BBS54-BBS90. T 14, 16, 21, 27, 2 included Blackb Red-breasted N bellied Sapsucke into the NHA El

d consisted of one amphibian breeding survey station; ABH11. vas surveyed on April 27, May 23 and June 15, 2016. Spring Gray Treefrogs were observed during station visits, number of individuals were less than 10. As such, this habitat et the minimum requirements to be considered significant.

Id consisted of one amphibian breeding survey station; ABH11. vas surveyed on April 27, May 23 and June 15, 2016. Spring Gray Treefrogs were observed during station visits, however, of individuals were less than 10. As such, this habitat does not himum requirements to be considered significant.

d did not consist of an amphibian breeding survey station. This composed of Black Ash Deciduous swamp and border a Reed Meadow Marsh. As habitat is available for breeding this woodland will be treated as significant and carried the NHA EIS Report.

wetland area that may support amphibian breeding is located le the Project Location boundary, this habitat will not be ated prior to construction.

Id consisted of four amphibian breeding survey station; ABH19, This station was surveyed on April 27, May 23 and June 15/16 Peepers and Gray Treefrogs were observed during station e number of individuals was greater than 20. As such, this e considered significant and carried forward into the NHA EIS.

d consisted of one amphibian breeding survey station; ABH20. vas surveyed on April 27 and May 24, 2016. Spring Peeper and vere observed during station visits, however, the number of ere less than 10. As such, this habitat does not meet the juirements to be considered significant.

#### Figure 5I

ding bird surveys were conducted at point count stations 104 & 105. These stations were surveyed on June 1, 3, 14, 15, 0, 2016. Species observed at these survey stations included Warbler, Black-throated Green Warbler, Ovenbird, Redhatch, Scarlet Tanager and Veery. This habitat is considered id carried forward into the NHA EIS Report.

ling bird surveys were conducted at point count stations . These stations were surveyed on May 30, 31, June 2, 3, 9, 10, , 28, and 30 2016. Species observed at these survey stations kburnian Warbler, Black-throated Green Warbler, Ovenbird, Nuthatch, Scarlet Tanager, Veery, Winter Wren and Yellowcker. This habitat is considered significant and carried forward *EIS Report*.



				Loc	ation		Status		_
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat	Habitat Composition: Attributes, Condition, and Function		Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	
Noodland Area- Sensitive Bird Breeding Habitat (con'd)	<ul> <li>Blackburnian Warbler</li> <li>Black-throated Blue Warbler</li> <li>Ovenbird</li> <li>Scarlet Tanager</li> <li>Winter Wren</li> </ul>	ASBB3	Please refer to Table 6 for Vegetation Communities associated with Woodland I	✓	✓	~			Diurnal br BBS13, 14 7, 8, 17 an Ovenbird, is consider
	Species of Conservation Concern: • Canada Warbler	ASBB4	Please refer to Table 6 for Vegetation Communities associated with Woodland L	V	v			~	Diurnal b BBS01, 02 2016. Spe Nuthatch habitat is the Proje- interior h
		ASBB5	Please refer to Table 6 for Vegetation Communities associated with Woodland AP	V	v			~	This woo However were loca Coniferon included Location habitat.
abitat of Specie	s of Conservation Concern	<u> </u>			<u> </u>	<u></u>	1	ļ	1
		ID	ELC*						
	This habitat includes all wetlands as long as there is shallow water with emergent aquatic vegetation present. For Green Heron, habitat is at the edge of water such as sluggish streams, ponds, and marshes sheltered by shrubs and trees. Less frequently it may be found in upland shrubs or forest a considerable distance from water. The following ELC communities should be considered: Meadow Marsh (MAM), Shallow Aquatic (SA), Open Bog (BOO), Open Fen (FEO), or for	MBBH1	This habitat is composed of MAMM1-3: Reed Canary Grass Meadow Marsh	✓	~			*	No prese of five or of the car
Bird Habitat (General)	<ul> <li>Green Heron: SW (Swamp), MA (Marsh) and Meadow (ME).</li> <li><u>Significant wildlife habitat defining criteria:</u></li> <li>Presence of 5 or more nesting pairs of Sedge Wren or Marsh Wren</li> <li>1 pair of Sandhill Cranes;</li> <li>Breeding by any combination of 5 or more of the listed species.</li> <li>Note: any wetland with the breeding of 1 or more Black Terns,</li> </ul>	MBBH2	This habitat is composed of MAMM1-2 : Cattail Meadow Marsh	~	V			¥	1, 4, 15, 2 Note: Wh habitat n setback d
	<ul> <li>Trumpeter Swan, Green Heron or Yellow Rail is SWH.</li> </ul>	MBBH3	This habitat is composed of MAMO1-3: Reed Canary Grass Meadow Marsh	✓	✓			~	

ding bird surveys were conducted at point count stations 10, 24, 26 & 27. These stations were surveyed on May 23, June 20, 2016. Species observed at these survey stations included arlet Tanager, Veery and Yellow-bellied Sapsucker. This habitat significant and carried forwards into the NHA EIS Report.

ding bird surveys were conducted at point count stations 03. These stations were surveyed May 31, June 10 and 21, s recorded at these survey stations included Red-breasted e portion of habitat that extends into the Project Location considered significant. Further, the area of woodland within potation that is part of this habitat does not contribute to the rat.

d did not consist of diurnal breeding bird survey stations. s woodland is 130 m west of BBS46 & 41 survey stations which in a similar ELC community (#72:WOCM1-1 Red Cedar /oodland). Species recorded at BBS46 & 41 survey stations kburnian Warbler. The area of woodland within the Project is part of this habitat does not contribute to the interior uch, this habitat will not be considered significant.

of five or more nesting pairs of Marsh Wren or a combination re wildlife species to be considered were observed within any late habitat areas during diurnal breeding bird surveys on June nd 30 2016 (BBS94 & 108).

N/A is indicated under "Not Significant", this indicates the nger occurs within the Project Location boundary or 50 m nce.



				Loc	ation		Status		_
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, ndition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Re
Marsh Breeding Bird Habitat (General) <i>(con'd)</i>	Wildlife Species to be considered:• American Bittern• Marsh Wren• Virginia Rail• Sedge Wren• Sora• Common Loon• Common Moorhen• Sandhill Crane• American Coot• Green Heron• Pied-billed Grebe• Trumpeter Swan	MBBH4	This habitat is composed of MAMM1-3 : Reed Canary Grass Meadow Marsh	N/A	N/A	N/A	N/A	N/A	
	Species of Conservation Concern: • Black Tern • Yellow Rail	MBBH5	This habitat is composed of MASO1-1: Cattail Organic Shallow Marsh.	~	V			~	
		ID	ELC*						
		GRHE1	This habitat is composed of SWDM2-1: Black Ash Deciduous Swamp; MAMM1-3: Reed Canary Grass Meadow Marsh.	~	v			~	
		GRHE2	This habitat is composed of MAMM1-2: Cattail Meadow Marsh.	~	~			~	
Marsh Breeding Bird Habitat (Green Heron)		GRHE3	This habitat is composed of MAMO1-3: Reed Canary Grass Meadow Marsh; SWDM2-2: Green Ash Deciduous Swamp; SWTO2: Willow Deciduous Thicket Swamp.	✓	~			~	No presence of habitat areas d In addition to d before leaf out identified. Ther
		GRHE4	This habitat is composed of SWDM3-3: Maple Deciduous Swamp; MAMM1-3: Reed Canary Grass Meadow Marsh.	N/A	N/A	N/A	N/A	N/A	Note: Where N habitat no long setback distanc
		GRHE5	This habitat is composed of MEMM3: Mixed Meadow.	N/A	N/A	N/A	N/A	N/A	
		GRHE6	This habitat is composed of SWDM3-3: Maple Deciduous Swamp.	~	~			~	

of Green Heron was observed within any of the candidate s during diurnal breeding bird surveys in 2016 (i.e., GRHE1-6). o diurnal breeding bird surveys, during woodland surveys out occurred in April /May of 2016, no stick nests were nerefore, all Candidate GRHE SWH is not considered significant.

e N/A is indicated under "Not Significant", this indicates the onger occurs within the Project Location boundary or 50 m ance.



				Location		Status				
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Habitat Composition: Attributes, Condition, and Function		Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	Re	
		GRHE7	This habitat is composed of SWDO2-3: Swamp Maple Deciduous Swamp.	~	~			✓		
		GRHE8	This habitat is composed of MEMM3: Mixed Meadow.	N/A	N/A	N/A	N/A	N/A	-	
Marsh Breeding Bird Habitat (Green Heron) <i>(con'd)</i>		GRHE9	This habitat is composed of Cattail MAMO1-2: Meadow Marsh; SWDM2- 2: Green Ash Deciduous Swamp; MEMM4: Mixed Meadow; SWDO2-3: Maple Deciduous Swamp; MAMR3: Bedrock Meadow Marsh.	V	¥			×	No presence of habitat areas du In addition to di before leaf out identified. There	
		GRHE10	This habitat is composed of SWDO2-3: Maple Deciduous Swamp; MEMM4: Mixed Meadow; MEGM4: Graminoid Meadow.	✓	V			~	Note: Where N, habitat no long setback distanc	
		GRHE11	This habitat is composed of MEMM3: Mixed Meadow.	$\checkmark$	√			~		
		GRHE12	This habitat is composed of MASO1-1: Cattail Organic Shallow Marsh.	✓	~			~		
		ID	ELC*							
Terrestrial Crayfish	<ul> <li>Terrestrial crayfish are typically found within south-western Ontario in Canada and their habitats are very rare. In general, crayfish are known to construction burrows in wet meadows and the edges of shallow marshes. These species can often be found far from water in soil that isn't too moist and allows for tunnels/burrows to be be formed.</li> <li><u>Significant wildlife habitat defining criteria:</u></li> <li>Presence of 1 or more individuals of species listed or their chimneys (burrows) in suitable habitat</li> <li><u>Wildlife Species to be considered:</u></li> <li>Chimney or Digger Crayfish</li> <li>Devil or Meadow Crayfish</li> </ul>	TC1	This habitat is composed of MAMO1-3: Cattail Organic Meadow Marsh	✓	¥		V		This habitat was and safety conc such, habitat wi the <i>NHA EIS Rep</i> Note: Given the the wetland, thi	

of Green Heron was observed within any of the candidate during diurnal breeding bird surveys in 2016 (i.e., GRHE7-12). diurnal breeding bird surveys, during woodland surveys ut occurred in April /May of 2016, no stick nests were herefore, all Candidate GRHE SWH is not considered significant.

N/A is indicated under "Not Significant", this indicates the nger occurs within the Project Location boundary or 50 m nce.

#### Figure 5J

was not surveyed during the 2016 field season due to health oncerns associated with accessing the full wetland area. As will be treated as significant and will be carried forward into *Report*.

the safety considerations associated with surveying this area of this habitat will not be further evaluated prior to construction.



				Location		Status			
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Habitat Composition: Attributes, Condition, and Function		Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	
		ID							
	Traditional Common Nighthawk habitat consists of open areas with little to no ground vegetation, such as logged or burned-over areas, forest clearings, rock barrens, peat bogs, lakeshores, and mine tailings. Although the species also nests in cultivated fields, orchards, urban parks, mine tailings and along gravel roads and railways, they tend to occupy natural sites.	CN1	This habitat is composed of RBTA1-7: Red Cedar Alvar Woodland.	√	~	~			On June observe significa
		CN2	This habitat is composed of RBTA1-7: Red Cedar Alvar Woodland.	N/A	N/A	N/A	N/A	N/A	The Pro occurs
		CN3	This habitat is composed of RBOA1-1 : Dry Lichen-Moss Open Alvar Pavement	✓	~			~	Crepuse June 13 area of during candida
Common Nighthawk		CN4	This habitat is composed of RBOA1 : Open Alvar Rock Barren	V	¥	~			Crepuso June 13 cover a during l candida Additio Commo in the h Commo Wildlife NHA ES
		CN5	This habitat is composed of RBSA1 : Alvar Shrub Rock Barren	√	¥			~	Crepuso June 29 cover a observe at cand
		CN6	This habitat is composed of RBSA1 : Alvar Shrub Rock Barren	✓	✓			✓	Crepuso June 29 cover a observe at cand

#### Figure 5K

016, a Common Nighthawk nest containing two eggs was n south of BBS station 79. This habitat is considered d will be carried forward into the *NHA EIS Report*.

bocation boundary has been revised. This habitat no longer the Project Location boundary or 50 m setback distance.

urveys were conducted on the nights of May 26, 2016, and , from point count BBS49. Auditory surveys typically cover an 00 m in radius and no Common Nighthawks were observed survey in the community that had been delineated at nificant Wildlife Habitat (CN3) for Common Nighthawk.

urveys were conducted on the nights of May 26, 2016, and , from point count BBS44, 47 & 48. Auditory surveys typically of 400- 500 m in radius. One Common Nighthawk was heard 5, 2016 in the community that had been delineated at nificant Wildlife Habitat (CN4) for Common Nighthawk. during diurnal breeding bird surveys on June 28, 2016, one nthawk was observed from BBS47 approximately 300 m south considered candidate Significant Wildlife Habitat for nthawk. Therefore, this habitat is considered Significant at for Common Nighthawk and will be carried forward to the *rt*.

urveys were conducted on the nights of May 31, 2016, and , from point count BBS35 & 39. Auditory surveys typically of 400- 500 m in radius and no Common Nighthawks were ng either survey in the community that had been delineated Significant Wildlife Habitat (CN5) for Common Nighthawk.

urveys were conducted on the nights of May 31, 2016, and , from point count BBS35 & 39. Auditory surveys typically of 400- 500 m in radius and no Common Nighthawks were ng either survey in the community that had been delineated Significant Wildlife Habitat (CN6) for Common Nighthawk.



					Location		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Habitat Composition: Attributes, Condition, and Function		Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	
		CN7	This habitat is composed of RBTA1-1: Red Cedar Calcareous Treed Alvar; RBOA1: Open Alvar Rock Barren; SWDM3-3: Red Cedar Alvar Woodland; FOMM5-2: Fresh Poplar Mixed Forest; RBSA1: Alvar Shrub Rock Barren; RBTA1- 7: Red Cedar Alvar Woodland.	¥	~			¥	Crepuscu June 16, cover an observed at candid
			his habitat is composed of RBTA1-7: Red Cedar Alvar Woodland.	✓	~			•	Crepusc June 16, cover an heard du candidat
Common Nighthawk <i>(con'd)</i>			his habitat is composed of RBTA1-7: Red Cedar Alvar Woodland.	√				v	Crepusc June 16, area of during e candida
		CN10	This habitat is composed of RBTA1-7: Red Cedar Alvar Woodland; RBOA1: Open Alvar Rock Barren.	✓	~			✓	Crepusc June 28, area of 4 during e candidat
		CN11 V	This habitat is composed of RBTA1-7: Red Cedar Alvar Voodland; FOCS3-1: White Cedar Calcareous Bedrock Coniferous Forest.	✓	~			✓	Crepusc June 27, area of 4 during e candidat
			his habitat is composed of FODM3-1: Bedrock Mixed Meadow.	✓	~	V			Crepusci June 27, typically was hear CN12 tha (CN12) for Therefor Common

urveys were conducted on the nights of May 30, 2016, and b, from point count BBS17, 18 & 19. Auditory surveys typically of 400- 500 m in radius and no Common Nighthawks were ing either survey in the community that had been delineated Significant Wildlife Habitat (CN7) for Common Nighthawk.

urveys were conducted on the nights of May 30, 2016, and 5, from point count BBS17 & 20. Auditory surveys typically of 400- 500 m in radius and no Common Nighthawks were either survey in the community that had been delineated at nificant Wildlife Habitat (CN8) for Common Nighthawk.

urveys were conducted on the nights of May 30, 2016, and 5, from point count BBS15. Auditory surveys typically cover an 500 m in radius and no Common Nighthawks were heard survey in the community that had been delineated at nificant Wildlife Habitat (CN9) for Common Nighthawk.

urveys were conducted on the nights of June 9, 2016, and 5, from point count BBS30. Auditory surveys typically cover an 500 m in radius and no Common Nighthawks were heard survey in the community that had been delineated at nificant Wildlife Habitat (CN10) for Common Nighthawk.

urveys were conducted on the nights of June 1, 2016, and b, from point count BBS04. Auditory surveys typically cover an 600 m in radius and no Common Nighthawks were heard survey in the community that had been delineated at nificant Wildlife Habitat (CN11) for Common Nighthawk.

urveys were conducted on the nights of June 1, 2016, and 5, from point count BBS04, 05, 06 & 07. Auditory surveys r an area of 400- 500 m in radius. One Common Nighthawks ring June 1, 2016, a survey in the direction of community d been delineated at candidate Significant Wildlife Habitat mmon Nighthawk.

is habitat is considered Significant Wildlife Habitat for hthawk and will be carried forward to the NHA EIS Report.



Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat	Habitat Composition: Attributes, Condition, and Function		Within Project Location	Within 50 m of Project Location	Significant	Status Treated as Significant	Not Significant	Rel
Common Nighthawk <i>(con'd)</i>		CN13	This habitat is composed of RBTA1-7: Red Cedar Alvar Woodland; RBOA1-1: Dry Lichen-Moss Open Alvar Pavement.	~	~			~	Crepuscular surv June 16, 2016, fr cover an area of heard during eitl candidate Signifi
	<ul> <li>Species of Special Concern:</li> <li>Red-headed Woodpecker (RHWO):</li> <li>The Red-headed Woodpecker lives in open deciduous woodland and woodland edges with oak, oak-hickory, and maple. They are often found in parks, golf courses, and cemeteries. These areas typically have many dead trees, which the bird uses for nesting and perching. They require cavity trees with at least a 40 cm dbh and 4 ha for a I territory.</li> <li>Eastern Wood-Pewee (EAWP)</li> <li>The Eastern Wood-Pewee lives in forst clearings and forest edges predominated by oak with little understory including mature woodlands, roadsides, woodlots, farm woodlots and orchards.</li> </ul>	ID RHWO1	Please refer to Table 6for Vegetation Communities associated with Woodland BM	~	✓			✓	Diurnal breeding BBS94-101 &104 Woodpeckers w habitat is not co Woodpeckers.
Woodland Specific Bird Species of Special Concern		RHWO2	Please refer to Table 6for Vegetation Communities associated with Woodland AD	~	V	V			Diurnal breeding BBS54 – BBS90 of headed Woodpe from station BBS Wildlife Habitat the NHA EIS.
		RHWO3	Please refer to Table 6for Vegetation Communities associated with Woodland AE	~	~			~	Diurnal breeding BBS36, 37 & 38 d Woodpeckers we habitat is not co Woodpeckers.
		RHWO4	Please refer to Table 6for Vegetation Communities associated with Woodland I	~	~			✓	Diurnal breeding BBS13, 14, 24, 24 headed Woodpe Therefore, this h Red-Headed Wo
		RHWO5	Please refer to Table 6for Vegetation Communities associated with Woodland L	~	~			~	Diurnal breeding BBS01, 02 & 03 d were observed c considered Signi
		RHWO6	Please refer to Table 6for Vegetation Communities associated with Woodland F	~	~			✓	Diurnal breeding BBS07 on May 3 observed or hea considered Signi

urveys were conducted on the nights of May 30, 2016, and b, from point count BBS12 & 13. Auditory surveys typically of 400- 500 m in radius and no Common Nighthawks were either survey in the community that had been delineated at nificant Wildlife Habitat (CN13) for Common Nighthawk.

## Figure 5L

ing bird surveys were conducted at point count stations LO4 on June 1, 3, 14, 15, 24, 28 & 30. No Red-headed were observed or heard during the surveys. Therefore, this considered Significant Wildlife Habitat for Red-Headed .

ing bird surveys were conducted at point count stations 0 on May 30, 31, June 2, 3, 7, 9, 10, 16, 21, 27 & 30. A Red-Ipecker was heard calling during the June 30, 3016 survey 3BS63. Therefore, this habitat is considered Significant at for Redheaded Woodpecker and will be carried forward to

ing bird surveys were conducted at point count stations 8 on May 23, June 8 & 20, 2016. No Red-headed were observed or heard during the surveys. Therefore, this considered Significant Wildlife Habitat for Red-Headed .

ing bird surveys were conducted at point count stations , 26, 27 & 110 on May 23, June 7, 8, 17 & 20 2016. No Redlpeckers were observed or heard during the surveys. s habitat is not considered Significant Wildlife Habitat for Noodpeckers.

ing bird surveys were conducted at point count stations 3 on May 31, June 10 & 21. No Red-headed Woodpeckers d or heard during the surveys. Therefore, this habitat is not gnificant Wildlife Habitat for Red-Headed Woodpeckers.

ing bird surveys were conducted at point count stations y 31, June 10 & 21. No Red-headed Woodpeckers were eard during the surveys. Therefore, this habitat is not gnificant Wildlife Habitat for Red-Headed Woodpeckers.



				Loc	ation		Status		
Wildlife Defining Criteria for Sig Habitat	Defining Criteria for Significant Wildlife Habitat	Habitat Composition: Attributes, Condition, and Function		Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	
		RHWO7	Please refer to Table 6for Vegetation Communities associated with Woodland B	~	~			✓	Diurnal BBS08 & observe conside
		EAWP1	Please refer to Table 6for Vegetation Communities associated with Woodland BM	~	~	✓			Diurnal BBS94-1 were he & 95, re Habitat <i>EIS.</i>
Woodland Specific Bird ecies of Special Concern <i>(con'd)</i>		EAWP2	Please refer to Table 6for Vegetation Communities associated with Woodland AD	~	~	✓			Diurnal BBS54 – 27 audit the 201 70, 71, <sup>-</sup> Significa forward
		EAWP3	Please refer to Table 6for Vegetation Communities associated with Woodland AE	~	~	<b>~</b>			Diurnal BBS36, were he habitat and will
		EAWP4	Please refer to Table 6for Vegetation Communities associated with Woodland I	~	~	~			Diurnal BBS13, seven a the 201 Therefo Wood-F
		EAWP5	Please refer to Table 6 for Vegetation Communities associated with Woodland L	~	~			✓	Diurnal BBS01, observe conside
		EAWP6	Please refer to Table 6for Vegetation Communities associated with Woodland F	~	~			✓	Diurnal BBS07 o heard d Significa
		EAWP7	Please refer to Table 6for Vegetation Communities associated with Woodland B	~	V			~	Diurnal BBS08 & observe conside

#### Relevant Evaluation Criteria Determining Status

ing bird surveys were conducted at point count stations n May 31, June 10 & 21. No Red-headed Woodpeckers were eard during the surveys. Therefore, this habitat is not gnificant Wildlife Habitat for Red-Headed Woodpeckers.

ing bird surveys were conducted at point count stations L04 on June 1, 3, 14, 15, 24, 28 & 30. Eastern Wood-Pewees alling during the June 1 & 3, 2016 surveys from station BBS104 vely. Therefore, this habitat is considered Significant Wildlife stern Wood-Pewee and will be carried forward to the NHA

ing bird surveys were conducted at point count stations 0 on May 30, 31, June 2, 3, 7, 9, 10, 16, 21, 27 & 30. A total of oservations of Eastern Wood-Pewee were recorded during surveys, specifically at stations BBS56, 60, 64, 65, 66, 67, 69, , 77, 85, 90 & 95. Therefore, this habitat is considered Idlife Habitat for Eastern Wood-Pewee and will be carried e *NHA EIS*.

ing bird surveys were conducted at point count stations 8 on May 23, June 8 & 20, 2016. Two Eastern Wood-Pewees om station BBS37 on June 7 & 17, 2016. Therefore, this sidered Significant Wildlife Habitat for Eastern Wood-Pewee rried forward to the NHA EIS.

ing bird surveys were conducted at point count stations , 26, 27 & 110 on May 23, June 7, 8, 17 & 20 2016. A total of y observations were made of Eastern Wood-Pewee during season, specifically at stations BBS 13, 14, 26 & 110. s habitat is considered Significant Wildlife Habitat for Eastern and will be carried forward to the *NHA EIS*.

ing bird surveys were conducted at point count stations 3 on May 31, June 10 & 21. No Eastern Wood-Pewee was eard during the surveys. Therefore, this habitat is not gnificant Wildlife Habitat for Eastern Wood-Pewee.

ing bird surveys were conducted at point count stations / 31, June 10 & 21. No Eastern Wood-Pewee was observed or the surveys. Therefore, this habitat is not considered Idlife Habitat for Eastern Wood-Pewee.

ing bird surveys were conducted at point count stations n May 31, June 10 & 21. No Eastern Wood-Pewee was eard during the surveys. Therefore, this habitat is not gnificant Wildlife Habitat for Eastern Wood-Pewee.



				Loc	ation		Status		
Wildlife Habitat	Defining Criteria for Significant Wildlife Habitat		Composition: Attributes, Idition, and Function	Within Project Location	Within 50 m of Project Location	Significant	Treated as Significant	Not Significant	
		ID							
	The Wood Thrush lives in Carolinian and Great Lakes-St. Lawrence forest zones with undisturbed moist mature deciduous or mixed forest	WOTH1	Please refer to Table 6for Vegetation Communities associated with Woodland BM	✓	✓	✓			Diurna BBS94 Thrus is con carrie
Wood		WOTH2	Please refer to Table 6 for Vegetation Communities associated with Woodland Bl	✓	✓			~	No di due to 250m Thrus There Wood
Thrush	with deciduous sapling growth. Habitat is generally near ponds or swamps along hardwood forest edges.	WOTH3	Please refer to Table 6for Vegetation Communities associated with Woodland AE	~	✓			~	Diurn BBS36 obser consid
		WOTH4	Please refer to Table 6for Vegetation Communities associated with Woodland I	•	✓	V			Diurn BBS13 Thrus BBS14 Wood Note: evalua signifi
		WOTH5	Please refer to Table 6for Vegetation Communities associated with Woodland B	~	✓			~	Diurn BBS08 made Signifi
Yellow Pond Lily	The habitat of this species includes alkaline and neutral water 0.5 to 2 m deep. Blooming occurs from May to October, particularly opening in the morning and closing at night	alkaline a deep. Blo October,	tat of this species includes nd neutral water 0.5 to 2 m coming occurs from May to particularly opening in the ing and closing at night	~	~	~			Yellov permi water exten See <b>F</b> i
Juniper Hairstreak	The habitat of this species includes old fields, bluffs, barrens, juniper and cedar breaks. This species prefers juniper species during the breeding season as their caterpillar host.	exists ub	al habitat for this species viquitously throughout the ocation and 50 m setback	~	V		V		There was re in 201 the N See <b>F</b> i

### Relevant Evaluation Criteria Determining Status

#### Figure 5M

ding bird surveys were conducted at point count stations 104 on June 1, 3, 14, 15, 24, 28 & 30. A total of 13 Wood vations were made during the surveys. Therefore, this habitat I Significant Wildlife Habitat for Wood Thrush and will be ard into the NHA EIS Report.

reeding bird surveys were conducted within this Woodland s permission. However, survey station BBS94 and BBS81 are 0 m north and south of the Woodland, respectively. No Wood vation was made during the surveys at those stations. his habitat is not considered Significant Wildlife Habitat for n.

ding bird surveys were conducted at point count stations 38 on May 23, June 8 & 20, 2016. No Wood Thrush was made during the surveys. Therefore, this habitat is not ignificant Wildlife Habitat for Wood Thrush.

ding bird surveys were conducted at point count stations 4, 26, 27 & 110 on May 23, June 7, 8, 17 & 20 2016. Two Wood vations were made on May 23, 2016, at station BBS13 and efore, this habitat is considered Significant Wildlife Habitat for and will be carried forward into the *NHA EIS Report*. on access permissions, this habitat will not be further ior to construction and the habitat will be treated as

ding bird surveys were conducted at point count stations on May 31, June 10 & 21. No Wood Thrush observation was the surveys. Therefore, this habitat is not considered fildlife Habitat for Wood Thrush.

Lily was observed in watercourses where access was or those areas where access was not permitted, but the is connected to where observations were recorded, the full habitat is considered significant.

veral areas within Project Location where applicable habitat d. Given that surveys for butterfly species were not conducted e habitats will be treated as significant and brought forward to *Report*.



Wildlife HabitatDefining Criteria for Significant Wildlife HabitatHabitat Composition: Attributes, Condition, and FunctionJulyJ		Status		ation	Loc		
	Not Significant	Treated as Significant	Significant	Within 50 m of Project Location	Within Project Location	Defining Criteria for Significant Wildlife Habitat	
imal Movement Corridors						nt Corridors	imal Moveme
Amphibian Movement Corridors are determined based on the identification of significant breeding habitat for amphibians. Movement corridors between breeding habitat and summer habitat must be determined when amphibian breeding habitat and the species observed within the significant wildlife habitat and the species observed within the significant amphibian breeding habitat (wetland) relay on woodland habitat for a portion of their life cycle. Corridors should be at least 200 m wide with gaps <20 m, and, if following riparian area, with at least 15 m of 	Since the wetla significant, ther corridors associ			~	✓	breeding habitat for amphibians. Movement corridors between breeding habitat and summer habitat must be determined when amphibian breeding habitat (wetland) is confirmed as significant wildlife habitat and the species observed within the significant amphibian breeding habitat (wetland) relay on woodland habitat for a portion of their life cycle. Corridors may be found in all ecosites associated with water. Corridors should be at least 200 m wide with	Movement

## Relevant Evaluation Criteria Determining Status

and Amphibian Breeding Habitat was evaluated as not ere are no applicable candidate amphibian movement ciated with the Project.



Significant wildlife habitat within the Project Location and 50 m setback includes (please note that "\*" next to the wildlife habitat code indicates the habitat is being treated as significant):

- Seasonal Concentration Areas
  - Waterfowl Stopover and Staging Area Terrestrial (WSST1\*, WSST2\*, WSST3\*, WSST4\*, WSST5\*, WSST6\*, WSST7\*, WSST8\*, WSST9\*, WSST10\*)
  - Waterfowl Stopover and Staging Area Aquatic (WSSA1\*, WSSA2\*, WSSA4\*)
  - Turtle Wintering Areas (TWA1\*)
  - Reptile Hibernaculum (RH1\*, RH2\*, RH3\* RH4\*, RH5\*, RH7\*, RH8\*, RH9\*, RH10\*, RH11\*, RH12\*, RH13\*, RH14\*, RH15\*, RH16\*)
  - Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) (CNT1\*, CNT9\*, CNT10\*, CNT11\*, CNT15\*, CNT16\*, CNT17\*, CNT18\*, CNT19\*, CNT20\*, CNT21\*, CNT22\*, CNT23\*, CNT24\*, CNT25\*, CNT26\*, CNT27\*, CNT28\*)
- Rare Vegetation Communities
  - o Alvar
    - ALV6 (Significant Other Rare Vegetation Community)
    - Significant Carolina Whitlow Grass Habitat (previously ALV11; only the approximately 25 m<sup>2</sup> portion that was reported to support Carolina Whitlow Grass is significant)
    - ALV21 (Significant Other Rare Vegetation Community)
- Specialised Wildlife Habitat
  - Waterfowl Nesting Area (WNA2\*, WNA4\*, WNA7\*)
  - Turtle Nesting Areas (TN1)
  - Amphibian Breeding Habitat (Woodland) (ABHWO1, ABHWO2, ABHWO3\*, ABHWO6, ABHWO9\*, ABHWO10)
  - Woodland Area-Sensitive Bird Breeding Habitat (ASBB1, ASBB2, ASBB3)
  - Terrestrial Crayfish (TC1\*)
- Habitat For Species of Conservation Concern
  - Common Nighthawk (CN1, CN4, CN12)
  - Woodland Specific Bird Species of Special Concern Red-headed Woodpecker (RHW02); Eastern Wood Pe-wee (EAWP1, EAWP2, EAWP3. EAWP4)
  - Wood Thrush (WOTH1, WOTH4)
  - Yellow Pond Lily
  - Juniper Hairstreak \*

## See Figures 5A- 50.

In addition, the MNRF has scoped the applicable wildlife habitat that may be impacted if a renewable energy project is developed within 50 m. All other wildlife habitat that may occur entirely within 50 m can be assumed to exist and categorized as "Generalized Candidate Significant Wildlife Habitat" and must be treated as significant in the *NHA EIS Report*.



The applicable scoped wildlife habitat identified within 50 m of the Project Location and identified as "Generalized Candidate Significant Wildlife Habitat" is outlined in the NHA Site Investigation Report. In addition to these habitats, candidate habitat associated with Hinch Swamp is included for Olive-sided Flycatcher, a Species of Conservation Concern. A male of this species was recorded singing during breeding bird surveys. Although this individual may have been a migrant, it has been included for the purposes of this NHA reporting.

LOYALIST SOLAR LP

Loyalist Solar Project

January 2017 – 16-3674



### **Conclusion** 9.0

This report evaluated the significance of natural features determined to occur within 50 m of the Project Location. The natural features evaluated for their significance in this report were identified previously as part of the records review and site investigation and are subject to consultation with relevant agencies, stakeholders and the public. The evaluation of significance was undertaken according to the criteria and procedures currently accepted by the MNRF. Figures 3, 4, and 5A-50 and Table 8 below summarize the results of the evaluations.

This report is intended to fulfill the requirements for the NHA Evaluation of Significance Report under Ontario Regulation 359/09. This NHA Evaluation of Significance Report is the third report in a series that will fulfill the NHA component of the REA process. An NHA Environmental Impact Study Report, which examines potential impacts, mitigation, and other relevant items to protect these natural features, will be required for those natural features evaluated to be significant within 50 m of the Project Location.



Natural Feature		Details		
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significan
Vetlands				
4	5	$\checkmark$		
11	0	$\checkmark$		
18	Within		✓	
26	0		$\checkmark$	
31	0		$\checkmark$	
34	0		$\checkmark$	
40	0		$\checkmark$	
43	0		✓	
44	0		$\checkmark$	
45	0		$\checkmark$	
49	Within		$\checkmark$	
54	0		$\checkmark$	
61	0		$\checkmark$	
62	0		$\checkmark$	
71	0		$\checkmark$	
72	0		✓	
73	0		$\checkmark$	
75	0		✓	
77	0		$\checkmark$	
78	0		✓	
83	0		$\checkmark$	
85	0		✓	
86	5		✓	
88	0	✓		
92	0		$\checkmark$	
94	0	✓		
96	0		$\checkmark$	
99	5			✓

## LOYALIST SOLAR LP



<b>Natural Feature</b>	Details						
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significan			
100	5			✓			
101	5			~			
102	0	$\checkmark$					
103	5	$\checkmark$					
104	Within	$\checkmark$					
105	0			~			
106	0			~			
108	0			~			
109	0		$\checkmark$				
114	Within		$\checkmark$				
115	25			~			
116	0			~			
117	9		$\checkmark$				
118	0		$\checkmark$				
119	0			~			
120	0			~			
121	0			~			
122	0		$\checkmark$				
123	0		$\checkmark$				
124	0			✓			
125	0		$\checkmark$				
126	0		$\checkmark$				
127	12		$\checkmark$				
Woodlands							
AB	0	$\checkmark$					
AD	Within	✓					
AE	Within	✓					
AP	Within	✓					
AQ	0	✓					
В	Within	$\checkmark$					

## LOYALIST SOLAR LP



Natural Feature	Details							
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significan				
BC	0	$\checkmark$						
BD	Within	$\checkmark$						
ВН	Within	$\checkmark$						
BI	Within	$\checkmark$						
BM	Within	$\checkmark$						
BP	0			~				
BS	Within			~				
BT	Within			~				
BU	0			~				
CA	0	✓						
CN	0			~				
CW	1	✓						
CX	0	$\checkmark$						
CY	Within			✓				
CZ	0			✓				
DB	Within	✓						
DD	Within			~				
DF	Within			~				
DI	Within			~				
DL	Within			~				
DM	5			~				
DN	0			✓				
DO	0			~				
DP	0			✓				
DQ	0			✓				
DR	0			✓				
DT	30			✓				
DU	0			✓				
DX	31			✓				
DY	0			✓				

## LOYALIST SOLAR LP



Natural Feature	Details						
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significan			
DZ	Within			✓			
EA	Within	✓					
F	Within			✓			
Ι	Within	$\checkmark$					
L	Within	$\checkmark$					
Vildlife Habitat			1	1			
easonal Concentration Areas							
Waterfowl Stopover and Staging Areas (Terrestrial) WSST1	Within		✓				
Waterfowl Stopover and Staging Areas (Terrestrial) WSST2	Within		✓				
Waterfowl Stopover and Staging Areas (Terrestrial) WSST3	Within		✓				
Waterfowl Stopover and Staging Areas (Terrestrial) WSST4	Within		~				
Waterfowl Stopover and Staging Areas (Terrestrial) WSST5	Within		✓				
Waterfowl Stopover and Staging Areas (Terrestrial) WSST6	Within		✓				
Waterfowl Stopover and Staging Areas (Terrestrial) WSST7	Within		~				
Waterfowl Stopover and Staging Areas (Terrestrial) WSST8	Within		✓				
Waterfowl Stopover and Staging Areas (Terrestrial) WSST9	Within		✓				
Waterfowl Stopover and Staging Areas (Terrestrial) WSST10	Within		~				



Natural Feature	Details						
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significan			
Waterfowl Stopover and Staging Areas (Aquatic) WSSA1	Within		✓				
Waterfowl Stopover and Staging Areas (Aquatic) WSSA2	Within		✓				
Waterfowl Stopover and Staging Areas (Aquatic) WSSA4	Within		✓				
Turtle Wintering Areas TWA1	Within		$\checkmark$				
Reptile Hibernaculum RH1	Within		$\checkmark$				
Reptile Hibernaculum RH2	Within		✓				
Reptile Hibernaculum RH3	Within		✓				
Reptile Hibernaculum RH4	Within		✓				
Reptile Hibernaculum RH5	Within		✓				
Reptile Hibernaculum RH7	Within		$\checkmark$				
Reptile Hibernaculum RH8	Within		$\checkmark$				
Reptile Hibernaculum RH9	Within		✓				
Reptile Hibernaculum RH10	Within		✓				
Reptile Hibernaculum RH11	Within		$\checkmark$				
Reptile Hibernaculum RH12	Within		$\checkmark$				
Reptile Hibernaculum RH13	Within		✓				
Reptile Hibernaculum RH14	Within		$\checkmark$				
Reptile Hibernaculum RH15	Within		✓				
Reptile Hibernaculum RH16	Within		✓				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT1	5		~				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT2	5			~			
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT3	Within			~			
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT4	Within			~			

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Natural Feature	Details						
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significan			
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT5	Within			✓			
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT6	Within			~			
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT9	0		~				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT10	0		✓				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT11	0		~				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT15	Within		~				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT16	Within		✓				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT17	Within		✓				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT18	0		✓				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT19	0		✓				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT20	Within		✓				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT21	0		✓				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT22	0		~				



Natural Feature	Details						
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significant			
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT23	0		✓				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT24	0		~				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT25	0		~				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT26	Within		~				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT27	5		~				
Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) CNT28	0		~				
Colonially Nesting Bird Breeding Habitat (Ground) CNG1	Within			~			
Colonially Nesting Bird Breeding Habitat (Ground) CNG3	Within			✓			
Colonially Nesting Bird Breeding Habitat (Ground) CNG4	Within			~			
Colonially Nesting Bird Breeding Habitat (Ground) CNG5	Within			~			
Colonially Nesting Bird Breeding Habitat (Ground) CNG6	0 m			~			
Colonially Nesting Bird Breeding Habitat (Ground) CNG7	Within			~			
Colonially Nesting Bird Breeding Habitat (Ground) CNG8	0 m			✓			



Natural Feature	Details						
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significan			
Colonially Nesting Bird Breeding Habitat (Ground) CNG9	0 m			$\checkmark$			
Colonially Nesting Bird Breeding Habitat (Ground) CNG10	0 m			✓			
Colonially Nesting Bird Breeding Habitat (Ground) CNG11	0 m			✓			
Colonially Nesting Bird Breeding Habitat (Ground) CNG12	Within			✓			
Colonially Nesting Bird Breeding Habitat (Ground) CNG13	Within			✓			
Colonially Nesting Bird Breeding Habitat (Ground) CNG16	Within			V			
Rare Vegetation Communities							
Alvar ALV1	Within			✓			
Alvar ALV2	Within			~			
Alvar ALV3	Within			✓			
Alvar ALV4	Within			✓			
Alvar ALV5	Within			$\checkmark$			
Alvar ALV6 (Other Rare Vegetation Community)	Within	✓					
Alvar ALV7	Within			✓			
Alvar ALV8	Within			✓			
Alvar ALV11. This habitat is not significant. Revised to Habitat for Carolina Whitlow Grass	Within	✓					
Alvar ALV12	Within			~			
Alvar ALV13	Within			✓			
Alvar ALV14	Within			✓			
Alvar ALV15	Within			✓			
Alvar ALV16	Within			✓			

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Natural Feature	Details						
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significant			
Alvar ALV17	Within			✓			
Alvar ALV18	Within			~			
Alvar ALV19	Within			~			
Alvar ALV20	Within			✓			
Alvar ALV21 (Other Rare Vegetation Community)	Within	$\checkmark$					
Old Growth Forest (OG1)	Within			✓			
Old Growth Forest (OG2)	Within			$\checkmark$			
Old Growth Forest (OG3)	0 m			✓			
Old Growth Forest (OG4)	Within			✓			
Old Growth Forest (OG5)	Within			✓			
Old Growth Forest (OG6)	Within			✓			
Old Growth Forest (OG7)	Within			✓			
Specialised Wildlife Habitat	'		1	1			
Waterfowl Nesting Area WNA1	Within			✓			
Waterfowl Nesting Area WNA2	Within		✓				
Waterfowl Nesting Area WNA3	Within			✓			
Waterfowl Nesting Area WNA4	Within		✓				
Waterfowl Nesting Area WNA5	Within			✓			
Waterfowl Nesting Area WNA6	Within			✓			
Waterfowl Nesting Area WNA7	Within		✓				
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat BEOS1	Within			✓			
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat BEOS2	Within			~			
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat BEOS3	Within			✓			
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat BEOS4	Within			~			



Natural Feature		Details		
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significan
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat BEOS5	Within			~
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat BEOS6	Within			✓
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat BEOS7	Within			✓
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat BEOS8	Within			√
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat BEOS9	Within			~
Woodland Raptor Nesting Area WRN1	Within			~
Woodland Raptor Nesting Area WRN2	Within			~
Woodland Raptor Nesting Area WRN3	Within			$\checkmark$
Turtle Nesting Areas	Within		✓	
Amphibian Breeding Habitat (Wetland) ABHWE1	5			✓
Amphibian Breeding Habitat (Woodland) ABHWO1	Within	$\checkmark$		
Amphibian Breeding Habitat (Woodland) ABHWO2	Within	$\checkmark$		
Amphibian Breeding Habitat (Woodland) ABHWO3	Within		~	
Amphibian Breeding Habitat (Woodland) ABHWO4	Within			~
Amphibian Breeding Habitat (Woodland) ABHWO5	Within			$\checkmark$
Amphibian Breeding Habitat (Woodland) ABHWO6	Within	✓		
Amphibian Breeding Habitat (Woodland) ABHWO7	Within			~

### LOYALIST SOLAR LP



Natural Feature		Details		
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significant
Amphibian Breeding Habitat (Woodland) ABHWO8	Within			$\checkmark$
Amphibian Breeding Habitat (Woodland) ABHWO9	Within		✓	
Amphibian Breeding Habitat (Woodland) ABHWO10	Within	✓		
Amphibian Breeding Habitat (Woodland) ABHWO11	Within			$\checkmark$
Woodland Area-Sensitive Bird Breeding Habitat ASBB1	Within	$\checkmark$		
Woodland Area-Sensitive Bird Breeding Habitat ASBB2	Within	$\checkmark$		
Woodland Area-Sensitive Bird Breeding Habitat ASBB3	Within	$\checkmark$		
Woodland Area-Sensitive Bird Breeding Habitat ASBB4	Within			$\checkmark$
Woodland Area-Sensitive Bird Breeding Habitat ASBB5	Within			✓
labitat of Species of Conservat	ion Concern			
Marsh Breeding Bird Habitat General MBBH1	Within			$\checkmark$
Marsh Breeding Bird Habitat General MBBH2	Within			✓
Marsh Breeding Bird Habitat General MBBH3	Within			✓
Marsh Breeding Bird Habitat General MBBH5	Within			$\checkmark$
Marsh Breeding Bird Habitat Green Heron GRHE1	Within			✓
Marsh Breeding Bird Habitat Green Heron GRHE2	Within			✓
Marsh Breeding Bird Habitat Green Heron GRHE3	Within			$\checkmark$
Marsh Breeding Bird Habitat Green Heron GRHE6	Within			$\checkmark$
Marsh Breeding Bird Habitat Green Heron GRHE7	Within			✓



Natural Feature		Details		
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significan
Marsh Breeding Bird Habitat Green Heron GRHE9	Within			$\checkmark$
Marsh Breeding Bird Habitat Green Heron GRHE10	Within			$\checkmark$
Marsh Breeding Bird Habitat Green Heron GRHE11	Within			~
Marsh Breeding Bird Habitat Green Heron GRHE12	Within			$\checkmark$
Terrestrial Crayfish (TC1)	Within		$\checkmark$	
Common Nighthawk CN1	Within	✓		
Common Nighthawk CN3	Within			~
Common Nighthawk CN4	Within	$\checkmark$		
Common Nighthawk CN5	Within			~
Common Nighthawk CN6	Within			$\checkmark$
Common Nighthawk CN7	Within			~
Common Nighthawk CN8	Within			~
Common Nighthawk CN9	Within			✓
Common Nighthawk CN10	Within			✓
Common Nighthawk CN11	Within			$\checkmark$
Common Nighthawk CN12	Within	$\checkmark$		
Common Nighthawk CN13	Within			✓
Woodland Specific Bird Species of Special Concern RHWO1	Within			~
Woodland Specific Bird Species of Special Concern RHWO2	Within	$\checkmark$		
Woodland Specific Bird Species of Special Concern RHWO3	Within			~
Woodland Specific Bird Species of Special Concern RHWO4	Within			~
Woodland Specific Bird Species of Special Concern RHWO5	Within			~
Woodland Specific Bird Species of Special Concern RHWO6	Within			~



Natural Feature		Details		
Туре	Minimum Setback Provided from Project Location (m)	Significant/ Provincially Significant	Treated as Significant/ Assumed Significant	Not Significant
Woodland Specific Bird Species of Special Concern RHWO7	Within			✓
Woodland Specific Bird Species of Special Concern EAWP1	Within	$\checkmark$		
Woodland Specific Bird Species of Special Concern EAWP2	Within	✓		
Woodland Specific Bird Species of Special Concern EAWP3	Within	$\checkmark$		
Woodland Specific Bird Species of Special Concern EAWP4	Within	$\checkmark$		
Woodland Specific Bird Species of Special Concern EAWP5	Within			✓
Woodland Specific Bird Species of Special Concern EAWP6	Within			✓
Woodland Specific Bird Species of Special Concern EAWP7	Within			✓
Wood Thrush WOTH1	Within	✓		
Wood Thrush WOTH2	Within			✓
Wood Thrush WOTH3	Within			✓
Wood Thrush WOTH4	Within	✓		
Wood Thrush WOTH5	Within			✓
Yellow Pond Lily	Within	✓		
Juniper Hairstreak Note: JH16,17 and 22 are no longer in Project Location Boundary	Within Project Location or within 0 m of Project Location. See NHA Site Investigation Report Figure 7V		~	
Animal Movement Corridors				
Amphibian Movement Corridors	Within			~



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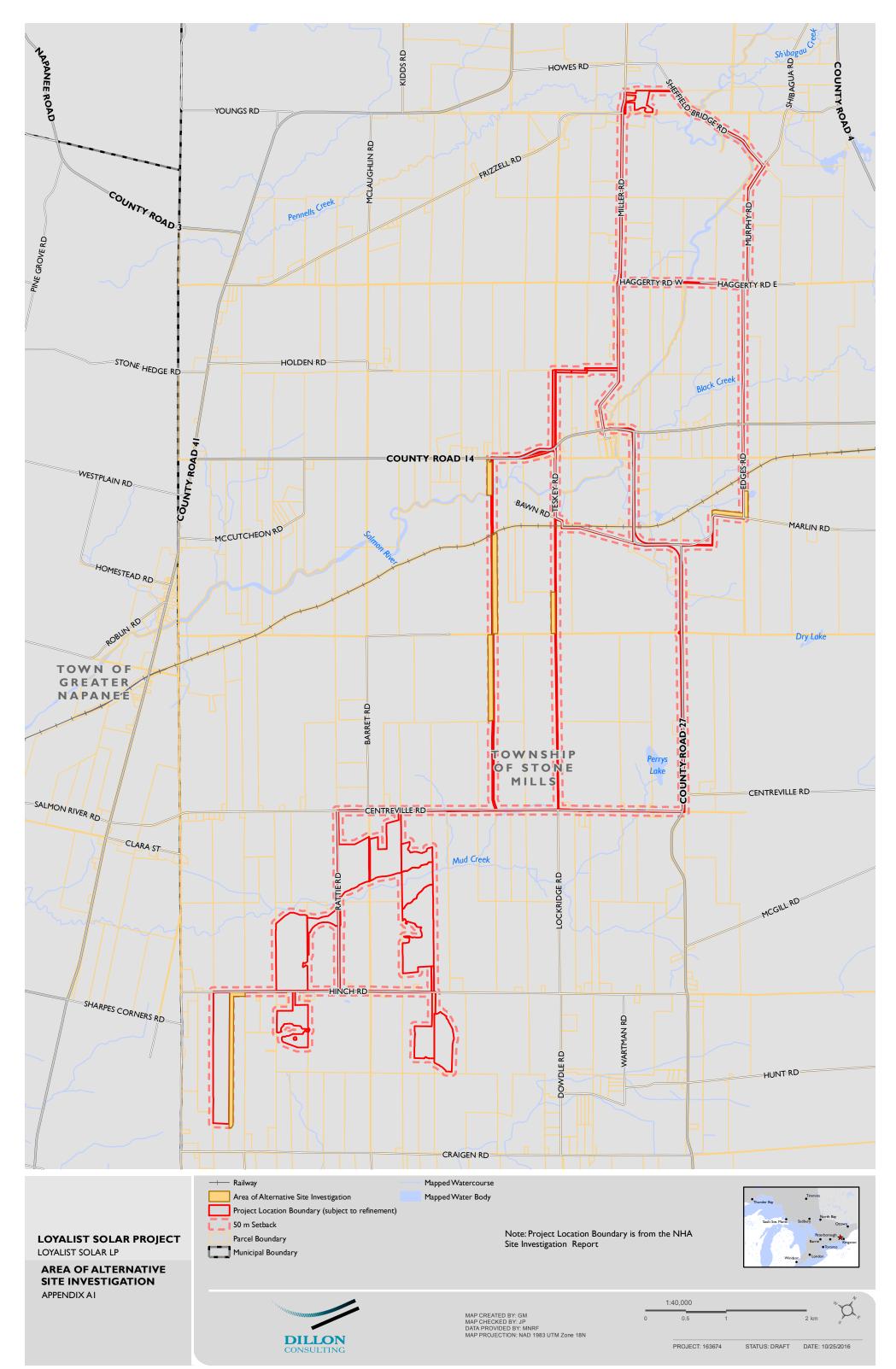


# **Appendix A**

Areas of Alternative Site Investigation



LOYALIST SOLAR LP Natural Heritage Assessment Evaluation of Significance Report January 2017 – 16-3674

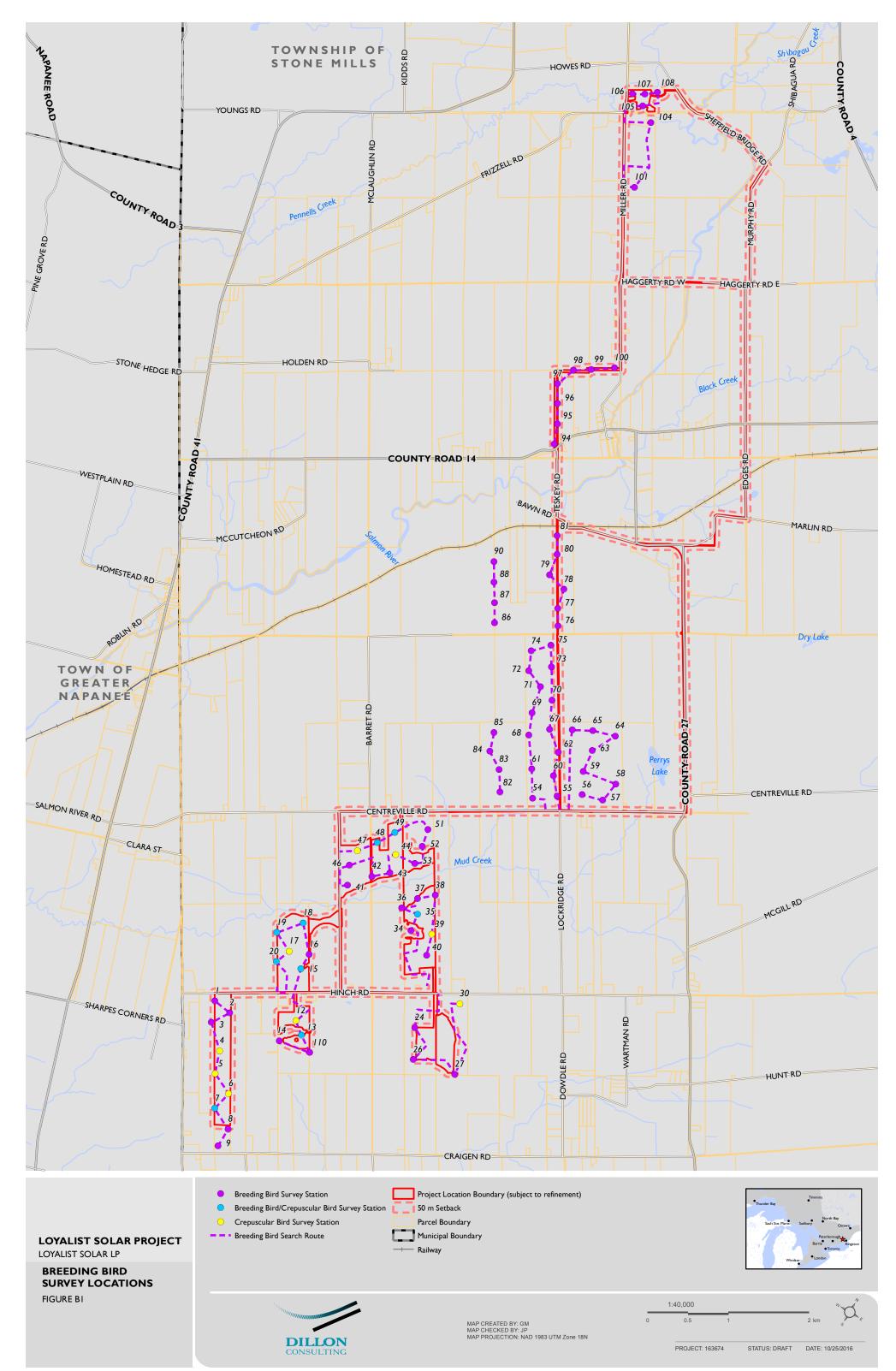


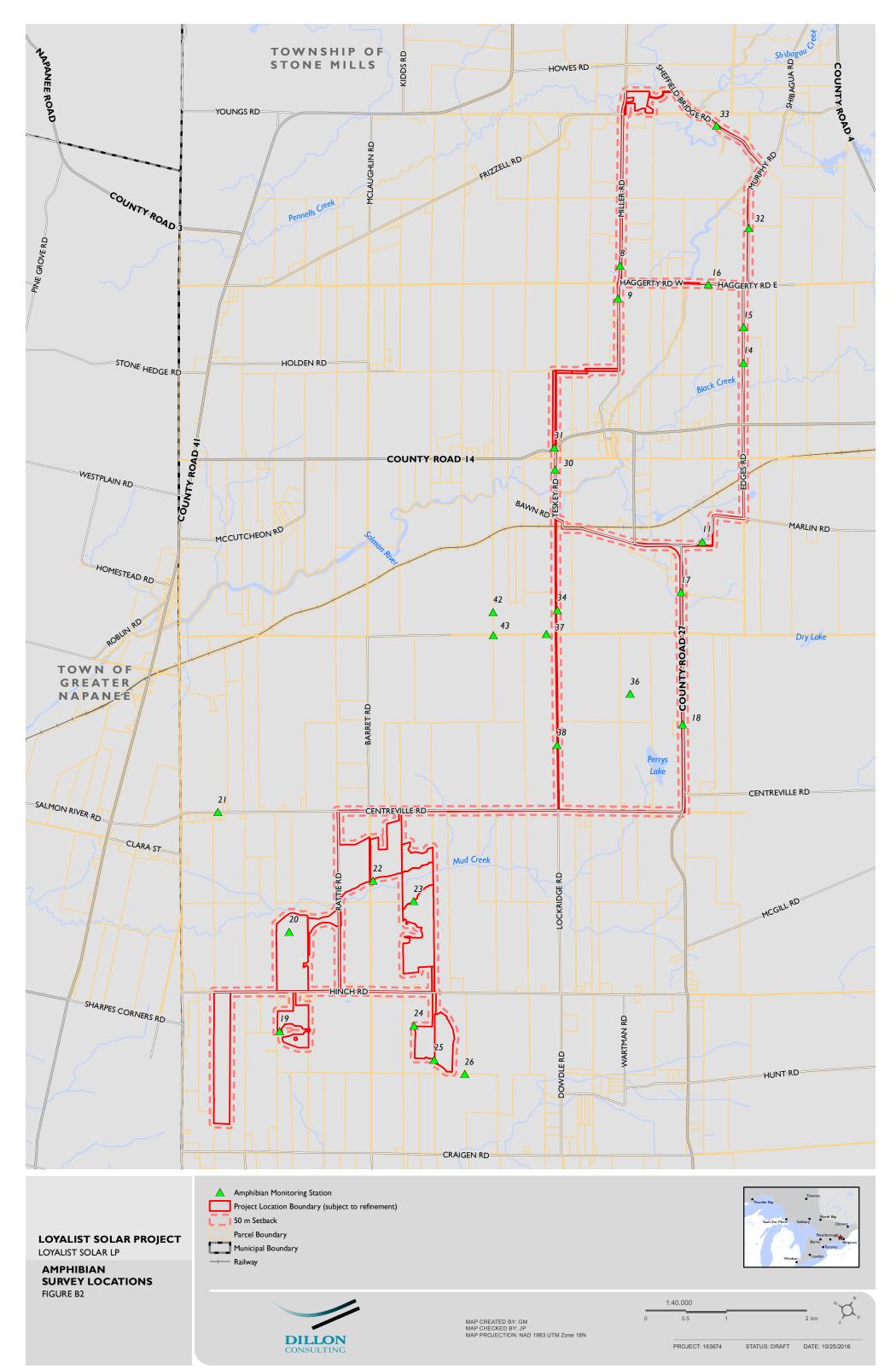
## **Appendix B**

**Field Surveys** 









# **Appendix C**

Field Notes



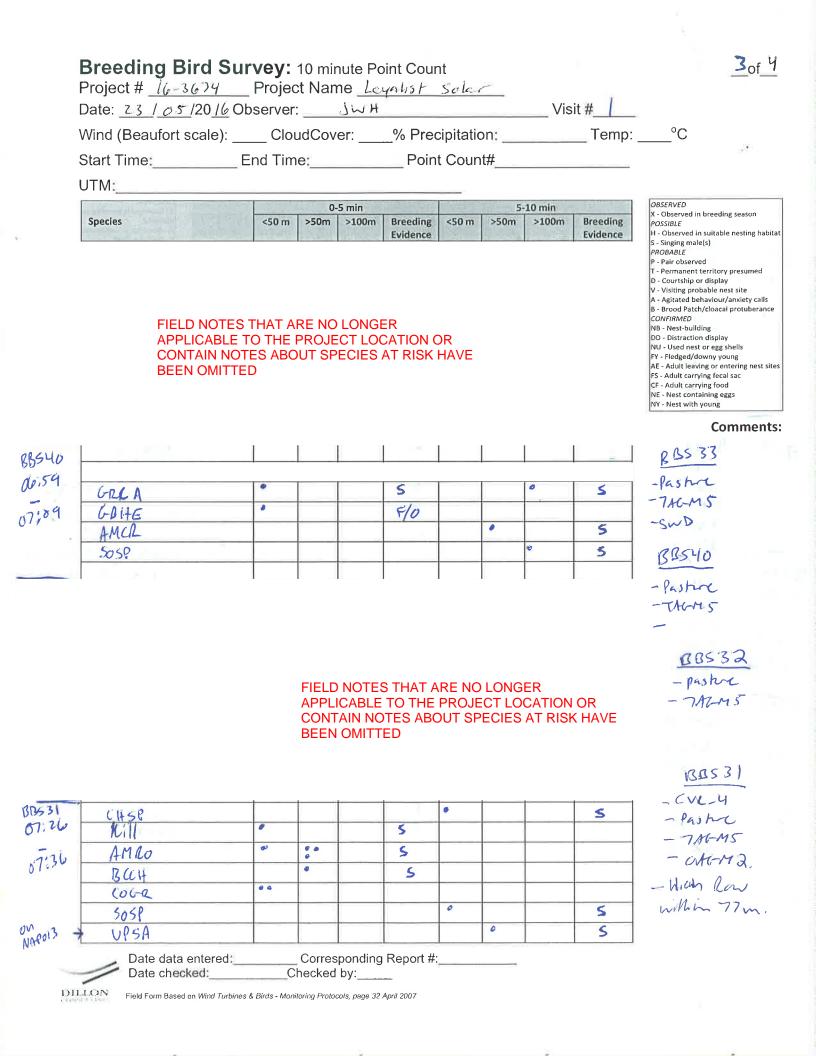


	Wind (Beaufort scale):									: <u>15</u> °C
	Start Time: 05:03	_End Tim	ne:	1142	Poin	t Cour	nt#[	38539	8	
	UTM:		0	E males	N			10 10		OBSERVED
	Species	<50 m	>50m	-5 min >100m	Breeding Evidence	<50 m	>50m	-10 min >100m	Breeding	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting
	AMCR	*	00	0	S	•				5 - Singing male(s) PROBABLE
5 3	Veery	e #			S					P - Pair observed T - Permanent territory presume D - Courtship or display
2	AMRO	0 -			S					V - Visiting probable nest site A - Agitated behaviour/anxiety of
2	YWAR			0	5					B - Brood Patch/cloacal protube
	WITU							0	S	NB - Nest-building DD - Distraction display
ĺ	NOCA					•			5	NU - Used nest or egg shells FY - Fledged/downy young
	GREA					2	•		5	AE - Adult leaving or entering ne FS - Adult carrying fecal sac
	RIPH							•	S	CF - Adult carrying food NE - Nest containing eggs
ļ	BCCH						*		S	NY - Nest with young
	EATO	•			5					BBS 37 Comme
	Modo	·					~		S	Treed Alver/
										OAG-ML
~	BCCH				2			0	S	MAM raw ctop/fa
•										1000 0009114
3	۲. ا							<u>.</u>		
0Hi A										-
54										-
										red squire
7	YWA62			60				0	5	,
7	CAGO				S	00			-	1706 70
L	COYE	0			S				P	1385 38
	RWBL			0	S					-SWD
2	SWSP				5					- MAM
	A. Bitken	4			S					- FOC
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Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

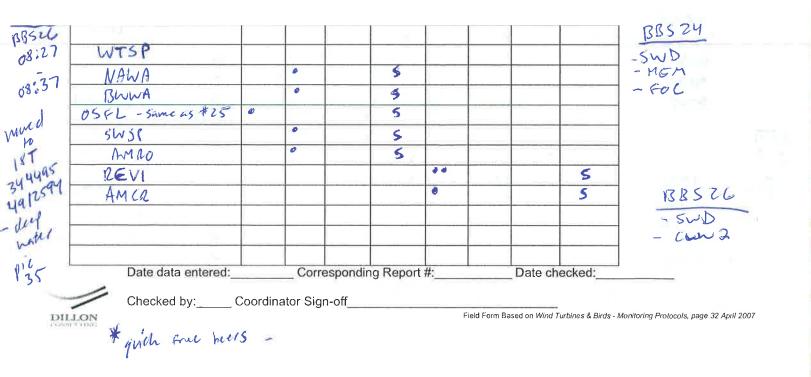
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L	Date: 23 / 05 /20 <u>16</u>	. Observ	-							it #	- ()
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	FIELD NO APPLICA CONTAIN BEEN ON	BLE TO NOTES	THE	PRO	JECT L	OCATIO		/E			<ul> <li>T - Permanent territory presumed</li> <li>D - Courtship or display</li> <li>V - Visiting probable nest site</li> <li>A - Agitated behaviour/anxiety calls</li> <li>B - Brood Patch/cloacal protuberance</li> <li>CONFIRMED</li> <li>NB - Nest-building</li> <li>DD - Distraction display</li> <li>NU - Used nest or egg shells</li> <li>FY - Fledged/downy young</li> </ul>
	APPLICA CONTAIN	BLE TO NOTES	THE	PRO	JECT L	OCATIO		/E			D - Courtship or display V - Visiting probable nest site A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberanc <i>CONFIRMED</i> NB - Nest-building DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young AE - Adult leaving or entering nest si FS - Adult carrying fecal sac CF - Adult carrying food NE - Nest containing eggs NY - Nest with young
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	APPLICA CONTAIN BEEN ON BWWA COYE SOSR	BLE TO N NOTES MITTED	THE ABC	PRO. OUT S	JECT L SPECIE	S AT RIS		/E		\$	D - Courtship or display V - Visiting probable nest site A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberanc <i>CONFIRMED</i> DD - Distraction display ND - Used nest or egg shells FY - Fledged/downy young AE - Adult leaving or entering nest si FS - Adult carrying food NE - Nest containing eggs NY - Nest with young

#### FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED



	Breeding Bird Su Project # $16-3674$ Date: $23 105 12016$ C Wind (Beaufort scale): $2$	_ Proje bserver	ct Nan :	ne <u>L</u> a Wlt	Yalist S	olar			it #(	
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Arcach 50000 08:37 08:53 (VW2	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habitat
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00	NOCA	•			5					D - Courtship or display V - Visiting probable nest site
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ivw2	BHCO 6	é			5					CONFIRMED NB - Nest-building DD - Distraction display
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0027		-								AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
posz7 08:53	OVEN	•	1	*	5					CF - Adult carrying food NE - Nest containing eggs
08.55	REVI		0		5	_				NY - Nest with young
09:03	YWAR		••		5					Comments:
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FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED



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Date data entered: \_\_\_\_\_ Corresponding Report #: \_\_\_\_\_ Date checked: \_\_\_\_\_ Checked by: \_\_\_\_\_

Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

	Wind (Beaufort scale Start Time:_ <u>0725</u> UTM:_ <u>NAP [20</u>	): <u>Ø</u> Clou End Tim	ie:08	er: <u> </u>	Poin	t Coun	on: it#		remp:	Sunrise 0533
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	RBWD	-								D - Courtship or display V - Visiting probable nest site
	WONU		•							<ul> <li>A - Agitated behaviour/anxiety calls</li> <li>B - Brood Patch/cloacal protuberance</li> <li>CONFIRMED</li> </ul>
	WOTH		:					11		NB - Nest-building DD - Distraction display
	SINSP	•	•							NU - Used nest or egg shells FY - Fledged/downy young
	IPEI	٩								AE - Adult leaving or entering nest site FS - Adult carrying fecal sac
	ROCH		-							CF - Adult carrying food NE - Nest containing eggs
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	Date: <u>May/ 23</u> /20 Wind (Beaufort scal	e): 🖉 Clor	JdCov	er: Ø	% Pre	cipitatio	on:		Temp	: <u>/0<sup>®</sup></u> °C
	Start Time: 0502	End Tim	ie: 0	710	Poin	t Cour	ıt#			Sunrise 0533
	UTM: NAPOZI -						-			
				5 min			5	-10 min		OBSERVED X - Observed in breeding season
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018	EWPW			•	<sup>1</sup>		10			S - Singing male(s) PROBABLE
	BETH	*								P - Pair observed T - Permanent territory presumed D - Courtship or display
	RUGR			•						V - Visiting probable nest site A - Agitated behaviour/anxiety calls
	MODO	•	**							B - Brood Patch/cloacal protuberance CONFIRMED
	Yewa		۲							NB - Nest-building DD - Distraction display
	BCCH									NU - Used nest or egg shells FY - Fledged/downy young
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									CF - Adult carrying food NE - Nest containing eggs
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### FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED



Date data entered:\_\_\_\_\_ Corresponding Report #:\_\_\_\_ Date checked:\_\_\_\_\_ Checked by:\_\_\_\_\_

Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

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											PROBABLE P - Pair observed T - Permanent territory presum
						JNGER FLOCATI		•			D - Courtship or display V - Visiting probable nest site
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		N OMIT									CONFIRMED NB - Nest-building
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216	GKOT	1.0		1							FS - Adult carrying fecal sac CF - Adult carrying food
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Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

	t scale):	Clou	udCover	:	% Prec	ipitatic	n:		Temp: _	°C
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	APPL CONT	ICABLE	S THAT / TO THE DTES AB ED	PROJE	ECT LO	CATIO		E		
L		L1								

Breeding Bird Project # /6367	Survey:	10 minute Po at Name	oint Cour	nt 🗆 1 . 1 . 5 7	_					1 of 2
Date: 27 / 05/20			na Le	Clai	r	Vis	it #/		0	
Wind (Beaufort scale	e): <u>()</u> Clou	udCover: <u>4</u> 0	⊇% Pred	cipitatio	on:	/	Temp	): <u>18</u> °	С	
Start Time: 0620	End Tim	ie: 0720	Poin	t Coun	it#/	VAPO	13(N	)		
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# NB - Nest-building DD - Distraction display

- NU Used nest or egg shells

- FY Fledged/downy young AE Adult leaving or entering nest sites FS Adult carrying fecal sac
- CF Adult carrying food NE Nest containing eggs NY Nest with young

### Comments:

### FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE **BEEN OMITTED**

#### GBHC F/0 . \$BS52 WISN 0653-. . S 0703 BAWN . S S YTVI ٠ FISP \* 200 9 6 . EATO NAWY. . . H : • BCCH H ٠ PIWC S 0 Ъ. H FIO KBNU CEDW L Corresponding Report #:\_ Date data entered:



Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

DILLON

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nt	BWA				3			•	H	P - Pair observed T - Permanent territory presumed
	NOFL						•	9	X	D - Courtship or display V - Visiting probable nest site A - Agitated behaviour/anxiety calls
~~ <b>?</b>										B - Brood Patch/cloacal protuberance CONFIRMED
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Checked by:\_\_\_\_\_ Coordinator Sign-off\_\_

Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

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	Wind (Beaufort scale): Start Time: <u>05:44</u>									
	UTM:									
	Species	<50 m	0- >50m	5 min >100m	Breeding	<50 m	5. >50m	-10 min >100m	Breeding	OBSERVED X - Observed in breeding season POSSIBLE
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2544 - 0554	SOSP				S					D - Courtship or display V - Visiting probable nest site
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Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

DILLON Field Form Based on Wind Turbi

	Breeding Bird Sur           Project #         163674           Date:         27         /05         /20         /600	r <b>vey:</b> Proje	10 min ot Nar :0	nute Po ne V/1a	Dint Cour Loyac Le Cla	nt[] [ <u>-1 S 7</u> 11		Vis	□ it #_1	$\Box \Box \Box \underline{Z}_{of}\underline{3}$
	Wind (Beaufort scale):	2_Clo	udCov	ver: <u>60</u>	<u>ン</u> % Pred	cipitatio	on:	_	Temp:	<u>_/6</u> °C
	Start Time: <u>0544</u> E UTM:	End Tim	ne:0	822	Poin			<i>NAP</i> aff Sigr		
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0	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season <i>POSSIBLE</i> H - Observed in suitable nesting habitat
3.	WIFL	•	•		S					S - Singing male(s) PROBABLE
6	SWSP	•			S					P - Pair observed T - Permanent territory presumed D - Courtship or display
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	YEWA				S	A.				A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance
	AMOR			-	H					CONFIRMED NB - Nest-building
	PATO	•			S	1				DD - Distraction display NU - Used nest or egg shells
	RHIBL	ц	:.	ØD	H					FY - Fledged/downy young AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
	MARW	•			H	A				CF - Adult carrying food NE - Nest containing eggs
	ALFI		•		S					NY - Nest with young
	BLJA				1		*		F/0	Comments:
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	BHCO					•			H	
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	EAWP							•	H	

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## FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED

Date data entered:

Corresponding Report #:

Date checked:



Checked by: \_\_\_\_ Coordinator Sign-off\_\_

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	Breeding Bird Sur Project # <u>//63674</u> Date: <u>27/05</u> /20 <u>/6</u> 0t Wind (Beaufort scale): <u>6</u> Start Time: <u>0503</u> E	oserver:	: <u> </u>	er: X	<u>LeC</u> )% Prec	lair cipitatio	on: <u>F</u>	Vis		
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1	AMCR			:	H					B - Brood Patch/cloacal protuberance CONFIRMED
Trued	EATO		•		S					NB - Nest-building DD - Distraction display
Alvan	FISP	::	34 195	•	S/H					NU - Used nest or egg shells FY - Fledged/downy young
	BAWW		:	•	S					AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
	AMRO	:	•		P/S					CF - Adult carrying food NE - Nest containing eggs
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	CANW						•		S	Comments:
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FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED



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Date: <u>27 / 05</u> /20 <u>/</u> Wind (Beaufort scale): Start Time: <u>5:0</u> を	Cloi _ End Tim	udCov ne: <u> </u>	er: <u>80</u> HO	% Prec Poin	t Coun	on: <u>r</u> .t#^	JAPOI	l emp: /	<u>14</u> °C
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NAWA	•			S					NB - Nest-building DD - Distraction display
BAWW		•		S					NU - Used nest or egg shells FY - Fledged/downy young
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	Breeding Bird Sur Project # <u>//63674</u>	r <b>vey:</b> Projec	10 mir t Nan	nute Po	oint Cour LoVAL	nt IST				□ □ □ <u>l_of_3</u>
	Date: <u>30 / 05 /</u> 20 <u>16</u> Ob	server	Do	un	a Le	Clari	r	Vis	it#[	
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505- 515	AMBI			•	S			1		D - Courtship or display V - Visiting probable nest site
010	MODO	•		:	S			7		A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance CONFIRMED
CINII	BTANN				S.					NB - Nest-building DD - Distraction display
FORM	Verr	2			S					NU - Used nest or egg shells FY - Fledged/downy young
Maple, Tronwood,	RBMU	2			S					AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
inthe word.	BMCR			•	S			5		CF - Adult carrying food NE - Nest containing eggs
pricklyash	PIND				H			1		NY - Nest with young
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### FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED



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-	AMCR				S					T - Permanent territory presum D - Courtship or display
7	FISP	•	•		S		·			V - Visiting probable nest site A - Agitated behaviour/anxiety (
	BCCH	3			S					B - Brood Patch/cloacal protube CONFIRMED
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ng Kar	ENTO	9 <b>9</b> 2			S					AE - Adult leaving or entering ne FS - Adult carrying fecal sac
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	Breeding Bird Su Project # <u>163674</u> Date: <u>30 / 05 /2016</u> Wind (Beaufort scale):	_ Projec	10 mii ct Nan	nute Po ne	pint Cour ΔΥΑLΙ	nt∐ 			4	
	Date: 30 / 05 /20 160	Observer	<u> </u>	ayna	Lecle	air		Vis	sit #l	-
	Wind (Beaufort scale): _	3 Clou	udCov	er: Ø	_% Prec	cipitatio	on:	_	Temp	: <u>2/</u> °C
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RBS54	MITSP		:		LVIGENCE				Ludence	S - Singing male(s) PROBABLE
00001	AMRO									P - Pair observed T - Permanent territory presumed
	SOSP	<u></u>						-		D - Courtship or display V - Visiting probable nest site A - Agitated behaviour/anxiety calls
	BHCO									B - Brood Patch/cloacal protuberance
	BUIA			•						NB - Nest-building DD - Distraction display
	GRCA	8								NU - Used nest or egg shells FY - Fledged/downy young
	RWBL	•								AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
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	Date: <u>30 / 05</u> /20 <u>//</u> Wind (Beaufort scale)									<u>/8</u> °C
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Mac	CORA			76	S	1				NB - Nest-building DD - Distraction display
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	PIWO				S					CF - Adult carrying food NE - Nest containing eggs
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Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

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	YewA	121	•		D/S					P - Pair observed T - Permanent te	rritory presumed
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i -	AMCR				S	-				B - Brood Patch/	iviour/anxiety calls cloacal protuberance
-	BRTH		•		S					<i>CONFIRMED</i> NB - Nest-buildin	g
d	AMRO			<u> </u>	V					DD - Distraction o NU - Used nest o	r egg shells
F											, or entering nest sites
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DULLON Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

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	Date: <u>36 / 05</u> /20 <u>16</u> ( Wind (Beaufort scale): <u>,</u>	Clou	udCov	er: <u>90</u>	2% Pred	cipitatio	on:	/	Temp:	<u>/8</u> °C
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Э	FISP		1							V - Visiting probable nest site A - Agitated behaviour/anxiety calls
	MALL				F/0					B - Brood Patch/cloacal protuberance CONFIRMED
	GCKI		•		S					NB - Nest-building DD - Distraction display
	GCK I CORA							¥.	S	NU - Used nest or egg shells FY - Fledged/downy young
	Bach						•		A	AE - Adult leaving or entering nest site FS - Adult carrying fecal sac
	COGR								F/O	CF - Adult carrying food NE - Nest containing eggs
	BTNW					•				NY - Nest with young
BBS57	WITU	-			P					
802- 812 Shrubland	SOSP	*		:	A					
812	BRTH				SP					
Shulland	BWA			32 	P					
1 .	FISP				S					
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Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

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69	AMCR	* *	:		S			-		S - Singing male(s) PROBABLE
-520	Revi	<b>1</b>	0		S					P - Pair observed T - Permanent territory presu
	Bach				S					D - Courtship or display V - Visiting probable nest site
1 ple nwood	AMRO	•			S					A - Agitated behaviour/anxiet B - Brood Patch/cloacal protu CONFIRMED
hubrd	FAWP	•	· · · · ·		S					NB - Nest-building DD - Distraction display
1000.001	DVPN	•	•		S					NU - Used nest or egg shells FY - Fledged/downy young
	BRCR	•			S					AE - Adult leaving or entering FS - Adult carrying fecal sac
	GCEL	•	•		S					CF - Adult carrying food NE - Nest containing eggs
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	roject # <u>/63674</u> ate: <u>3 / / 05</u> /20 <u>/(</u> /ind (Beaufort scale)		. <u> </u>	ayru	N Dec	MIT			Tawana	13 00	
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-				-5 min			1	10 min	Den altera	OBSERVED X - Observed in breeding s	eason
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-	BCCH						•		S	A - Agitated behaviour/an B - Brood Patch/cloacal pr	
										CONFIRMED NB - Nest-building	- 20
	RBNU				S					DD - Distraction display NU - Used nest or egg she	
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Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

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	HOIAIR				~			•	A	CONFIRMED NB - Nest-building
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aton	Revi		•	•	S					NU - Used nest or egg shells FY - Fledged/downy young
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3	Breeding Bird S Project # /6367 Date: 02/06/2016	4 Project	t Nan	ne	LOYAL	IST		Vis	□ it #/	□ □ <u>2</u> of <u>3</u> -
	Wind (Beaufort scale):									
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t	JTM:									
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	BWA							•	S	CF - Adult carrying food NE - Nest containing eggs NY - Nest with young
		I		I				I		Comments:

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# FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE **BEEN OMITTED**



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Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

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	Breeding Bird Sur Project # <u>/63674</u>	Projec	t Nan	ne L	OYALIS	7				□ □ □ <u> </u> of <u>2</u>
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FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED



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,	Date: <u>06 / 03 /</u> 20 <u>/6</u> Wind (Beaufort scale):		udCov	ver: _Ø	_% Pre	cipitatio	on:	Ø	Temp	. <u>14</u> ℃
	Start Time: 0650	_ End Tim	ie:	740	Poin	t Coun	it# <u> </u>	1/au	T-Line	0
	UTM:									
	Crawler			-5 min				0 min		OBSERVED X - Observed in breeding season
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable nesting habi
683	AMRE	:.	•		S					S - Singing male(s) PROBABLE
683 50 - 00	OVENI	•	•		S					P - Pair observed T - Permanent territory presumed
000	BLNW			•	S					D - Courtship or display V - Visiting probable nest site
	CENN		1		S					A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberanc
	BAWW	•	:		S					CONFIRMED NB - Nest-building
	RUA	•	•		S					DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young
	FISP		•	•	S					AE - Adult leaving or entering nest sit FS - Adult carrying fecal sac
	Amor	_		:	Š					CF - Adult carrying food NE - Nest containing eggs
	SCRO	•			A					NY - Nest with young
1	LATTER	•	•		S					Comment
	WOTH		•		S					
	VBSA			•	S					
	Fata	-	•		S					
	COYE		•		S					
	1070									
Sail	a) lan I				0					
207	oven				S					
110	MODU	• (*		-	SA					
	KDOK				A					
	Chro	•	•		<u> </u>					
	EATO				S					
	AMRO	-			V		··			
	BWA			: •	4F/0 2 A 1NB 2 S					
	FISP			F	2.5					
	BAWW	•			S					
	WTSP					•			S	
	SOSP					•			A S	
	SCTA							•	S	
~										
585	EAWP		•	•	S					
-	OVEN	•		•	S					
2/	EATO	•		•	5500					
	BUA			8 5	S					
	WTSP		•		S S					
	Bach	0.			S					
	MODO		•	\$	S					



	Date: <u>06_/03_</u> /20 <u>/6</u> _0 Wind (Beaufort scale): Start Time: <u>0650</u> E UTM:					t Coun	nt#_ <i>Ye</i>		T-Lin	
			0	-5 min				-10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habit
	BAWW	•		*	S				-	S - Singing male(s) PROBABLE
	BTNW					•	•		S	P - Pair observed T - Permanent territory presumed
	RBWO						•	•	2	D - Courtship or display V - Visiting probable nest site
	FISP							•	S	A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance
	WOTH						0		S	CONFIRMED NB - Nest-building DD - Distraction display
	GCTH							5 B 0	S	NU - Used nest or egg shells FY - Fledged/downy young
	AMGO							•	FID	AE - Adult leaving or entering nest sit FS - Adult carrying fecal sac CF - Adult carrying food
38582 125 - 735	VBCU			•	S					NE - Nest containing eggs NY - Nest with young
	BLJA		•		S			(		Comment
	PIWO		1	•	S					
	YEWA	•			S					2
	AMGO		•		S					
	RBGR	-	•		S					
	ALPL		0		S					
			•		S					
	BAWW				S					
	Coye			•	5	*			S	
	INBU								0	
	GCPL								<u> </u>	
-										
		1								



	Project # <u>/636/4</u> Date: <u>03 / 06</u> /20 <u>/</u>	<u></u>		1						
	vvind (Beautort scale)		uacov	er:	)_% Prec	cipitatio	on:	Ø		
:	Start Time: 0455	End Tim	ie: 06	22	Poin	t Coun	nt# <u>γe</u>	law	T-Line	?
I	UTM:					Fi	eld St	aff Sigr	n-off	
	f		0	-5 min			5-	-10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habit
BSIDD	AMRO	1.546			S					S - Singing male(s) PROBABLE
5-22	BAWW	*		. ( <b>•</b> .)	S					P - Pair observed T - Permanent territory presumed
505	BCCH		3	×.	2					D - Courtship or display V - Visiting probable nest site
	NAWA	6			S					A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance CONFIRMED
		3		1			1			NB - Nest-building DD - Distraction display
	HOWR				S		·			NU - Used nest or egg shells FY - Fledged/downy young AE - Adult leaving or entering nest site
	AMCR			::	F/O			-		FS - Adult leaving fecal sac CF - Adult carrying fecal sac CF - Adult carrying food
	EATO				S		•		S	NE - Nest containing eggs NY - Nest with young
	YSFL								S	L
	WAVI								S	halitat character
	DOWO								S	1 pended las
	INBU								0	Comments halitat character recorded by Sean Robinson
BS99	WOTH	•			S					Scottinterio
513- 523	NAWA	:.			S					
523	BWA			•	S					
	oven		1		S					
	BLNW	2			ρ					
	BCCH	•	•		S					
	AMCR			:	FIU					
	RTHU		*		FIO					
	BTNW		3. <b>•</b> 1		S					
	EATO					:	•		A	-
	RBWD						•		S	
	HETH							•	S	-
	BAWW					•			S	-
	FISP							•	S	-
	WIWA					•			S	-
	GCFL						*		S	-
36598	6.CTA				S					
	AMBI		•		S					1
	IN/TSP	:	•		D/S					1
	WTSP RBGR				A					-
	MODO	:			S					-



١	Date: <u>03</u> / <u>06</u> /20 <u>/6</u> 0 Wind (Beaufort scale): _	<u>()</u> Cloi	udCov	, er: <u> </u>	>_% Prec	cipitatio	on:	0	Temp:	
	Start Time: 0455		le: <u>(</u>	044		t Coun	1.# <u> </u>	<u>nou</u>	1 LINE	
1	UTM:									
	Species	<50 m	0- >50m	5 min >100m	Breeding	<50 m	5- >50m	10 min >100m	Breeding Evidence	OBSERVED X - Observed in breeding season POSSIBLE H - Observed in suitable nesting ha
598	BUA									S - Singing male(s) PROBABLE
t	GCFL		•							P - Pair observed T - Permanent territory presumed D - Courtship or display
	OVEN					•	•		S	V - Visiting probable nest site A - Agitated behaviour/anxiety call
	MAWA						•		S	B - Brood Patch/cloacal protuberar
	PIND						•		S S	NB - Nest-building DD - Distraction display
1	BTNW						•		S	NU - Used nest or egg shells FY - Fledged/downy young
	NAWA					:			$\square$	AE - Adult leaving or entering nest FS - Adult carrying fecal sac
-	BANN						•		Š	CF - Adult carrying food NE - Nest containing eggs NY - Nest with young
597	WOTH	•	×.		S					Commen
12-	Veek	•			S					
52	BAWW				2					
	SCTA	124			S					
	GRCA		۱.		S					
	BLJA	•		:	S					
12	Revi		•		8					
	CEDW							<u>1.</u>	FIO	
	oven						•		S	
596	GCFL	:	8		AIS					
5-	BTNW	•	•							
25	BWA	•			V/F-O		<u></u>			
	GWWA	:			P					
1	AMBI		•							
1	OVEN	•								
	FISP		,							
	AMER				F/0					
	CEDW			57	F/O					
-	BAWW	_				•			ρ	
595	EAME			::.	S					-fields to Et W
2-	BWA	1		• :'	3F/0					y irai
22	ĞRSP		:		S					r
26	LEFL	0.00			S					
	WIFL		•		S					



Breeding Bird Sur Project #/63674 Date: 03 / 06 /20/6 Ob	vey:	10 mii	nute Po	bint Cour	nt				<u> 3</u> of <u>3</u>
Project # $_{1030/9}$	Projec			LOVAL	151	. P.L.	- Nis	.i+ # /	
Date. 05/06/20/6 OL		Da	Inal	CLOUIF 9	Sear	NOPI		Tanan	. 17 00
Wind (Beaufort scale):									
Start Time: 0455 E	ind Tim	e:	622	Poin	t Coun	ht# <u>/</u>	ellaw.	1-21ng	2
UTM:									1 Ta
Species	<50 m	0- >50m	-5 min >100m	Breeding	<50 m	5 >50m	-10 min >100m	Breeding	OBSERVED X - Observed in breeding season POSSIBLE
				Evidence				Evidence	H - Observed in suitable nesting habitat S - Singing male(s)
AMOR			2	F/O					PROBABLE P - Pair observed
AMRO	<u>.</u>	•:		S					T - Permanent territory presumed D - Courtship or display
OVEN			19. 	S					V - Visiting probable nest site A - Agitated behaviour/anxiety calls
WAVI					302	191		S	B - Brood Patch/cloacal protuberance CONFIRMED
AMBI							•	2	NB - Nest-building DD - Distraction display
GCFL						•	*	S	NU - Used nest or egg shells FY - Fledged/downy young
<b>VSFL</b>							3	S	AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
MODO						<u>ه،</u>		S	CF - Adult carrying food NE - Nest containing eggs
EAWP						•		S	NY - Nest with young
	1								-
									-
									-
									-
· · · · · · · · · · · · · · · · · · ·									-
	-								-
			_						_
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I	Date: <u>/ 6 / 06 /20/ 0</u>	Observer		DLA	+ RMC	5		Vis	it #	-
	Wind (Beaufort scale)									
;	Start Time: <u>705</u>	End Tim	e:	805	5Poin	t Coun	t#7	-Lin	Mid	dle.
	UTM:							aff Sigr		
			0-	5 min				-10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed In suitable nesting habita
<b>BS90</b>	FISP		•		S					5 - Singing male(s) PROBABLE
65- 715	PIWO			•						P - Pair observed T - Permanent territory presumed
715	NAWA									D - Courtship or display V - Visiting probable nest site
5	OVEN			*	4					A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance
	SCTA	2			AE					CONFIRMED NB - Nest-building
ASEE	Veek			•	5					DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young
8588 18-	FISP		0							AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
128	oven		0							CF - Adult carrying food NE - Nest containing eggs
	SCTA		ø							NY - Nest with young
1	Revi			•						Comments
	6.BHC							0	FID	
0007	EATD					•			S	
	- WOTH						0		Ś	
3587	EATO	•	:		S					
3587 28-	RBGR		•		Ī					
38	BCCH				Þ					
3	Amer			•	S					
	BTNW	: *			ALFY?					
	CHSP	:			FY					
asel	CHSP	•			Ş					
13-	SOSP			1						
8586 13- 153	BUA			•	V					
	HOWA	0			S					
	BTNW		:	•	S S					
	BAWW			•	S					
Ì										
1										



Checked by:\_\_\_\_\_ Coordinator Sign-off\_\_\_\_\_

	Date: <u>/ 6 / 06 /</u> 20/6 0 Wind (Beaufort scale): 5	Observer	:_£	LA	+RMC	5		Vis	it #	<b></b>
- 1	Nind (Beaufort scale): 🤇	<u> </u>	udCov	er: <u>3</u> (	<u>)</u> % Prec	ipitatio	on:	/	Temp:	<u>18 °C</u>
	Start Time: <u>5/0</u>									
	JTM:							J		
ì			0	E unin			-	10 min		OBSERVED
	Species	<50 m	>50m	-5 min >100m	Breeding	<50 m	>50m	10 min >100m	Breeding	X - Observed in breeding season POSSIBLE
-	A			•	Evidence				Evidence	H - Observed in suitable nesting S - Singing male(s)
576	WOTH				5					PROBABLE P - Pair observed
) - (	131 NW	_								T - Permanent territory presume D - Courtship or display
20	Fisp		•							V - Visiting probable nest site A - Agitated behaviour/anxiety c
	Amre	•								B - Brood Patch/cloacal protuber CONFIRMED
	Veck			•						NB - Nest-building DD - Distraction display NU - Used nest or egg shells
	BAWW	•	•			_				FY - Fledged/downy young AE - Adult leaving or entering ne
	OVEN		•	•						FS - Adult carrying fecal sac CF - Adult carrying food
	Revi		-		$\forall$					NE - Nest containing eggs NY - Nest with young
	AMRO					*	•		S	
	AMBO				)			11	F10	Comme
	SOSP					•			S	
577	EAWP	:		•	FY15					
26 - 36	RBGR	•			A					
	GCFL				A					
	OVEN	•			From BAFIL					
	BTNW				A/S					
	FISP			•	S					
	EATO		•							
	GWWA			•	V					
78	WITSP		•		S					
18	EPATD	ь	0							
19	ASP	•		•						
	BWA									
	SCTA									
	RevI			ş	V					
79	EATO	1								
	SCTA		•	•						
	FISP		•							
Ì	OVEN	•								
	AmcR									
	RRAAA									
	GRCA		•							
	RBM GRCA REVI						•			
	Wordpecker Sp WITU	_						•		
ł	L. CITTA							•		



١	Breeding Bird S Project # <u>/63670</u> Date: <u>/6 / 06</u> /20/6 Wind (Beaufort scale)	: <u>Se/</u> Clou	udCov	er: <u>30</u>	<sup>2</sup> % Prec	/ cipitatio	on:	_	Temp:	<u>18 °</u> c
\$	Start Time: <u>570</u> JTM:									
1			0	-5 min			5-	10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting h
	BLIA					4			A	S - Singing male(s) PROBABLE
	- CONI	K			ME (2)	;			NELZ	P - Pair observed T - Permanent territory presumed
50	GCFL		:		S					D - Courtship or display V - Visiting probable nest site A - Agitated behaviour/anxlety ca
[	EAPH	1								B - Brood Patch/cloacal protubera
	WOTH	•								NB - Nest-building DD - Distraction display
	Revi		•							NU - Used nest or egg shells FY - Fledged/downy young
	OVEN			•	*					AE - Adult leaving or entering nest FS - Adult carrying fecal sac
	BUA					•			S	CF - Adult carrying food NE - Nest containing eggs
	WOTH				S	0			J J	NY - Nest with young
81	RBGR	Ð								Comme
	OVEN		•							
	Amck		•	:						
-	_ COGR				*					
				_						



	Breeding Bird Sur Project # 163674	<b>vey:</b> Projec	10 mir ct Nan	nute Po	oint Co	unt e <i>list</i>				<u>_of</u> 2_
	Date: /6_1_06/20/6 Ob	server	: <i>l</i>	NA+	RMC	5			it #	2
	Wind (Beaufort scale):	- Cloi	udCov	er: 🕖	_% Pr	ecipitatio	on:		Temp:	<u>7</u> °C
	Start Time: <u>606</u> Er	nd Tim	e:_6	46	Po	int Coun	t#	MAP.	16/	
	UTM:									
			0-	5 min			5	10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breedin Evidenc	-	>50m	>100m	Breeding Evidence	X - Observed in breeding season <i>POSSIBLE</i> H - Observed in suitable nesting habitat
BBS104	BTNW				5					S - Singing male(s) PROBABLE
606-	WOTH				Ĩ					P - Pair observed T - Permanent territory presumed
616	GWWA									D - Courtship or display V - Visiting probable nest site
0.12	Amre	-		•						A - Agitated behaviour/anxiety calls B - Brood Patch/cloacał protuberance CONFIRMED
	LBBR	•								NB - Nest-building DD - Distraction display
	BRTH		•							NU - Used nest or egg shells FY - Fledged/downy young
	GRCA									AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
	Amer			3						CF - Adult carrying food NE - Nest containing eggs
	CSWA		(e);		V					NY - Nest with young
	Viller						×	•	5	Comments:
	SAVS							•	J	

FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED

875610T 700- 710	-	FISP	•	0	2		
		AmRe	0	۵ ۴			
		BWA					
		AMRO	0 6				
		NOCA			V		
	/	Date data entered: Corresponding Report #: Date checked:Checked by:					



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Breeding Bird Sur Project # <u>163674</u> Date: <u>15 1 06 120 16 Ok</u> Wind (Beaufort scale):	<b>vey:</b> Projec	10 mi ct Nar	nute Po ne	oint Cour	nt alis	ł			Z <sub>of</sub> Z
Date: 15 1 06/20/60k	server	D	LA 7	RMG	- 00.		Vis	sit# こ	
Wind (Beaufort scale):	Clo	udCov	er:	% Pre	cipitati	on:	~	Temp	°c
Start Time: 606 E	nd Tim	ne:(	546	Poin	t Cour	nt# /	MAP	161	
UTM:		-							
		0	-5 min			5	-10 min		OBSERVED
Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habitat
SAVS		•		S					S - Singing male(s) PROBABLE
CHSP		•	•	S					P - Palr observed T - Permanent territory presumed D - Courtship or display
GECA						•		S	V - Visiting probable nest site A - Agitated behaviour/anxiety calls
COGR							4	F10	B - Brood Patch/cloacal protuberance CONFIRMED
									NB - Nest-building DD - Distraction display
									NU - Used nest or egg shells FY - Fledged/downy young
									AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac CF - Adult carrying food
									NE - Nest containing eggs NY - Nest with young
									Comments:
					,				
					5				



	Breeding Bird Su Project # <u>163674</u> Date: <u>15106</u> /20 <u>16</u> 0	bserver	:	NA +	RMG			Vis	it #	-
1	Wind (Beaufort scale): _(		udCov	/er: Ø	% Pred	cipitatio	on:	/	Temp:	7 °C
	Start Time: <u>447</u>									
	UTM:					c ooun		<u>v/// /</u>	009900	
		1	C	)-5 min			5	-10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting ha
BSIOK	COME				S					S - Singing male(s) PROBABLE
47-	Amis)	1		•						P - Palr observed T - Permanent territory presumed
157	SDSP	1								D - Courtship or display V - Visiting probable nest site
	BLIA			8						<ul> <li>A - Agitated behaviour/anxiety call</li> <li>B - Brood Patch/cloacal protuberar</li> <li>CONFIRMED</li> </ul>
	BLIA AMRO	•	•0							NB - Nest-building DD - Distraction display
	AMRP									NU - Used nest or egg shells FY - Fledged/downy young
	YEINB	•	1.9							AE - Adult leaving or entering nest FS - Adult carrying fecal sac
	BETH	•8								CF - Adult carrying food NE - Nest containing eggs
	AMCR							1	FO	NY - Nest with young
	- GECA								S.	Commen
5107	Corre		:	•	5					
n-										AMIND-hesti
70	- hosp		•		S					AMWO-nest c Sugarage
1	GRCA		:		S					anguarter
	Yewn			*	S					
	RB6R		•		S					
	COSV							•	X	
	WBNY								S	
	mer	-						×	2	
	SOSP						2455		S	
	WWA							:	5	
	_ CSWH								2	
10.10	Ameo	:			Ae					
135/08	Amwo				AC					
15	SOSP				S			· · · · · · · · · · · · · · · · · · ·		
BS168 75- 525					20					
	COYE				2					
	RICH		•		5 5 5 5 5					
	BCCH			•	2					
	GRCA WCSP? - RBNU			3.4	S					
-	DAM (14		•							
scing	- KDVVL		•	•	S					
35109	COY-C SOSP		6		>					
37	3031-									
	Woodpecker Sp - JEWN		•	•	¥					

DILLON Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

	Breeding Bird S Project #/6367 Date:151_0612016	Observer		MAT 1	RMB			Vis	sit #	
1	Wind (Beaufort scale):		udCov	ver: <u> </u>	$\geq$ % Pred	cipitatio	on:		Temp:	<u>7</u> °c
	Start Time: <u>447</u>	End Tim	e:	646.	Poin	t Coun	t#			
	UTM:									
			0	-5 min		1	5-	10 min		OBSERVED X - Observed in breeding season
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable nesting ha
ļ	Am60		:		S				condenie	S - Singing male(s) PROBABLE
	Amck			•	S					P - Pair observed T - Permanent territory presumed
										D - Courtship or display V - Visiting probable nest site
	AMRE				- /		•		5	A - Agitated behavlour/anxiety calls B - Brood Patch/cloacal protuberan CONFIRMED
	RBNU								S	NB - Nest-building DD - Distraction display
	_ RWBL								FID	NU - Used nest or egg shells FY - Fledged/downy young
BBYOS	Yewa	:	•		S					AE - Adult leaving or entering nest : FS - Adult carrying fecal sac
542-	AMRO									CF - Adult carrying food NE - Nest containing eggs
552	AM60		•							NY - Nest with young
	BWA			•						Commen
	RWBL	•	•	*						
	COGR	•	1		4					
	1.0511					l		•	C	
	WOTH GUILD						*		>	
× ,	GUWA WBNU								V	
	HOWR						•	U	AE	
- Au	A RATAMAI						*			
38/04	That I A									
	GINNIA									
	Sivervor									

1	Date: <u>07 / 06</u> /20] Wind (Beaufort scale)	): <u>Ø</u> Cloi	udCov	ver: <u>8(</u>	<u>)</u> % Pred	cipitatio	on:	Fog	Temp	<u>14</u> °C
ļ	Start Time: 500	End Tim	e:(	645	Poin	t Coun	t#	STVAP	120	
ł	UTM:									
	Species	150	r	-5 min	Deserting			-10 min	Dura di su	OBSERVED X - Observed in breeding se
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable ne
		LD NOTES T								S - Singing male(s) <i>PROBABLE</i> P - Pair observed
		PLICABLE TO NTAIN NOTE								T - Permanent territory pre D - Courtship or display
h		EN OMITTED								V - Vísiting probable nest s A - Agitated behaviour/an
3	EAKI	•			S			1		B - Brood Patch/cloacal pro CONFIRMED
-	AMRE	•			S					NB - Nest-building DD - Distraction display
s	SOSP		15		T					NU - Used nest or egg shell FY - Fledged/downy young
INV	, BWA				S					AE - Adult leaving or enteri FS - Adult carrying fecal sac
D	BRTH			•	S					CF - Adult carrying food NE - Nest containing eggs
0	AMCR			L	FIO					NY - Nest with young
lew M	EAWP		.*		P					Com
	000111					•			S	
	Veek					:			S	
	BHCO					•			X	
	RBWO							•	S	
*	NOCA					1			ρ	
0	SWSP				S					
-	SCTA	•			S					
	Revi	•			S/V					
	NOWA		•		S					
Ì	AMRO		٠	:•	S S S					
	CSWA		2		S					
Î	COYE							•	NB	
t	LEFL						•		S	
	BCCH								NB S S	
Ì	YEWA						•		NB	
t					_				1.5	
1	EAWP		:		ρ					
·	LEFL	•			NB					
İ	SOSP		٠		S					
t	coye	:	•		P/S					
	AMRO		•		P					
	Cenw		-	•	P					
	SWSP	•			S					
ŀ	Revi				S					



Breeding Bird Sur           Project #	rvey: Proied	10 mil ct Nar	nute Po ne	oint Coui ל הע או ני	nt ST				<u></u> 3 of <u>3</u>
Date: 07/06/20/60	oserver	:	Day	na Le	Clar	i	Vis	it # 2	_
Wind (Beaufort scale):	<u> Clo</u>	udCov	er: <u>80</u>	<u>» % Prec</u>	cipitatio	on:/	69	Temp	: <u>14</u> °C
Start Time: 0500 E	Ind Tim	ne:	645	Poin	t Cour	nt#/	VAPI	20	
UTM:									
		-	-5 min			1	-10 min		OBSERVED X - Observed in breeding season
Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable nesting habitat
AMGO BCCH							101. 1	FIO	S - Singing male(s) PROBABLE
BecH								S	P - Pair observed T - Permanent territory presumed D - Courtship or display
									V - Visiting probable nest site A - Agitated behaviour/anxiety calls
									B - Brood Patch/cloacal protuberance CONFIRMED
									NB - Nest-building DD - Distraction display
									NU - Used nest or egg shells FY - Fledged/downy young AE - Adult leaving or entering nest sites
									FS - Adult teaving or entering rest sites FS - Adult carrying fecal sac CF - Adult carrying food
									NE - Nest containing eggs NY - Nest with young
									Comments
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Date data entered: \_\_\_\_\_ Corresponding Report #:\_ Date checked: \_\_\_\_\_Checked by: \_\_\_\_\_

1	Breeding Bird S Project # <u>/6367</u> Date: <u>/0 / 06 /20/6</u> Wind (Beaufort scale)	<u>//we/</u> Clo	udCov	/er:	_% Prec	cipitatio	on:		Temp:	<u>10 °</u> C
	Start Time: 805		ie:	910	Poin	t Coun	t#/	NAPY	19/	
l	UTM: <u>T-Lin</u>	2								
	Granier		1	-5 min				10 min		OBSERVED X - Observed in breeding season
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable nesting habit
85	GCFL	1			P/A					S - Singing male(s) PROBABLE
-815	MODO		•		S					P - Pair observed T - Permanent territory presumed D - Courtship or display
	BAWW	-	26		S					V - Visiting probable nest site A - Agitated behaviour/anxiety calls
	BLIA		:		S					B - Brood Patch/cloacal protuberance CONFIRMED
	SOSP		:		P/A					NB - Nest-building DD - Distraction display
	wtsp			٠	S					NU - Used nest or egg shells FY - Fledged/downy young
	AMGO		:		S					AE - Adult leaving or entering nest site FS - Adult carrying fecal sac
	CEDW			L	F/0					CF - Adult carrying food NE - Nest containing eggs
	COBR							1	F/O	NY - Nest with young
	EAWP						:		PID	Comment
	RBND							•	S	
	- BTNW					•			A	
85	EATO	8			A					
35	NOCA		2		A					
35	OVEN	•			A					
	AM60			:	S					BBS84 - edited by
	BWA		٠.		S					DLC August 23, 20
	Revi		.*		S					
[	COGR	:		1	CF	I			× .	
[	CEDW			:	S					
ſ	MERL	*			F.10					
[	CANG							⊠ ::		
[	WTSP									
	SOSP					•			CF	
	Bach						9 <b>4</b>	:		
83	AMRO	2 <b>94</b> 35			S					
	MODO				S					
Ì	FISP	•		•	S S					
Ī	BINW			•						
	COGR	•	•		S					
Ī	RAWN				550					
	BAWN EAK (		•	5	S					
	RICH	•			S S					
t	BRTH	۰.			Ă					



e L	Breeding Bird S Project # <u>/63674</u> Date: <u>/01 06 12016</u> Wind (Beaufort scale): Start Time: <u>%05</u> JTM: <u>T-Lin</u>	End Tin 	ne:	910	Poin	t Coun	it#	NAPY	remp. / <i>? [</i>	<u></u> c
ſ	Species	-50	-	)-5 min >100m	Duesding	450 m		10 młn	Dreading	OBSERVED X - Observed in breeding se
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable ne
2	EATO	•			S					S - Singing male(s) PROBABLE P - Pair observed
	NAWA		•		5 5 5 5					T - Permanent territory pre D - Courtship or display
	GRCA	•			S					V - Visiting probable nest si A - Agitated behaviour/anx
ſ	VewA		0		S					B - Brood Patch/cloacal pro
1	AMRO				S					NB - Nest-building DD - Distraction display
T	BCCH	:		•	S					NU - Used nest or egg shell FY - Fledged/downy young
	Ambo		:.	••	250					AE - Adult leaving or enteri FS - Adult carrying fecal sac CF - Adult carrying food NE - Nest containing eggs NY - Nest with young
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,	Breeding Bird Sur Project # 163674	rioje	CL Mai		20470	157	-			
I	Date: 07 /06/20/60	oservei A		Jayr	va Le	lai	r	Vis	it #	
	Wind (Beaufort scale):									: <u>//</u> °C
	Start Time: <u>0645</u> E	Ind Tim	ne: <u>0</u>	5837	Point	t Coun	it#	NAP	021	
1	UTM:					Fi	eld St	aff Sigr	n-off	
			-	-5 min				-10 min		OBSERVED X - Observed in breeding season
	APPLI CONT.	CABLE	TO THE FES AB	E PROJE	LONGER CT LOCA ECIES AT			>100m	Breeding Fuldered	POSSIBLE         H - Observed In suitable nesting habitat         S - Singing male(s)         PROBABLE         P - Pair observed         T - Permanent territory presumed         D - Courtship or display         V - Visiting probable nest site         A - Agitated behaviour/anxlety calls         B - Brood Patch/cloacal protuberance         CONFIRMED         NB - Nest-building         DD - Distraction display         NU - Used nest or egg shells         FY - Fledged/downy young         AE - Adult leaving or entering nest sites         FS - Adult carrying fecal sac         CF - Adult carrying food
3520	AMRO	•	•		S					NE - Nest containing eggs NY - Nest with young
56-	FISP	•	1		S/T					Comments
56-			<u>_</u>		5/1					138521 (EAME)
	COYE	:			NB					Snot in habitat.
	AMGO		•		A					
	BRTH			•	S					
Ì	WOTH			•	S					
	BCCH	•			S					
	EATO							•		
ľ	BLIA							•	F/0	
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Ì	CEOW							:•	F/0	
Ì	WTSP							•		
	A C	PPLICA	BLE TO I NOTE	D THE PE S ABOU	E NO LON ROJECT L T SPECIE	OCATIO		VE		
L	Date data entered:	I	Corre	espondin	g Report #	5		Date che	ecked:	

1	Date: <u>07 / 06 /</u> 20 <u>/</u> 6 Wind (Beaufort scale):	Ø Clo	udCov	ver: <u>/00</u>	)_% Pre	cipitatio	on:	_	Temp	- 14°C
	Start Time: 0645									
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			0	-5 min			5-	10 min		OBSERVED X - Observed In breeding seasor
i i	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable nesting
519	FISP	•	•	1		S				S - Singing male(s) PROBABLE
1-	(DGR	•				Ś				P - Pair observed T - Permanent territory presum
34	EATO	:	•			P/S				D - Courtship or display V - Visiting probable nest site
1	NOCA		:			ρ				A - Agitated behaviour/anxiety B - Brood Patch/cloacal protube
	coye	•				S				CONFIRMED NB - Nest-building
	VewA	•	•		V					DD - Distraction display NU - Used nest or egg shells
	BCCH			•		S				FY - Fledged/downy young AE - Adult leaving or entering no
	BLJA			•		5			S	FS - Adult carrying fecal sac CF - Adult carrying food
	SDSP					•				NE - Nest containing eggs NY - Nest with young
						•		•	FIO	Comme
	AMGO								F70	
38	COGR			:	P/F-0					
2-	BRTH				S					
2	SOSP			•	P/S					
dow- ed	BTBW		1		S					
agw	EATO	•	•		S					
Jar	Bacht			•	S					
	BHCD	•			X					
ľ	01100	_								
SIL	SAVS	:			P					
1.00	FISP	•	•		S					
10	BRTH		•		S					
				•	$\overline{\mathbf{v}}$					
-	MALL				F/0					
	MALL				7/0					
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-	BLJA					-	•		F/0	
F	NOCA					•	•			
-	AMRO								S 8	
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	Breeding Bird Su Project # <u>/63674</u> Date: <u>07 /06 /</u> 20 <u>16</u> 0	<b>rvey:</b> _Projec	10 mii ct Nar : _ <u>\</u> \_	nute Po ne na	Dint Cou Loya	nt list		Vis	it #	<u>3 of 3</u>
	Wind (Beaufort scale):									
	Start Time: <u>645</u> UTM:	End Tim	ie:2	337	Poir	nt Coun	t#_∧	(APO2	1	
			0.	-5 min		1	5-	10 min		OBSERVED
-	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habitat
BBSIS	•									S - Singing male(s) PROBABLE
810-	EATO	1	•		P/S					P - Pair observed T - Permanent territory presumed D - Courtship or display
820	BWA		•		S					V - Visiting probable nest site A - Agitated behaviour/anxiety calls
	SAVS				$\vee$					B - Brood Patch/cloacal protuberance
	COSN			•	S		+)			NB - Nest-building DD - Distraction display
	BRTH			•	S					NU - Used nest or egg shells FY - Fledged/downy young
	NOCA			•	S					AE - Adult leaving or entering nest sites F5 - Adult carrying fecal sac
	FISP			•	S					CF - Adult carrying food NE - Nest containing eggs NY - Nest with young

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## FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED

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Date data entered: \_\_\_\_\_ Corresponding Report #: \_\_\_\_\_ Date checked: \_\_\_\_\_ Checked by: \_\_\_\_\_

V	Vind (Beaufort scale): <u>/</u>	<u>ve/</u> Clo	oudCo	ver: <u>10</u>	2% Pred	cipitati	on:	/	Tem	o: <u>/0</u> °C
S	Start Time: 07/0	End Tir	ne:	835	Poin	t Cour	nt#/	VAPII	8	_
L	JTM:					Fi	ield S	taff Sig	n-off	
Γ	Species	<50 m		0-5 min >100m	Breeding	<50 m	>50m	5-10 min >100m	Breeding	OBSERVED X - Observed in breeding season
										<ul> <li>ROBABLE</li> <li>Pair observed</li> <li>Permanent territory presumed</li> <li>Courtship or display</li> <li>Visiting probable nest site</li> </ul>
	A	PPLICAB	LE TO NOTES	THE PRC	NO LONG JECT LO SPECIES	CATIO		Έ		<ul> <li>Agitated behaviour/anxiety calls</li> <li>Brood Patch/cloacal protuberance :ONFIRMED</li> <li>IB - Nest-building</li> <li>ID - Distraction display</li> <li>IU - Used nest or egg shells</li> <li>Y - Fledged/downy young</li> <li>.E - Adult leaving or entering nest sites</li> <li>S - Adult carrying fecal sac</li> <li>F - Adult carrying food</li> <li>IE - Nest containing eggs</li> <li>IY - Nest with young</li> </ul>
<b>2</b> μ ⊨	A C B	PPLICAB	LE TO NOTES	THE PRC	DJECT LO SPECIES	CATIO		′E		I - Brood Patch/cloacal protuberance CONFIRMED IB - Nest-building ID - Distraction display IU - Used nest or egg shells Y - Fledged/downy young IE - Adult leaving or entering nest sites S - Adult carrying fecal sac F - Adult carrying food IE - Nest containing eggs
	AMCR	PPLICAB ONTAIN EEN OMI	LE TO NOTES	THE PRC	SPECIES	CATIO		′E		<ul> <li>Brood Patch/cloacal protuberance CONFIRMED</li> <li>IB - Nest-building</li> <li>ID - Distraction display</li> <li>IU - Used nest or egg shells</li> <li>Y - Fledged/downy young</li> <li>IE - Adult leaving or entering nest sites</li> <li>S - Adult carrying fecal sac</li> <li>F - Adult carrying food</li> <li>IE - Nest containing eggs</li> <li>IY - Nest with young</li> </ul>
3-	AMCR SOSP		LE TO NOTES	THE PRC	SPECIES	CATIO		'E		<ul> <li>Brood Patch/cloacal protuberance CONFIRMED</li> <li>IB - Nest-building</li> <li>ID - Distraction display</li> <li>IU - Used nest or egg shells</li> <li>Y - Fledged/downy young</li> <li>IE - Adult leaving or entering nest sites</li> <li>S - Adult carrying fecal sac</li> <li>F - Adult carrying food</li> <li>IE - Nest containing eggs</li> <li>IY - Nest with young</li> </ul>
3-	AMCR SOSP NOCA			THE PRC	F/O SPECIES	CATIO		É		<ul> <li>Brood Patch/cloacal protuberance CONFIRMED</li> <li>IB - Nest-building</li> <li>ID - Distraction display</li> <li>IU - Used nest or egg shells</li> <li>Y - Fledged/downy young</li> <li>IE - Adult leaving or entering nest sites</li> <li>S - Adult carrying fecal sac</li> <li>F - Adult carrying food</li> <li>IE - Nest containing eggs</li> <li>IY - Nest with young</li> </ul>
3-3-3-	AMCR SOSP NOCA CORA			THE PRC	SPECIES	CATIO		'E		<ul> <li>Brood Patch/cloacal protuberance CONFIRMED</li> <li>IB - Nest-building</li> <li>ID - Distraction display</li> <li>IU - Used nest or egg shells</li> <li>Y - Fledged/downy young</li> <li>IE - Adult leaving or entering nest sites</li> <li>S - Adult carrying fecal sac</li> <li>F - Adult carrying food</li> <li>IE - Nest containing eggs</li> <li>IY - Nest with young</li> </ul>
524 53- 13 5-	AMCR SOSP NOCA			THE PRC	F/O SPECIES	CATIO		É	S	<ul> <li>Brood Patch/cloacal protuberance CONFIRMED</li> <li>IB - Nest-building</li> <li>ID - Distraction display</li> <li>IU - Used nest or egg shells</li> <li>Y - Fledged/downy young</li> <li>IE - Adult leaving or entering nest sites</li> <li>S - Adult carrying fecal sac</li> <li>F - Adult carrying food</li> <li>IE - Nest containing eggs</li> <li>IY - Nest with young</li> </ul>

FIELD NOTES THAT ARE NO LONGER
APPLICABLE TO THE PROJECT LOCATION OR
CONTAIN NOTES ABOUT SPECIES AT RISK HAVE
BEEN OMITTED

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t #: Date checked:



Checked by: \_\_\_\_\_ Coordinator Sign-off\_\_\_\_\_

	Breeding Bird Sur Project # <u>/63674</u> Date: <u>08 / 06 /</u> 20 <u>/6</u> 0b	Projectoserver	ct Nan :	ne yna L	Loyali: eclair	st d Ca	Le	Vis	.it #	<u>2 of 2</u>
	Wind (Beaufort scale):		udCov	er: <u>///</u>	>% Pred	cipitatio	on:	>	Temp	: <u>/o_</u> °C
	Start Time: 07/0 E	nd Tim	ie:0	835	Poin	t Coun	t#			
	UTM:						-			
			0-	5 min		1	5-	10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habitat
BBS26	EAPH	•			V					S - Singing male(s) PROBABLE
825 -	FISP	•	•	:	TIS					P - Pair observed T - Permanent territory presumed
835	EAWP			•	S					D - Courtship or display V - Visiting probable nest site
•	BAWW	•		•	S					A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance CONFIRMED
	REVI		•		S					NB - Nest-building DD - Distraction display
	NAWA		•	•	S					NU - Used nest or egg shells FY - Fledged/downy young
	RWBL							•	F/0	AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
	WTSP						٠		S	CF - Adult carrying food NE - Nest containing eggs
	CEDW						•		S	NY - Nest with young
	YBSA							•	H	Comments:
	YEWA						•		S	

				0		 
Date data entered:		Corres	ponding	Report #		 
Date checked:	CI	hecked	by:	Report #:	 	



	Breeding Bird S Project # <u>/63674</u> Date: <u>09 / 06 /</u> 20/6	Observer	·	ayna	ulla,	rule	Cank	Vis	nt #
	wind (Beautort scale):	<u>w@7</u> Cio	udCov	er: <u>70</u>	<u>0</u> % Pre	cipitatio	on:		Tem
	Start Time: 0500	End Tim	ne:	120	Poin	t Coun	t#/	14949	2
	UTM:								
			0	-5 min			5	-10 min	
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence
54	AMCR		•		S				Luidence
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)	COLO			•	F/0				
	BCCH		5.						
l á	AMRO	•	:	: •	S S				
now	FISP	•			V/S				
	NOCA		•	•.	S				
	AMBI			•	S				
Î	CHSP		:	•	S				
-	COYE				P				
	BRTH						•	•	S
	BAWW						•	:	S
	EATO							•	S
	GRCA								S
8	WTSP							•	S
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	BTNW		•	•	S				
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	EATO		•		S				
	BOCH		••••		S/T				
	REVI			•	S				
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68	coye		•		S				
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I	Date://20	Observer	:		oint Cour <i>Loya</i> i			Vis	it # 2	-
'	Date://20 Wind (Beaufort scale): [		udCov	ver: <u>///</u>	<u>&gt;_% Prec</u>	cipitatio	on:	_	Temp	: <u>7</u> °C
	Start Time: 500									
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		· ·	0	-5 min			5	-10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	<ul> <li>X - Observed in breeding season</li> <li>POSSIBLE</li> <li>H - Observed in suitable nesting habi</li> </ul>
8.	OLLER		•	•	S				CVIDENCE	S - Singing male(s) PROBABLE
8 ont	CEPW	•			2 = 10					P - Pair observed T - Permanent territory presumed
	BWA			•	S					<ul> <li>D - Courtship or display</li> <li>V - Visiting probable nest site</li> </ul>
	100071			•	3					<ul> <li>A - Agitated behaviour/anxlety calls</li> <li>B - Brood Patch/cloacal protuberance</li> </ul>
569	EAWP	•			S/V			1		CONFIRMED NB - Nest-building
3-	WOTH				S					DD - Distraction display NU - Used nest or egg shells
3-	BCCH	•	•		S					FY - Fledged/downy young AE - Adult leaving or entering nest si FS - Adult carrying fecal sac
	WAVI		0		CF			-		CF - Adult carrying food NE - Nest containing eggs
	SCTA				01			•	S	NY - Nest with young
	OVEN							•	S	Comment
	SWTH							•	S	BBS71 OVEN
	<u>Sivin</u>								5	> nest baind 45, of point > 3 leggs a 2 nes @~1-2 days a
11	EAWP	•	•		S					of point
	OVEN		:					7		Bal-2 days
-2	BWA		•	•	Ne/NY S					C 1 Lunyar
	RBGR		+		S					
	SCTA	:		•	P/S					
	Revi	•	:		S					
210	RBGR	0			S				-	
-	EAWP		:		P					
40	CEDW							:	S	
		( )								
574	BAWW		•	•	S					
5-	HAWO	•			S					
6	RBNU	¢			S					1
	BTNW						•	•	S	
	BWA							•••	F10	
	OVEN						0	•	S	1
	BCCH						*		S	1
75	BINW	•	0		S					
3-	GCFL	•		.0	S					1
3	EATO	•	•		S					
	BAWW		٠		S					
	AMGO			:	F/0					

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	Date: <u>09 / 06 /</u> 20 <u>/8</u> Wind (Beaufort scale)									
	Start Time: 0500	•								
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			0	-5 min		· ·		-10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habit
BBS13	BINW			•	S					S - Singing male(s) PROBABLE
725 - 735	FISP		•		S					P - Pair observed T - Permanent territory presumed
735	EATO		•		S					D - Courtship or display V - Visiting probable nest site A - Agitated behaviour/anxlety calls
	BANN	•			S					B - Brood Patch/cloacal protuberance
	WOTH		•		S					NB - Nest-building DD - Distraction display
1	oven			•	S					NU - Used nest or egg shells FY - Fledged/downy young
9	NER		•		S					AE - Adult leaving or entering nest site FS - Adult carrying fecal sac
	CMWA							•	S	CF - Adult carrying food NE - Nest containing eggs
	BWA						•		S	NY - Nest with young
										Comments
BESTO	oven	:			Ne					BBS70 OVEN > nest Journal 25m north of point > 4 eggs.
748-	WOTH	•			S					> nest found point
758	Revi	•			A					> 4 eggs.
	RBGR	•			S					, , , , , , , , , , , , , , , , , , , ,
1.0 1.	BWA						:	•	S	
baby!	EAWP							•	S	
baby	CEDW						•		F/0	
BBS67	EAWP	•	•		S					
807-	REVI	:	•		P/S					
817	OVEN	•			A					
	RB6R						0		A	
	NOWA							•	S	
BBS60	BTNW	10 @	•	·	PIS					
837-	AMGO	•	•		P/S P					
847	CHSP	•	•							
0-11	WOTH		•		S/√ S					
1	BLJA			•	S					
	SOSP	:	•	•	S					
	BTBW				5			•	S	
	BCCH					•	•		S	
	AMGO					•			F/0	
	CODW	_						L	F/0 F/0	



St	/ind (Beaufort scale): tart Time:のの TM:									
				5 min				10 min		OBSERVED X - Observed in breeding se
9	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable ne
5	EATO	•	•							S - Singing male(s) PROBABLE P - Pair observed
	Amcr		•							T - Permanent territory pre D - Courtship or display
	BTINN		•							V - Visiting probable nest si A - Agitated behaviour/anx
	BAWW		•	•						B - Brood Patch/cloacal pro CONFIRMED
	GRCA	:								NB - Nest-building DD - Distraction display
	CHSP	•								NU - Used nest or egg shell FY - Fledged/downy young
										AE - Adult leaving or enter FS - Adult carrying fecal sad
_										CF - Adult carrying food NE - Nest containing eggs NY - Nest with young
										Com
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<b>Breeding Bird Sur</b>	vey:	10 mir	nute Po	oint Cour	nţ.,				_	<u>/of_</u> 4
Project # 163674	Projec	t Nan	ne	lega	list					
Date: 14 106 12016 Ob	server:	_DC	A+	Rya.	n 60	diney	∠_ Vis	sit #		
Wind (Beaufort scale);/////	<u>e/</u> Clou	IdCov	er:	)_% Pred	cipitatio	on:	~	Temp:	<u> </u>	
Start Time: <u>445</u> El								12, 13		
UTM:										
		0-	5 min			5-	10 min		OBSERVED	
Species	<50 m	>50m	>100m	Breeding	<50 m	>50m	>100m	Breeding	X - Observed in breeding se POSSIBLE	
EWPW			6	Evidence				Evidence	H - Observed in sultable ne S - Singing male(s) PROBABLE	sting nabitat

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## FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE **BEEN OMITTED**

38548	FISP			_	S				
03-53	FISP EAKI	:			A				
								1	
	AMBI			3 <b>4</b> .	S				
0	SAVS	•			5				
	AMRO				S S				
	BRTH			•	S				
	COSV							X	
12	Bach							X S S FID	
	EATO						×.	S	
	BATO MALL						L	FID	
*	UPSA					٠	1		4
8549 20- 530	BRITH								
20-	Amcr PTSP			X					
530	FISP								
	AMBI								
	EATD	•							
				1		 -1-			
	CEDW								
	Date data entered		Corre	sponding	, Report #:		14		



Breeding Bird Sur Project # 163674	<b>Vey:</b> 10 minute Po Project Name				2_of_/
Date: 14 106 /20/6 Ob		RMG	Vis	it #	
Wind (Beaufort scale)	<u>)</u> CloudCover: _Ø	% Precipitation	on:	Temp:	<u> </u>
Start Time: <u>445</u> E	nd Time: 8/0	Point Cour	nt# <u>NAP //</u>	12,13	
UTM:					
Species	0-5 min <50 m >50m >100m	Breeding <50 m Evidence	5-10 min >50m >100m	Breeding	OBSERVED X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habitat
					nging male(s) IABLE ir observed ir manent territory presumed ourtship or display siting probable nest site gitated behaviour/anxiety cails 'ood Patch/cloacal protuberance <i>FIRMED</i> Nest-building Distraction display

Used nest or egg shells
ledged/downy young
Adult leaving or entering nest sites
dult carrying fecal sac

dult carrying fecal sac dult carrying food

Vest containing eggs Vest with young

Commente

## FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED

BBS52	GCFL				A		
605- 618	GCFL OVEN			•	S		
618	EATD COBR PISP COLO		•		S		
	COBR				CF		
	FISP				S		
	COLO			•	S		
	NOCA EAWP	•			S		
	EAND				S		
	BRTH RWBL DCCH					•	2
	RWBL					F	FIO
	BCCH						S
	WISP					•	S
	RENI						F10
	Date data entere		Corre	espondir d by:	ng Report #:		



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Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

	Breeding Bird Sur Project # <u>163674</u> Date: <u>14 1 66 1</u> 20 <u>/6</u> 0b Wind (Beaufort scale):/ <u>Wr</u>	<b>vey:</b> Projec server	10 mir ct Nan	nute Po ne <u>6</u> 10 7	oint Cour Malix RMG	nt vt		Vis	it #2_	<u>3_of_/</u>
	Wind (Beaufort scale):	2/ Cloi	udCov	er: _Ø	% Pred	cipitatio	on:	~	Temp	<u>5</u> °C
	Start Time: <u>445</u> E	nd Tim	e:	810	Poin	t Coun	t#/	APII,	12,13	
	UTM:									
		-	0-	5 min			5-	10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habitat
86553	EANIP	•			A					S - Singing male(s) PROBABLE
628	SUSP	•	•		S					P - Pair observed T - Permanent territory presumed
638	RWBL	:	لن	5.5	SX					D - Courtship or display V - Visiting probable nest site
	COYE	•	•		Ś					A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance CONFIRMED
	LEFL		•		S					NB - Nest-building DD - Distraction display
	MARW		•	•	S					NU - Used nest or egg shells FY - Fledged/downy young
	AmcR			• •	S					AE - Adult leaving or entering nest sites ES - Adult carrying fecal sac
	FATD		٠		S					CF - Adult carrying food NE - Nest containing eggs
	AMRO					<b>b</b>	9		S	NY - Nest with young
	WAVI						0		S	Comments:
	BAWW								5	
	ON/PN					•			2,	

38543 257:- 767	ALFL LOPL VEWA RWBL CHSP AMGO BCCH CODW COGR FISP		•		S		S
657-	LEPL		•		S		
707	VewA	•			S		
	RWBL	14			s/X		
	CHSP	p	1		S/A		
	AMGO		*	*	IF/O S		
	BCCH	•			A		
	CEDW				ρ		
	COBR	6			ρ		
	FISP	•	0		S		
. ·							



Date data entered:\_\_\_\_\_ Corresponding Report #:\_\_\_\_\_ Date checked:\_\_\_\_\_Checked by:\_\_\_\_\_

Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

	Breeding Bird Sur Project # 163674	<b>vey:</b> Projec	10 mir t Nan	nute Po ne(	pint Cour Mall	nt st			7	<u>4of</u>
	Date: <u>/// / 06/20/6</u> Ob	server	DL	CI	RMG			Vis	it #	
	Date: <u>// / 06/20/6</u> Ob Wind (Beaufort scale)		ldCov	er: _Ø	_% Prec	cipitatio	on:		Temp:	<u>5</u> °c
	Start Time: 445 E	nd Tim	e:	810	Poin	t Coun	t#_//	AP 11	,12,13	)
	UTM:					Fi	eld Sta	aff Sigr	n-off	
			0-	5 min			5-	10 min		OBSERVED
5	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed In suitable nesting habitat
BB542 712-	CHSP	•	•		A					S - Singing male(s) PROBABLE
712-	ALPL		<b>3</b>	<	S					P - Pair observed T - Permanent territory presumed
722	BCCH				S					D - Courtship or display V - Visiting probable nest site
	FISP		:		S					A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance
	EUST			,	FID					CONFIRMED NB - Nest-building DD - Distraction display
	EAKI			¥.	FID					NU - Used nest or egg shells FY - Fledged/downy young
	AMGO		1.		S					AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
	AMRO		•		S			1		CF - Adult carrying food NE - Nest containing eggs
	NOCA		-		S					NY - Nest with young
	BLIA				~				S	Comments:
	GLCA					Э.			A	
	COSN						66		X	
_	WAVI						•		S	

BB46	BAWW	4			S		
741- 751	BAWW PISP	Q			S		
751	EATO			•	S		
	AMRO BLJ A		20		2		
	BUA		•		S		
	VIRA					•	S
BBS4	VIRA	:			ρ		
8654   800 810	SWSP		•	9	S		
810	SWSP YEWA BAWW	•			SIP		
	BAWW				S		
	BRTH			ø	Š,		
	AMGO				SIP		
	CEDW			•, •	4-F10 S		
	Date data ente	red:	Cor	respondi	ing Report #:	Date ch	ecked:



Checked by: \_\_\_\_ Coordinator Sign-off\_

[	Date: 14 1 06 120 16	Observer	:_[	NC ;	+RMG			Vis	it #	_
V	Breeding Bird S Project # <u>/63670</u> Date: <u>/ 4 / 06</u> /20 <u>/6</u> Nind (Beaufort scale):	NR / Clo	udCov	ver:	>% Pre	cipitatio	on:		Temp	9°C
c	Start Time: <u>820</u>	End Tim	. C	AUN	Poin	t Coun	HH /	MANZ		· ····
	JTM:		ic	110	F 0111					ē
r	J T IVI							aff Sig	1-011	1
	Species	<50 m	0	-5 min >100m	Breeding	<50 m	5- >50m	10 min >100m	Breeding	OBSERVED X - Observed in breeding season
iom l	6.0014				Evidence				Evidence	POSSIBLE H - Observed in suitable nesting hab S - Singing male(s)
0374	GRCA				A					PROBABLE P - Pair observed
20-	Revi				S					T - Permanent territory presumed D - Courtship or display
30	CIRO				0					V - Visiting probable nest site A - Agitated behaviour/anxiety calls
	CHSP	•		•	S					B - Brood Patch/cloacal protuberand CONFIRMED
-	KWBL				S					NB - Nest-building DD - Distraction display
	MODO				S					NU - Used nest or egg shells FY - Fledged/downy young AE - Adult leaving or entering nest s
-	LIDI. 4A				AS					FS - Adult carrying fecal sac CF - Adult carrying food
	Veutt				3				S	NE - Nest containing eggs NY - Nest with young
	CEDW								Flo	Comment
ł	GRAV								X	AME
<u>.</u>	BMCP							2.	S	JuldonEdW
-	BMCR							•	20	Fields on E «W Sides 50-75m
	- AMRC								SS	1,1000,00
REGE	CHSP			•	S					
B\$95			•		2					
32- 342	SWSP Amlo	•			S					ů.
	Revi		1.		S					
-	Amcr	-	•		S					
54	BLCH				S					
	OVEN				Ś					
	-									
8596	Amre	0			2					
10-	ULER		•		S					
16-	PISP			0	S					
	Amro									
	RB6R	•			5					
	GCPL								A	
	BCCH						٠		8	
	BAWW								25	
	EATD						4		S	
	OVEN								S	
108 108	OVEN		•		S					
58-	FISP				S					
108 [	SCTA	2		U	AS					



	Breeding Bird S Project # <u>}63674</u> Date: <u> 4   06</u> /20 <u>]6</u>	Observer	: 6	)LA	RMG			Vis	it #	
	Wind (Beaufort scale):	Mal Clo	udCov		% Pred	ninitatio	<u>מר</u>		Temn	- 9 °C
	Start Time: 820									0
			le/	10		t Couri	l#/	ITTP ZC	9	
	UTM:									n E
	Species	<50 m	0- >50m	-5 min >100m	Breeding	<50 m	5- >50m	10 min >100m	Breeding	OBSERVED X - Observed in breeding season POSSIBLE
					Evidence				Evidence	H - Observed in suitable nesting habit S - Singing male(s)
	DOWD			•	S					PROBABLE P - Pair observed
	WOTH			•	S					T - Permanent territory presumed D - Courtship or display
	- GCFL			•	S					V - Visiting probable nest site A - Agitated behaviour/anxlety calls
BBS 98	EATO				A					B - Brood Patch/cloacal protuberance CONFIRMED
110- 920	BTNW	•	•		S					NB - Nest-building DD - Distraction display
920	BAWW		•		S					NU - Used nest or egg shells FY - Fledged/downy young
	WTSP		*		S					AE - Adult leaving or entering nest site FS - Adult carrying fecal sac CF - Adult carrying food
	Coye		· _		S					NE - Nest containing eggs NY - Nest with young
	BCC+J,		4 * 4		S					
	- OVEN					•		0	S	Comments
BBS99	BCCH		•		5					EAME
122-	CSWA	•	•		S S					least size of road
932	EATD	•	•							Least size of road WITH & near @
1.00	BAWW		•	•	S					Qhian Q
3. <sup>0</sup>	Pm60				S					Francis
	RUGR							٠	X	
	VewA						•		S	
335100	Pim60	2	1.1		S					
125 -	WITH	•			Ae					
945 135-	EATD		6	0	S					
995	EAME			•	S					
	PINO	•			S					
	WAVI		•		S					
	ENST			6	F/0					
	HOWR						0		5	
	YE WA NAWA					•	•		2 2 2	
	NAWA						٠		S	
					-					
									ń	1

	Breeding Bird So Project # <u>/63674</u> Date: <u>06 / 06</u> /20 <u>16</u> Wind (Beaufort scale):/ Start Time: <u>0645</u> UTM:	Projec Observer <u>v@2</u> Clou	t Nan Dau udCov	ne yna <i>la</i> er: <u>/00</u>	Loya/19 2 Clair 2 % Prec	st d (a sipitatio	on:		it # <u>2</u>  	 : _/ <u>0_</u> °C
		1	0	5 min				10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in sultable nesting habitat
BB27	OVEN	•		•	S					S - Singing male(s) PROBABLE
835- 845	Revi		:		SIP					P - Pair observed T - Permanent territory presumed
845	BLIA			Ľ	3 510					D - Courtship or display V - Visiting probable nest site
	coye	2			AIS					A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance CONFIRMED
	FISP		:		SIP					NB - Nest-building DD - Distraction display
	BRTH					•			S	NU - Used nest or egg shells FY - Fledged/downy young
-	SWSP					•	•		S	AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
	NOWA							•	S	CF - Adult carrying food NE - Nest containing eggs NY - Nest with young

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FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE BEEN OMITTED



Date data entered: \_\_\_\_\_ Corresponding Report #:\_\_ Date checked: \_\_\_\_\_ Checked by: \_\_\_\_\_

E	Breeding Bird S	urvey:	10 mii	nute Po	pint Cour	nt 🔔				<u>/of</u>
P D	Project # <u>/63674</u> Date: <u>08/06</u> /20 <u>16</u>	Observer	: <u> </u>	ne <u></u> wha	lello	r + 1	<i>Calo</i>	Vis	it #	_
V	Vind (Beaufort scale)	Vel Cloi	udCov	er: <u>/0</u>	2% Pred	cipitatio	on:	/	Temp	: <u>10 °</u> C
S	Start Time: 446	_ End Tim	ie:	710	Poin	t Coun	it#/	IAP 13	S	
U	JTM:									
ſ			0-	5 min			5-	10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed In suitable nesting habitat
IS31	COSN			•	S					PROBABLE
46-	KILL	•								T - Permanent territory presumed
56	SAVS		•		P/S					V - Visiting probable nest site
_ (مل	SOSP	•			$\vee$					B - Brood Patch/cloacal protuberance
stre	GRSP			•	S					NB - Nest-building DD - Distraction display
	AMRO	•	•		S					NU - Used nest or egg shells FY - Fledged/downy young
	YEWA		•		S					AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
	MALL				F/O					NE - Nest containing eggs
	4								-12	NY - Nest with young
	RUGR							•	S	Comments:
	MODO						•		Р	
\$31 46-	COSN KILL SAVS SOSP GRSP AMRO YEWA MALL RUGR	•	>50m	>100m	Evidence S S P /S V S S S	<50 m	>50m		Evidence	<ul> <li>X - Observed In breeding season POSSIBLE</li> <li>H - Observed In suitable nesting h</li> <li>S - Singing male(s) PROBABLE</li> <li>P - Pair observed</li> <li>T - Permanent territory presumed</li> <li>D - Courtship or display</li> <li>V - Visiting probable nest site</li> <li>A - Agitated behavlour/anxiety ca</li> <li>B - Brood Patch/cloacal protubers</li> <li>CONFIRMED</li> <li>NB - Nest-building</li> <li>DD - Distraction display</li> <li>NU - Used nest or egg shells</li> <li>FY - Fiedged/downy young</li> <li>AE - Adult carrying fecal sac</li> <li>CF - Adult carrying food</li> <li>NE - Nest containing eggs</li> <li>NY - Nest with young</li> </ul>

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DILLON

Date data entered: \_\_\_\_\_ Corresponding Report #: \_\_\_\_ Date checked: \_\_\_\_\_Checked by: \_\_\_\_\_

	Breeding Bird Su Project # <u>/63674</u> Date: <u>08 / 06</u> /20 <u>/6</u> Wind (Beaufort scale):/ Start Time: <u>44</u> /6	<u>V@1</u> Clou End Tim	udCov le:	er: <u>700</u> 710	Pred Poin	t Coun	t#/	VAPI	35	<u>///_</u> °C
1	UTM:		_			F		aff Sigr	1-0ff	
	Species	<50 m	0- >50m	-5 min >100m	Breeding Evidence	<50 m	5- >50m	-10 min >100m	Breeding Evidence	OBSERVED X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habit
BBS34	VEER		•		S					S - Singing male(s) PROBABLE
526-					Ae					P - Pair observed T - Permanent territory presumed
536	YEWA SOSP	۰			A					D - Courtship or display V - Visiting probable nest site
	EATO	•		•	A/S					A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance
	AWBI			•	S S					CONFIRMED NB - Nest-building DD - Distraction display
	COYE		•		S					NU - Used nest or egg shells FY - Fledged/downy young
	GRCA			•						AE - Adult leaving or entering nest site FS - Adult carrying fecal sac
Î	BRTH					•	•		S	CF - Adult carrying food NE - Nest containing eggs
	MODO						•		S	NY - Nest with young
	CSWA						•		S	Comments
	RWBL						:	•	S	
	CHSP					•			S	
	Bekl							•	F.10	
	AMCR							:	FIO	
<i>*</i>	Woodpecker Sp. AMWO					1		•	Ĥ Ae	
MS35	MALL				FID					
540 -	BRTH		•		S					
550 bields	· EAME		•	•	S					
bields	COYE			•	S S,					
redgenow	COGR		•		S <sub>1</sub>					
8	AMC.R SCTA		1	•	S/2-F/0 S					
	SCTA		•		'S					
	RWBL			Li	2.10					
	BCCH		0		S					
	EATO							0	S	
	Modo							•	FIO	
	BHCO						•		×	



	Date: 08/06/20/									
	Wind (Beaufort scale)									: <u>//</u> °C
	Start Time: <u>0446</u>	End Tim	ne:	110	Poin	t Coun	1t#/	VAPOI	35	
	UTM:									1
	Species	<50 m	0   >50m	-5 mln >100m	Breeding	<50 m	5 >50m	-10 min >100m	Breeding Evidence	OBSERVED X - Observed in breeding season POSSIBLE H - Observed in suitable nesting ha
36	OVEN	•			AE					S - Singing male(s) PROBABLE
3- 3	LEFL		:		A/AE					P - Pair observed T - Permanent territory presumed
3	AMRO	•	:		CF/S				)	<ul> <li>D - Courtship or display</li> <li>V - Visiting probable nest site</li> </ul>
	EAWP		•		S					A - Agitated behaviour/anxiety ca B - Brood Patch/cloacal protuber CONFIRMED
	SWSP	0	•		S					NB - Nest-building DD - Distraction display
	RWBL		•	:	P/S					NU - Used nest or egg shells FY - Fledged/downy young
	GCFL				S					AE - Adult leaving or entering nest : FS - Adult carrying fecal sac
	CEDW						•		S	CF - Adult carrying food NE - Nest containing eggs
	YEWA						•		S	NE - Nest containing eggs NY - Nest with young
	SOSP					•		•	AIS	Commen
	Wevi						•		S	1 unit:
	BWA							;	S	heard on walk out.
	CORA							•	-	heard
	0.111									
37	AMWO			•	S					
8	RWBL	::	•	•	SITID		_			
8	CEOW			::	F10					
and	SOSP				S					
	SWSP	•			S					
1	MARW		•		S					
	ALFL		0		S					
	BOCH	:		•	S					
	YEWA	• :	•		S					
	HOWR							•	S	
	BUA							• •	S	-
	,							•		-
	COGR					•			S	-
	AMGO						*		FID	
38	GRCA	0			S					
5-	AMGO	•	•		S					
5	RWBL	9		•	FLO					
ed	EATO	•	•		S					
er	CEDW	•	•		FID					-
	SOSP		•		r ju			•	S	

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Breeding Bird Sur	<b>vey:</b> 10 mi	nute Point Cour	nt		4 of $4$
Project # 163674	Project Na	me <u>Loval</u>	list		
Date: 08 /06 /2016 Ob	server:	yna Le Clair	+ Cale	Visit #	_
Wind (Beaufort scale): <u>M(</u>		/er: <u>/00_</u> % Pred	cipitation:`	Temp:	<u>/0 °C</u>
Start Time: 445 E	nd Time:	710 Poin	t Count#/	IAPI3LS)	
UTM:					
	(	-5 min	5	-10 min	OBSERVED
Species	<50 m >50m	>100m Breeding	<50 m >50m	>100m Breeding	X - Observed in breeding season POSSIBLE

Fvidence

	POSSIBLE
- 11	<ol> <li>Observed in suitable assistant babits</li> </ol>

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ts:

Fuidence

## FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE **BEEN OMITTED**

85540	EUST			26	beeding				
,55- 705	0								
705	SOSP	•			A				
	AMCR			1.1	S				
	EATO		•		S				
	GRCA		•		S S				
	COGR							•	F10
	SAVS					٠	•		S FIO
	CORA							•	FIO
	RUGR								H
	AMGO							:	F10
	Wondpecker Sp.						•		X
	CORA RUGR AMGO Woodpecker Sp. RWBL						•		FID



DILLON

S	Nind (Beaufort scale): [/ Start Time: <u>505</u>									: <u>/</u> °C
- T	JTM:	1	0	-5 min			5.	-10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding seaso POSSIBLE H - Observed in suitable nestin
	SOSP				P				Luidence	S - Singing male(s) PROBABLE
				I						P - Pair observed T - Permanent territory presur
	CHSP		•		S					D - Courtship or display V - Visiting probable nest site
Ì	AMRO	•			SIP					A - Agitated behaviour/anxiety B - Brood Patch/cloacal protub
Ì	FATO	•	•		S					CONFIRMED NB - Nest-building
Ì	WOTH		:		S					DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young
Ì	WBNU			•	S					AE - Adult leaving or entering
Ì	MODO	:	:	•	SIP					FS - Adult carrying fecal sac CF - Adult carrying food NE - Nest containing eggs NY - Nest with young
Ì	PISP			•	S					
Ē	YBCU			1				<u> </u>	S	Comm
Î	AmcR							:	S S	BBSOI-EAME
-	BRTH							•	S	west of fireld
	EUST								FID	
2	BRTH	•			A				110	BBSOB-EAME West of pt in of property
	SOSP	:			P/V					west of ot in ot
Î	FISP	•		•	S					property
	WOTH			:	S					
Ī	AMCR			:-	S					
Ì	EATO		•		2					
Ì	BAWW			•	S					
Ī	MODO				F10					
	REVI				110		•		S	
	LEFL	_						•	S	
t	YEWA			1			•		S	-
Ī	AMRO					•			V	
3	EATO		•		S					á l
-[	MODO	•,			CE					
t	RWBL		•		S					
	GRCA	•			S					
	FISP			•	S S					
	RUGR			•	S					
	WITTH			•	S S					
	WOTT H COGR SOSP			•	F/O					
	CrKD	-			1/0		•		S	



F	Breeding Bird Su Project #/63674	Projec	t Nan	ne	Loyal	ist				<u>2_of</u> <u>4</u>
	Date: <u>/0 / 06 /</u> 20 <u>/6</u> 0 Nind (Beaufort scale): <i>W</i>							Vis	it # <u>2</u> Temp:	
	Start Time: $\underline{SSS}$							IADAZ		<u> </u>
	JTM:		e		F 011	Coun	l#/	011100	0	
		1	0-	5 min			5.	10 min		OBSERVED X - Observed in breeding season
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable nesting habitat
385032	- HANNO				<u> </u>	•			V/A	S - Singing male(s) <i>PROBABLE</i> P - Pair observed

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Date data entered: \_\_\_\_\_ Corresponding Report #:\_\_\_\_\_ Date checked: \_\_\_\_\_ Checked by: \_\_\_\_\_

	Vind (Beaufort scale): <u>//@</u> Start Time:5o5E			-				/		:_ <u>7</u> ℃
	JTM:							aff Sigr		<b>6</b> 2
Γ		1	0	-5 min				10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding	<50 m	>50m	>100m	Breeding	X - Observed in breeding seas POSSIBLE
7	coye	•	•		Evidence				Evidence	H - Observed in suitable nesting S - Singing male(s) PROBABLE P - Pair observed
si  -			•		S					
-	NewA		•	-	S					T - Permanent territory presu D - Courtship or display
	CSWA				$\vee$					V - Visiting probable nest site A - Agitated behaviour/anxiet
+	Amen	•								B - Brood Patch/cloacal protub <i>CONFIRMED</i> NB - Nest-building DD - Distraction display
+	AMBO			•	F/O					
	BWA			2	S					NU - Used nest or egg shells FY - Fledged/downy young
-	SWSP				S					AE - Adult leaving or entering FS - Adult carrying fecal sac
	RWBL		•	•	S					CF - Adult carrying food NE - Nest containing eggs
									_	1
		1							-	NY - Nest with young NY - Nest with young BBSO7-EAME Jest J point Juff - property BBSO7-SAVS >~ Som Sy point
	GCPL							*	S	
	VEER								S	diff. property
	GBHE							•	F/0	MAS-SANS
	SAVS						99.		NE	podor sins
8	BAWN		•		S					sason sopr
	COYE		•		S					
	SOSP	•	•		A/S					
	RENU	1	0	•	S					BBS09-BOBO
-	REGR	•			S					
1	NUDA				0					> field to we
-	FISP									
		(			S			•	<b>C</b> 10	
-	PCCO					•		•	F/O A/S P/T	
-	EATO					•	•		AIS	
-	Bacht					:				
-	PIND						•		S	
-	CCSP				-		•		S	
1	GRCA	•			A					
	BAWW	•	85	•	A/S 3610 35					
	AMBO			* *	3 10 35					
	SOSP	•			$\checkmark$					
	COBR		•		S					
	COGR BHCD			•	S					
	FISP		•		S					
		•			V					
	Amko Bate data entered:	l	Corre	opondin	g Report	<u>a.                                    </u>		Date che	alcad	



Breeding Bird Project # <u>/6367</u> Date: <u>/0 / 06</u> /20/	6 Observer	D	6Cl	airid	S.R.	bins	un Vis	sit #	-
Wind (Beaufort scale	): W@ / Clou	JdCov	er:	∕_% Prec	cipitatio	on:	Ø	Temp	: <u>7</u> ℃
Start Time: <u>505</u>	End Tim	e: フ	30	Poin	t Coun	t#	WAPO	38	
UTM:		A				-			
		0-	-5 min			5.	-10 min		OBSERVED
Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	<ul> <li>X - Observed in breeding season</li> <li>POSSIBLE</li> <li>H - Observed In suitable nesting habit</li> <li>S - Singing male(s)</li> </ul>
PMWO		•		S					PROBABLE P - Pair observed
BWA		•			S				T - Permanent territory presumed D - Courtship or display
CCSP						•		S	V - Visiting probable nest site A - Agitated behaviour/anxiety calls
FRP							•	S	B - Brood Patch/cloacal protuberance CONFIRMED
BRTH						•		S	NB - Nest-building DD - Distraction display
									NU - Used nest or egg shells FY - Fledged/downy young
									AE - Adult leaving or entering nest site FS - Adult carrying fecal sac
									CF - Adult carrying food NE - Nest containing eggs
									NY - Nest with young
									Comments
									1
									-
									-
									-
									-
									-
			<u>.</u>						-
					<u></u>				
									-



B	reeding Bir	d Sur	vey:	10 mi	nute Po	oint Cour	nt				of_
Pr	oject # <u>636</u> ate: <u>2806_</u> /2	574	Projec	ct Nar	ne	yali	<u>st</u>				
Wi	ind (Beaufort so	ale): 🧹		udCov	ver: <u>///</u>	<u>2% Prec</u>	ipitatio	on: 🔄		Temp	: <u>/ 9 °</u> C
Sta	art Time: 455	Е	nd Tim	ie:	730	Point	t Coun	t# NA	P11, 12	13	
	Г <b>М</b> :							, <del>.</del>			
			1	0	-5 min			5.	10 min		OBSERVED
S	pecies		<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting ha
			N NOTE	ES ABC		CT LOCAT CIES AT F					D - Courtship or display V - Visiting probable nest site A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberan CONFIRMED NB - Nest-building
5	CONI					300m S					DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young
·	SOSP		•	:		S					AE - Adult leaving or entering nest FS - Adult carrying fecal sac
	GRSP		:								CF - Adult carrying food NE - Nest containing eggs
	EATTO		4	*							NY - Nest with young
	CHSP			å-	·						Commer
	FISP			1		+					handield
	AMRO							•	•	S	hayfield NN @ 300m
	EATO		•	<b>.</b> (€)		5					
	SOSP			÷ •		1					
8	FISP			:	1						
	AMCR				:						
	GBP										
	BAWW			a.		V					
	SAVS								•	50	
	BRTH									S	

		_	 	
Date data entered:	Correspond	ding Report #:		



Date checked: \_\_\_\_\_\_Checked by:\_\_\_\_\_

	Breeding Bird S Project # 163679 Date: 28 / 06 /20/6	u <b>rvey:</b> Project	10 mii ct Nan	nute Po ne	oint Cou	nt Valio	+			Z_of_
	Date: 28 106 120/6	Observer	Da	AT	RMG	uni			it #	-
	Wind (Beaufort scale):	Clo	udCov	er: /02	<sup>2</sup> % Pre	cipitatio	on: 🥧		Temp:	<u>19°C</u>
	Start Time: 955	End Tim	ie:	730	Poir	t Coun	t#^	MAP 11	,12,1	3
	UTM:									
	O-5 min           Species         <50 m         >100m         Breeding         <50 m	5	-10 min		OBSERVED X - Observed in breeding season					
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable nesting habi
52	AMRO				S					S - Singing male(s) PROBABLE
54-	BTNW	•	•							P - Pair observed T - Permanent territory presumed
204	GCFL			•						D - Courtship or display V - Visiting probable nest site A - Agitated behaviour/anxiety calls
	EATO	,								B - Brood Patch/cloacal protuberand
	EAWP			)						NB - Nest-building DD - Distraction display
	BAWN			1						NU - Used nest or egg shells FY - Fledged/downy young
	Bacht		2							AE - Adult leaving or entering nest si FS - Adult carrying fecal sac
	MODO		1.1							CF - Adult carrying food NE - Nest containing eggs
	BRTH									NY - Nest with young
	- FISP			4						Comment

43	SWSP			:	Ş	
43 638- 648	RWBL			X		
648	DOND					
	LEFL		•			
	BCCH		2.5			
	Sasp		•	•		
	Corre	٠	•		*	
	AMRO		1	::	4F10	
	Date data entered: Date checked:		Corre Checke	sponding d by:	g Report #:	



	Breeding Bird S Project # 163674		10 mii rt Nan	nute Po		nt V st	4			<u>S</u> ofS			
	Date: <u>28 / 06 /</u> 20 /6												
	Wind (Beaufort scale):												
	Start Time: <u>455</u> End Time: <u>730</u> Point Count# <u>N#P11,12,13</u>												
	UTM:												
	Species		0-	5 min			5	10 min	OBSERVED				
		<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	<ul> <li>X - Observed in breeding season</li> <li>POSSIBLE</li> <li>H - Observed in suitable nesting habitat</li> </ul>			
	WIFL				S					S - Singing male(s) PROBABLE			
	FISP		r	:						P - Pair observed T - Permanent territory presumed			
	AMGO				*					D - Courtship or display V - Visiting probable nest site			
42	CHSP	1			S					A - Agitated behavlour/anxiety calls B - Brood Patch/cloacal protuberance CONFIRMED			
-48	EATO	•	1							NB - Nest-building DD - Distraction display			
658	GRCA	•								NU - Used nest or egg shells FY - Fledged/downy young			
	Amro		•							AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac			
	MODO		2		WT.					CF - Adult carrying food NE - Nest containing eggs			
	FISP			36	ľ			•	S	NY - Nest with young			
	Ameo							(*) *	F/O	Comments:			
	AMCR						•		5				
123	BRTH							•	S				

46 708- 718	BCCH BEKI	::			FY		
708-	Bekl	•			FIO		
718	EATO SOSP FISP	1			S		
	SOSP		1		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	FISP		3	*	S		
	AMRO	28.			A		
41	C-EDN/ YEWA	::		Ħ	4-510		
	YEWA		:		S		
720- 730	Carle	8	1	•			
130	SNSP	,					
	RWBL			1			
	COBR		11		4		
	MALL		1			1.1	FIO
	GBHE						FID
							10
_	Date data entered:		Corre	spondin	g Report #:		-
	Date checked:	(	Checke	d by:			



6

	Date: <u>27 / 06 /</u> 20/(	Observer			ii #					
	Wind (Beaufort scale)									<u>22</u> °C
Ş	Start Time: 505	_ End Tim	ie:	830	Poin	t Coun	t#	NAPL	192	
	UTM:							aff Sigr		
[			0	-5 min			5.	-10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding sea POSSIBLE
4	BAWW		:		S				Evidence	H - Observed in suitable nest S - Singing male(s) PROBABLE
-	AMRO	3	22	*						P - Pair observed T - Permanent territory pres
	Bcc+/		•							D - Courtship or display V - Visiting probable nest site
	WITSP		۲							A - Agitated behavlour/anxle B - Brood Patch/cloacal prot
	RB6R									CONFIRMED NB - Nest-building
	SOSP		:							DD - Distraction display NU - Used nest or egg shells
	BRTH			( <b>0</b> )						FY - Fledged/downy young AE - Adult leaving or entering
	FISP			•						FS - Adult carrying fecal sac CF - Adult carrying food NE - Nest containing eggs
Ì	CORA		•		A					NY - Nest with young
	EATO			1		2	:	•	S	Comn
	NAWA							•	1	
1	AMRE									
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Ì	AmeR									
	- MODO						•		77	
	BCCH				S				Y	
- [	BINW									
5	FATTO		:							
Ī	DVEN		•	•						
Ī	NAWA									
Ī	WISP		٠				-			
Ī	Mono	2	•		*					
Ĩ	STEP				×.	11			FY	
Ī	MODO SOSP BAWW							-	5	
Ī	AMCR							2	S	
Ī	AMRD				7.1				S A/FY	
	AMCR AMRO WBNU							۲	5	
-	OVEN		•		5					
	GCFL		ч. Т							
2	BAWW		•							
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Ī	coye, Revi GBHE	1		1	*					
ſ	GBHe								F/0	
	AMRO					*			S	



Date:	6110612011	bObserver		OCA	TRMI	2		Vis	;it #	-
Wind (	Beaufort scale):	SM@2010	udCov	er: <u>10</u>	_% Pred	pitatio	on:		Temp:	<u>Zz°c</u>
Start T	ime: 585	End Tim	ie: &	30	Poin	t Coun	t# N	AP4	92	
UTM:										
			0	-5 min			5-:	10 min		OBSERVED
Species		<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE
	Veek				Lundende				S	S - Singing male(s) PROBABLE
	PIND							A.	Ĩ	
	BLIA									
	CSWA									B - Brood Patch/cloacal pr
17	SWA			:	5				v	NB - Nest-building
	oven				1					NU - Used nest or egg she
	REGR									X - Observed in breeding se POSSIBLE H - Observed in suitable ne S - Singing male(s) PROBABLE P - Pair observed T - Permanent territory pre D - Courtship or display V - Visiting probable nest si A - Agitated behaviour/anx B - Brood Patch/cloacal pro CONFIRMED NB - Nest-building DD - Distraction display NU - Used nest or egg shells FY - Fiedged/downy young AE - Adult leaving or enterli- FS - Adult carrying food NE - Nest containing eggs NY - Nest with young COMFI
	EAWP		/*i							CF - Adult carrying food
	OVEN		1.54	n•6						OBSERVED         X - Observed in breeding sease         POSSIBLE         H - Observed in suitable nestile         S - Singing male(s)         PROBABLE         P - Pair observed         T - Permanent territory presure         D - Courtship or display         V - Visiting probable nest site         A - Agitated behaviour/anxlete         B - Brood Patch/cloacal protul         CONFIRMED         NB - Nest-building         D - Distraction display         NU - Used nest or egg shells         FY - Fledged/downy young         AE - Adult leaving or entering         FS - Adult carrying feod         NE - Nest containing eggs
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-	WOTH				S					thoinlow
-	EAWP			•	Ĩ					
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	Revi									moved N
	OVEN				Þ				c	property
	VSFL				S				S	· 1
	CEDW	_		100	>					
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	FISP		-	*	V					
	BTNW	:	•	•	S					
	BLIA			* 						
	EATO									
	NOTH			18						
	CSWA	•	•							
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	FISP						÷		5	
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DILLON	

ate: <u>27 / 06 /</u> 20 <u>/</u> ind (Beaufort scale):	() Doce	·	1944 I		to the sta			
art Time: <u>505</u>	_ Ena Tim	le:0	30	Poin	t Coun	I.#	NAP	47C
ГМ:			P. and in				40	
pecies	<50 m	0 >50m	-5 min >100m	Breeding	<50 m	5. >50m	-10 min >100m	Breeding
TTA (1)				Evidence				Evidence
BTNW		•						
WOTH	•							
Revi		<u>.</u>						·
FISP		•	•	V				
YSFL							•	2
Veek					-	•		
KBNU								
BRTH						9		
NOWA							÷	4
OVEN		:		S				
CSWA		•						
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EAWP			1	The second secon				
AMRO						i		5
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SCTA	12 C			FY				
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AMRO	1	•	3	5				
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RIIA			÷ *	*				
BLIA GRCA Veek BRIH								S
1000								S

DILLON

[	Breeding Bird S Project # <u>163674</u> Date: <u>24_1_06_</u> 120 <u>16</u>	Observer		DI	A			Vis	sit # <u>-</u>	_
١	Wind (Beaufort scale):	- Clo	udCov	ver: 20	% Pred	cipitatio	on:		Temp	18 °C
	Start Time: <u>530</u>									
	UTM:			00		Coour				
1				P aula				10		OBSERVED
	Species	<50 m	>50m	)-5 min >100m	Breeding	<50 m	>50m	-10 min >100m	Breeding	X - Observed in breeding sea POSSIBLE
50	1.101				Evidence				Evidence	H - Observed In suitable nest S - Singing male(s)
20	WITH	4			FY					PROBABLE P - Pair observed
	AMGO	15		-						T - Permanent territory press D - Courtship or display
-	HOWR									V - Visiting probable nest site A - Agitated behaviour/anxie
	CSWA		•	00	+					B - Brood Patch/cloacal prote CONFIRMED NB - Nest-building
	WHVI		*		1					DD - Distraction display NU - Used nest or egg shells
ł	EHID		•		*					FY - Fledged/downy young AE - Adult leaving or entering
	DURD			-	<					FS - Adult carrying fecal sac CF - Adult carrying food
1	RUBR		••	-						NE - Nest containing eggs NY - Nest with young
-	PALIN									Comn
	BAWW	• •								
	CS BCCH		<u> </u>		1			4	5	
ł	APAUA									
-	<u> </u>						•			
-	PIWD				·					
	1. dcD				S					
8	WISP									
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-	BTNW OVEN									
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	ind (Beaufort scale): art Time:	_ End Tim	ne:	-	Point	t Coun	it#7	-Line	Exist	ng ROW
Γ			0	-5 min			5	-10 min		OBSERVED
S	pecies	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding s POSSIBLE H - Observed in suitable no
55	SCTA	•		-	S					:S - Singing male(s) PROBABLE
- [	GCFL			•						P - Pair observed T - Permanent territory pre
	BAWN	•	v							D - Courtship or display V - Visiting probable nest s
	BLIA			:						A - Agitated behaviour/ana B - Brood Patch/cloacal pro CONFIRMED
	PINO		•							NB - Nest-building
	OVEN			•						NU - Used nest or egg shell IFY - Fledged/downy young
	BeKI			•						AE - Adult leaving or enter IFS - Adult carrying fecal sad
	SOSP		•							ICF - Adult carrying food INE - Nest containing eggs
	EATO		0	•	$\forall$					NY - Nest with young
	RWBL							ا ال	FID	Com
	MODO							•	FIO	
Ч	EATO	•	•		Ş					
-	oven			•						
	Revi	•	•							
	BLUA			•						
	BAWW	:		•						
	NOCA,		•							
	BAON*			•	$\nabla$					
3	FISP			•	S					
	oven									
	Revi		•							
	AMRO	۲	:							
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_	WIWA			ه	VA					
2	EATO				S					
	NAWA		٩	•	S					
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	GRCA AMBO AMRO		•		S					
	CEDW VEWA			::	F10					
	YEWA	•	•		S					
	BCCH	1.1			FY					



Start UTM Speci			ie:				t# <u>T-Line</u> 5-10 min		
UTM Speci	RWBL TRES SOSP	<50 m	0	-5 min	Breeding		5-10 min	Nafa	K 19.
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	RWBL TRES SOSP	: *	1	1	-	<50 m	1 1		OBSERVED
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	SOSP				S.I			Evidence	H - Observed In suitable ne S - Singing male(s)
	SOSP				FY				PROBABLE P - Pair observed
	REVI				2				T - Permanent territory pro D - Courtship or display V - Visiting probable nest s
	HAWO								A - Agitated behaviour/and B - Brood Patch/cloacal pro
	HAWD				+				CONFIRMED NB - Nest-building
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	CONTO				27				FY - Fledged/downy young AE - Adult leaving or enter
	<u>OUIN</u>			÷					FS - Adult carrying fecal sa CF - Adult carrying food
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	DUH ILIN		•						Com
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-	RAND							S	
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· · · · · ·	BAWW		,						
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	Nind (Beaufort scale							A IA D D		. <u>//</u> °C
	Start Time: <u>05700</u> JTM:		ne:	101	Poir			taff Sig		
Γ			0	-5 min				5-10 min		OBSERVED X - Observed in breeding season
	APPI CON	D NOTES TH LICABLE TO TAIN NOTES N OMITTED	THE PF	ROJECT	T LOCATIC		E			<ul> <li>H - Observed in suitable nesting h</li> <li>S - Singing male(s)</li> <li>PROBABLE</li> <li>P - Pair observed</li> <li>T - Permanent territory presumed</li> <li>D - Courtship or display</li> <li>V - Visiting probable nest site</li> <li>A - Agitated behaviour/anxiety cal</li> <li>B - Brood Patch/cloacal protubera</li> <li>CONF/RMED</li> <li>NB - Nest-building</li> <li>DD - Distraction display</li> <li>NU - Used nest or egg shells</li> <li>FY - Fledged/downy young</li> <li>AE - Adult carrying fecal sac</li> <li>CF - Adult carrying food</li> <li>NE - Nest containing eggs</li> </ul>
20	PISP	9 9	•		S					NY - Nest with young
-										
-	EATD		•	•	S					
	- BRAT									
8 2	GUPL							•	\$	
	BCEH						-0			
	MODO						•		<b>V</b> '	
		FIFLD N	OTES T	ΉΔΤ ΔΙ		NGER				
		APPLICA	BLE TO N NOTE	D THE F S ABO	RE NO LOI PROJECT I UT SPECII					

Date data entered:	Corres	ponding Report	#:	 Date ch	ecked:



Checked by:\_\_\_\_\_ Coordinator Sign-off\_\_

	Date: <u>/7 / 06 /</u> 20 <u>/6</u>									
١	Wind (Beaufort scale):	Clo	udCov	/er: <u>2</u> (	≥% Pred	cipitatio	on:	-	Temp:	_ <u>//</u> °C
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	UTM:	_						aff Sigi		
Ī		1	0	-5 min				-10 mln		OBSERVED
	Species	<50 m	>50m	>100m	Breeding	<50 m	>50m	>100m	Breeding	X - Observed in breeding seaso POSSIBLE
7	GRCA				Evidence				Evidence	H - Observed in suitable nestin S - Singing male(s)
7	PISP	0			S					PROBABLE P - Pair observed
ł	EATD		•							T - Permanent territory presum D - Courtship or display V - Visiting probable nest site
ł	MARW									A - Agitated behaviour/anxiety B - Brood Patch/cloacal protub
Ì	BAWN									CONFIRMED NB - Nest-building
	RWBL		1.	::						DD - Distraction display NU - Used nest or egg shells
t	MODD			<u> </u>						FY - Fledged/downy young AE - Adult leaving or entering n
	YEWA		:		*					FS - Adult carrying fecal sac CF - Adult carrying food
	BBCY		•					0	S	NE - Nest containing eggs NY - Nest with young
	NOCA								- 3	Comm
Ī	Amer							•		
Ì	Cene						-1		V	
-	MALL			•	F10		4			
	WOOD			 	FID					
	EATD		•		5					
	BLTH	•			S					
	GCPL		•••		FY					
ľ	(06R			1.1	FIO					
	RWBL				21				F10	
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1	GLSP	•			S					
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_	A A				~					
	GBHC Date data entered		Corre	•				Date che	FID	

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Breeding Bird Project #		10 mii st Nor	nute Po	pint Cou	nt I	t.			<u> </u>
Date: $77/16/20$	/60bserver	: <i>D</i>	UA a	Imb	and		Vis	;it #3	
Vind (Beaufort scale		udCov	er: 20	% Pred	cipitatio	on:		Temp	- : //°C
tart Time: 0500	End Tim	-	701	Poin	t Cour	t#	NAPA	21	
TM:							aff Sig		
	1	0	-5 min		1		-10 min		OBSERVED
Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in sultable nesting hab
SOSP				2		:	•	S	S - Singing male(s) PROBABLE
EAKI				2			•	S	P - Pair observed T - Permanent territory presumed D - Courtship or display
APPLI CONT	NOTES THA CABLE TO TH AIN NOTES A OMITTED	HE PRC	JECT L	OCATION					A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberand <i>CONFIRMED</i> DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young AE - Adult leaving or entering nest sl FS - Adult carrying food NE - Nest containing eggs NY - Nest with young
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-									
Datadatas	red	0	an ar di	Dener	<i>µ</i> .		Dete	a aluc -lu	,
Date data ente	ered:	Corre	espondir	g Report	#:		Date ch	ecked:	

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Breeding Bird Sur Project # Date:	Projec	t Nan	ne(	oint Cour Mai MG	nt list		Vis	it #	<u>/</u> of <u></u>
Wind (Beaufort scale): No			-				- (h.)		<u>_(2</u> °c
Start Time: 705 E	nd Tim	e:	841	Poin	t Cour	it#/	NAPI	20	
UTM:									
1		0-	5 min			5-	-10 min		OBSERVED X - Observed in breeding season
Species	<50 m	>50m	>100m	Breeding	<50 m	>50m	>100m	Breeding	POSSIBLE
				Evidence				Evidence	H - Observed in suitable nesting habitat S - Singing male(s)
									PROBABLE P - Pair observed
									T - Permanent territory presumed

I - Permanent territory presumed D - Courtship or display V - Visiting probable nest site A - Agitated behaviour/anxiety calls B - Brood Patch/cloacai protuberance *CONFIRMED* NB - Nest-building DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac CF - Adult carrying food NE - Nest containing eggs NY - Nest with young

**Comments:** 

BASIS	R	ett	0 °		FY		
750-	Re	ev1	•		5		
750- 870		10.2				 	
	- V.	ewa	6				
	S	DSP			17		
-		te data entered te checked:		Correspondence	onding Report #:_ y:	 •1	
DIL	Field	Form Based on Wind Tu	rbines & Birds - Moni	toring Protocols,	, page 32 April 2007		

	Nind (Beaufort scale): Start Time://う JTM:									<u>_/2</u> °C
0	J 1 WI		0	-5 min			5-	10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting
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	AMRA					•				P - Pair observed T - Permanent territory presum
	WITH						•		LP	D - Courtship or display V - Visiting probable nest site
	BAOR								blushed	A - Agitated behaviour/anxiety B - Brood Patch/cloacal protube
94	BAOK	6	•		S				C WHARD	NB - Nest-building
94 21	CSWA	:			Ī					DD - Distraction display NU - Used nest or egg shells
21	STA.	•		•						FY - Fledged/downy young AE - Adult leaving or entering ne
	IPCI	•	•							FS - Adult carrying fecal sac CF - Adult carrying food NE - Nest containing eggs
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	CEDW		ø		V					
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	- MANKIN								7	
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V	Vind (Beaufort scale	): Cloi	JdCov	er: <u>20</u>	$2_{\%}$ Prec	cipitatio	on:		lemp:	<u>// °C</u>
S	Start Time: 450	End Tim	e:	930	Poin	t Coun	t#	NAP	/35	
U	JTM:									
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1	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in sultable nesting habita
31	SAVS	:			S				Evidence	S - Singing male(s) PROBABLE
-	UPSA		•		S					P - Pair observed T - Permanent territory presumed
0  -	CHSP				S					D - Courtship or display V - Visiting probable nest site
	AMR()		£*		S					A - Agitated behaviour/anxiety calls B - Brood Patch/cloaca! protuberance
	MODO		:	-	S					CONFIRMED NB - Nest-building
	GRSP			*	Ś					DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young
	EAPH			3 <b>•</b> 7	S					AE - Adult leaving or entering nest site FS - Adult carrying fecal sac
	Amck							1	1E10	CF - Adult carrying food NE - Nest containing eggs
	RNPH						•		bieldton	NY - Nest with young
	SOSP						•		S	Comments
	BRITH							•	S	
		FIELD NOTE APPLICABLE	-				OR			

RA34	GCEL		:		S		
BB534 530 - 540	SWSP	:					
540	Cerre	3					
	SOSP	1 ×	1				
	CHSP			39	*		
Trans.	Date data entered Date checked:	:0	_ Corre Checked	spondir d by:	ng Report #:		



	Date://20	Observer						Vis	it #	2
1	Wind (Beaufort scale):	Cloi	JdCov	er:	_% Pred	cipitatio	on:		Temp:	°C
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	UTM:									
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	MARW					•	•		S	P - Pair observed T - Permanent territory presum D - Courtship or display
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	YSPI							•		B - Brood Patch/cloacal protub CONFIRMED
_	RBM							•	6-	NB - Nest-building DD - Distraction display
35	RWBL			::	F.10					NU - Used nest or egg shells FY - Fledged/downy young
-	RNPH				east					AE - Adult leaving or entering n FS - Adult carrying fecal sac
-	Sasp		0.0		AC					CF - Adult carrying food NE - Nest containing eggs
	SWSP			3	Ş					NY - Nest with young
	YEWA			•						Comme
	Coye			:	*					
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-	WAVI				1					
3	SWSP	1	:							
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	corre				V					
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7[	SWSP		1		5					
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r[	Certe	:								
	GRCA Cerje RWBL	:		•						
	MARW	1.0								
T	AMGO	3	1.1		V					

/	Date checked:_
DILLON	Field Form Based on Wind

	Breeding Bird Su Project # <u>163674</u> Date: <u>20166</u> 120/6	<b>irvey:</b> Projec Observer	10 mi ct Nar :)	nute Po ne <i>L A +</i>	pint Cour Cale	list Hai	tin	Vis	it #	<u>3</u> of <u>3</u>
1	Wind (Beaufort scale): _	Clou	udCov	er: <u>20</u>	<u>⊇</u> % Pred	cipitatio	on:		Temp:	: <u>7</u> °C
;	Start Time: 450	End Tim	e:	93		t Coun	t#/	NAPI	<u>'3(S)</u>	
	UTM:									
			0	-5 min		_	5-	10 min		OBSERVED
l.	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in sultable nesting habitat
	AMRI				S					S - Singing male(s) PROBABLE
	(06R							•••	FID	P - Pair observed T - Permanent territory presumed
	NOCA							ו	S	D - Courtship or display V - Visiting probable nest site
	Veek						- 20			A - Agitated behavlour/anxiety calls B - Brood Patch/cloacal protuberance CONFIRMED
	BUA								Þ	NB - Nest-building DD - Distraction display
BBST	EATO		•		5					NU - Used nest or egg shells FY - Fledged/downy young
633-	BAWW									AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
643	GRCA	4								CF - Adult carrying food NE - Nest containing eggs
<b>U</b> .	NOCA	•		•	*					NY - Nest with young
	SOSP			1					Ş	Comments:
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78540	SAVS	•			S				
704-	SAVS WINR	6	•						
714	EUST			×.					
"	coye				4				
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	<u>6BHE</u> SOSP			_				•	FID
	Sosp						•	c	S
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	Date data entered:		Corre	sponding	Report #	ŧ:			
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	Breeding I Project # <u>/6</u> Date: <u>20 / 06</u> Wind (Beaufort Start Time: <u>7</u> UTM:	<u>3674</u> 5_/20 <u>/6</u> Ob t scale):	Projec server Clou	t Nar 0 udCov	ne <i>UA + i</i> ver: <u>3 (</u>	(01/2) (2)6 7 2% Prec	list Jartu cipitatio	on:		Temp	: <u>/8</u> ℃
				0	-5 min			5-	10 min		OBSERVED X - Observed in breeding season
	Species		<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable nesting habitat
		APPLICAB CONTAIN I BEEN OMI	NOTES			ES AT RI	-	Έ			D - Courtship or display V - Visiting probable nest site A - Agitated behaviour/anxlety calls B - Brood Patch/cloacal protuberance <i>CONFIRMED</i> NB - Nest-building DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young
138524	AMRO				•	S					AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
738-	GCFL				•						CF - Adult carrying food NE - Nest containing eggs
748	KILL				•						NY - Nest with young
7.0	PATO				•						Comments:
	SUSP										
	AMCR				17	V					
_	RWBL							1		S	

BBS26	EAWP GCFL			2.00	Ş		
88526 805- 815	GCFL	×.	•				
815	YTVI						
	WIWA						
	REVI		*		V		
	KILL					•	5
	Vicer					5 <b>.</b>	
	PIWD					•	
	PIWO NAWA						
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	Date data entered:		Corre	spondin	g Report #:		
-	Date checked:	C	hecked	d by:			
DIL	LON Field Form Based on Wind Turbin	nes & Birds - Mon	itoring Proto	ocols, page 3	2 April 2007		

<b>Breeding Bird Su</b>	<b>rvey:</b> 10 m	inute Point Co	unt				Zof 7
Breeding Bird Su Project # _/63674	Project Na	me <u>lay</u>	alist				
Date: 20 1 06 120 160	bserver: 01	A + Cale	Har		Vis	sit # <u>5</u>	_
Wind (Beaufort scale):	<u>€</u> 3CloudCo	ver: <u>30 </u> % Pr	ecipitatio	on:		Temp:	<u>20</u> °C
Start Time: 725	End Time:	915 Po	int Coun	t#/	UAPI	18/02	3
UTM:							
		0-5 min		5.	-10 min		OBSERVED X - Observed In breeding season
Species	<50 m >50m	>100m Breedin	-	>50m	>100m	Breeding	POSSIBLE H - Observed in suitable nesting habitat
							S - Singing male(s) PROBABLE
							P - Pair observed T - Permanent territory presumed

NY - Nest with young Comments:

D - Courtship or display V - Visiting probable nest site

NB - Nest-building DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young

A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance CONFIRMED

AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac CF - Adult carrying food NE - Nest containing eggs

SZT	oven				5			
	OVEN YEWA REVI NAWA							
527 5	ReVI		:					
IS	NAWA		•					
	Corre				*			
	RUBL							F10
	NDCA					•	•	S
	EATD							S
	A. 14 9							
	Date data entered	4.	Corre	sponding	Report #:			



	Breeding Bird S Project # <u>/63674</u> Date: <u>2/ / 06</u> /20/ Wind (Beaufort scale)		. <u> </u>	er: <u>20</u>	2% Pred	cipitatio	on:		Temp	: <u>/2</u> °c
	Start Time: <u>453</u>									
	UTM:							aff Sigi		e
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	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season POSSIBLE H - Observed in suitable nesting habit
BBSOI	SOSP	3 <b>9</b> 5			S					S - Singing male(s) PROBABLE
453-	aHSP									P - Pair observed T - Permanent territory presumed
\$03	BLJA			•						D - Courtship or display V - Visiting probable nest site
	EAP+1		•							A - Agitated behaviour/anxiety calls B - Brood Patch/cloacal protuberance
	COSN			•						CONFIRMED NB - Nest-building DD - Distraction display
	BRITH	•								NU - Used nest or egg shells FY - Fledged/downy young
	EATD			•	V					AE - Adult leaving or entering nest sit
	MODO					*			S	CF - Adult carrying food NE - Nest containing eggs
	AMLO					•				NY - Nest with young
	Amal							· · ·	17	Comment
3502	FLSP	0		٠	S				¥	BBSOI-no EAME/BC West of Pt plc Weld Cut + ba.
07- 517	NOCA	•			3					West of Pt ple
517	AMRO				FY					Dieco Cui Pagi
	BLIA			•	Ś					
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803	MODO	13			FY					
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	COGR							11	FIO	
	AmRo							1?	fy -	- Irom BOSU2?
	BWA						t*			
	UDSA							ø		

Date data entered: \_\_\_\_\_ Corresponding Report #: \_\_\_\_\_ Date checked: \_\_\_\_\_



Checked by: \_\_\_\_\_ Coordinator Sign-off\_\_\_\_\_\_

W	ind (Beaufort	scale): Wa		44001							
	art Time: 45				20	Poin	t Coun		NAPO	38	o:1 <u>′′</u> °C
	TM:				<u> </u>				aff Sigr		-
		X		0	-5 min				10 min		OBSERVED
S	pecies		<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE
											<ul> <li>P - Pair observed</li> <li>T - Permanent territory pres</li> <li>D - Courtship or display</li> <li>V - Visiting probable nest sit</li> <li>A - Agitated behaviour/anxie</li> <li>B - Brood Patch/cloacal prot</li> <li>CONFIRMED</li> <li>NB - Nest-building</li> <li>DD - Distraction display</li> <li>NU - Used nest or egg shells</li> <li>FY - Fledged/downy young</li> <li>AE - Adult leaving or enterin</li> <li>FS - Adult carrying fecal sac</li> <li>CF - Adult carrying food</li> <li>NE - Nest with young</li> </ul>
		FIELD NO APPLICAE CONTAIN BEEN OM	BLE TO	THE P	ROJECT	<b>FLOCATION</b>		Æ			
7	SAVS	APPLICAE CONTAIN	BLE TO	THE P	ROJECT	F LOCATIO		/Ε			
7	SAVS	APPLICAE CONTAIN	BLE TO I NOTES IITTED	THE P	ROJECT	F LOCATIO		/E			
7	coye	APPLICAE CONTAIN	BLE TO I NOTES IITTED	THE P S ABOU	ROJECT	F LOCATIO		/E			
7	LOYE YSFL WIM	APPLICAE CONTAIN	BLE TO I NOTES IITTED	THE P S ABOU		S S		/E			
7	coye	APPLICAE CONTAIN	BLE TO I NOTES IITTED	THE P S ABOU	ROJECT JT SPEC	F LOCATIO		/E			
7	LOYE YSFL WIM	APPLICAE CONTAIN	BLE TO I NOTES IITTED	THE P S ABOU	ROJECT JT SPEC	S S S S S S		/E			
7	coye YSFL WITM FISP	APPLICAE CONTAIN	BLE TO I NOTES IITTED	THE P S ABOU	ROJECT JT SPEC	S S S S S S S S S S S S S S S S S S S		/E			
2	coye YSFL WITM FISP COSN	APPLICAE CONTAIN	BLE TO I NOTES IITTED		ROJECT JT SPEC	S S S S S S S S S S S S S S S S S S S		/E			
7	COYE YSFL WITM FISP COSN BCCH	APPLICAE CONTAIN	BLE TO I NOTES IITTED		ROJECT JT SPEC	S S S S S S S S S S S S S S S S S S S		/E			

DILLON

Checked by:\_\_\_\_\_ Coordinator Sign-off\_\_\_\_\_

	Vind (Beaufort scale) start Time: <u>453</u>									<u> </u>
	TM:							aff Sig		
Г	, , , , , , , , , , , , , , , , , , ,		-	E sele					-011	[and see and
	Species	<50 m	>50m	-5 min >100m	Breeding Evidence	<50 m	>50m	10 min >100m	Breeding Evidence	OBSERVED X - Observed in breeding se POSSIBLE H - Observed in suitable nes
	WIFL		*		S					S - Singing male(s) PROBABLE
	YEWA							•		P - Pair observed T - Permanent territory pres
	EAKI							:	A	D - Courtship or display V - Visiting probable nest sit
									L	A - Agitated behaviour/anxi B - Brood Patch/cloacal prot
	KILL								FID	CONFIRMED NB - Nest-building
3	BAWW		•		S	_				DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young
	EATO		•							AE - Adult leaving or enterin FS - Adult carrying fecal sac
7	BCCH									CF - Adult carrying food NE - Nest containing eggs
	COMP				*					NY - Nest with young
	WITH				S					Comr
	YSFL			•	S					
	- GCPL			•						
9	KILL	•		:	A/S					
- [	CEDW				FY					
	CCSP	:		· · · · · · · · · · · · · · · · · · ·	A					
	BRTH	٥			Ae					
	Revi			•	5					
	CHSP		b		S					
	Bech		• •		A					
	coye					•	•	•	S	
	EAPH						•		S	
_							1			



	Breeding Bird Sur Project # 163674	<b>vey:</b> Proiec	10 mii ct Nar	nute Po ne	int Cour	nt . list				<u>/of /</u>
	Date: 30 1 66 /20/601	oserver		VA-	+ RME	3		Vis	it #	_
	Wind (Beaufort scale):									<u>16</u> °C
	Start Time: 802 E	Ind Tim	le:δ	742	Poin	t Coun	t#/	IAPIL	/	
	UTM:									
			0-	5 min			5-	10 min		OBSERVED
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	X - Observed in breeding season <i>POSSIBLE</i> H - Observed in suitable nesting habitat
105	GWWA	•			S,					S - Singing male(s) <i>PROBABLE</i> P - Pair observed
802-	HOWR		No.							F - Pair observed T - Permanent territory presumed D - Courtship or display
812	VeeR	•		•						V - Visiting probable nest site A - Agitated behaviour/anxiety calls
	Yewa	1			*					B - Brood Patch/cloacal protuberance CONFIRMED
	WOTH						٠		S,	NB - Nest-building DD - Distraction display
	GAMRO					•	•			NU - Used nest or egg shells FY - Fledged/downy young
	WBMU								×	AE - Adult leaving or entering nest sites FS - Adult carrying fecal sac
_	RWBL							1:	FID	CF - Adult carrying food NE - Nest containing eggs
104	SAVS			•	5,					NY - Nest with young
812-	WOTH	•	•							Comments:
822	GRCA	4				4				
•	RBGR		•							
	AMRE				4					
	NAWA						•		S,	
-27	AMRD					1				
	BTNW							•	¥	



5

Date data entered: \_\_\_\_\_ Corresponding Report #: \_\_\_\_\_ Date checked: \_\_\_\_\_ Checked by: \_\_\_\_\_

Field Form Based on Wind Turbines & Birds - Monitoring Protocols, page 32 April 2007

D	roject # <u>163674</u> ate: <u>30 1 06</u> 120 <u>16</u>	Observe	r:	DLA	+ RM	n6,		Vis	sit #	-
W	/ind (Beaufort scale): _		oudCov	/er: <u></u>	_% Pred	cipitatio	on:		Temp:	<u>/5</u> °C
St	tart Time: 708	End Tir	ne:	752	Poin	t Cour	nt# /	NAPI	60	
U	TM:	34								
			1	-5 min			1	-10 min		OBSERVED X - Observed in breeding
S	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable
	Revi		•	· ·	S					S - Singing male(s) PROBABLE
	COYE		:	- <u>-</u>	S					P - Pair observed T - Permanent territory p
				-t					I	D - Courtship or display V - Visiting probable nest
	AMRO			•	8					A - Agitated behaviour/a B - Brood Patch/cloacal p CONFIRMED
	AMGO		1	L	FIO					NB - Nest-building DD - Distraction display
F	RWBL				S					NU - Used nest or egg sh FY - Fledged/downy your
	SWSP		:		S					AE - Adult leaving or enter FS - Adult carrying fecals
	BTBW			•	S					CF - Adult carrying food NE - Nest containing egg
	CEOW							• •	F10	NY - Nest with young
	BCCH						::		F/0 S	Cor
	EABL							:	S	
-	COYE		•		S					
		I								
	BCCH		:		S					
	RRM									
	HOWR				V					
	COGR							•	F10	
	DCCO							•	FID	
	MODD						٠.	;	S	
-	GRCA		5		5,					
	care		4	3 <b>2</b> 2.						
	EAPH									
	BETH	•								
	AMRO	145.	2945							
	RENU	1	•		Þ					
	EATO			1	S					
	WOTH		:	•						
	MODO	•	•							
	CEDW			1						
	(OUR)			•						
	SWSP									
	WAVI			•	V					
	GBHR				FID					
	AMCR				FID					



Ľ	Breeding Bird Project # <u>/6367</u> Date: <u>30 / 06 /</u> 20/	60bserver		KH-1	FIND			Vis	sit # <u> </u>	-
	Vind (Beaufort scale									<u>/9</u> °C
S	Start Time: <u>457</u>	End Tim	ie: 6	43	Poin	t Coun	t#/	IAP49	3	
ι	JTM:									
ſ			0-	-5 min			5-	10 min		OBSERVED X - Observed in breeding se
	Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable nes
6	CHSP		:		S				Lindence	S - Singing male(s) PROBABLE
	EATO		1		1					P - Pair observed T - Permanent territory pres
Ī	SOSP	• :	•	•						D - Courtship or display V - Visiting probable nest si
t	NOCA			:						A - Agitated behaviour/anxi B - Brood Patch/cloacal pro
	MODO			:						CONFIRMED NB - Nest-building
	WISP		•		4					DD - Distraction display NU - Used nest or egg shells FY - Fledged/downy young
	Amer							1	S,	AE - Adult leaving or entering FS - Adult carrying fecal sac
Ī	AMRO									CF - Adult carrying food NE - Nest containing eggs
	AMRO	<b>4</b> 9	•		S		: •	•	1 L	NY - Nest with young
-	GRCA	:	•							Com
	EATU			•						
	CHSP		::	:						
	BRTH			•	*					
Ī	EAPH							:	S	
	RB6R						:		A	
T	EATO	*	3		S					
-[	SOSP	:	•							
.[	FISP		•	:	*					
	NAWA					•.	•		Ş	
	DOWD							*		
	BAWW		- 11					•		
	BAWW WTSP							*	+	
	MALL							12	FID	
	MALL HOWR						:		S	
	MODO					:	ě.		F10 S S landed	
	AMER					1			landed	
	oven		•		Ş					
۰Ľ	BAWW	-								
	RB6R	÷								
	BINW									
	FISP			•	4					
	WISP								S S	
	WAVI	_				•	•		S	



Breeding Bird : Project #/6367 Date:06_/20	Bobserver	·	DLA	1 1-111	1				11 ( 0-		
Vind (Beaufort scale)									<u>)2/</u> °C		
Start Time: 457	End Tim	ie:_6	43	Poin	t Coun	nt#/	NAPY	93			
JTM:											
		0	-5 min			5	-10 min	,	OBSERVED X - Observed in breeding		
Species	<50 m	>50m	>100m	Breeding Evidence	<50 m	>50m	>100m	Breeding Evidence	POSSIBLE H - Observed in suitable		
BTNW		•		5					S - Singing male(s) PROBABLE		
BAWW		•							P - Pair observed T - Permanent territory ( D - Courtship or display		
OVEN		:	•						V - Visiting probable nes A - Agitated behaviour/a		
BCCH									B - Brood Patch/cloacal (		
COYR REVI		:	•						NB - Nest-building DD - Distraction display		
Revi				4					NU - Used nest or egg sh FY - Fledged/downy you		
MODO								S,	AE - Adult leaving or ent FS - Adult carrying fecal s		
AMCR							: ·		CF - Adult carrying food NE - Nest containing egg		
CORA									NY - Nest with young		
RHWD							8		Cor		
VSFL							8	V			
BUA	•	•		S							
SCTA	100 A			FY/CF							
OVEN		•		5							
EATO		1									
DOWD	(										
WBNU	1			*							
EAMP							•	S,			
Revi					4						
CSWA							•				
MODO					(1)			V			
WOTH		3. <sup>1</sup>		S							
EAWP		:	•								
oven		•	•								
SCTA				*							
RBNU						::		SI			
BWA							:				
BBCU							4	t			
RBNU	:			S							
OVEN			*	S S							
EAWP RBWD WOTH			•	S							
RBWD						•		S			
WOTH							•	5000			
BCCH					<u>.</u>			S			

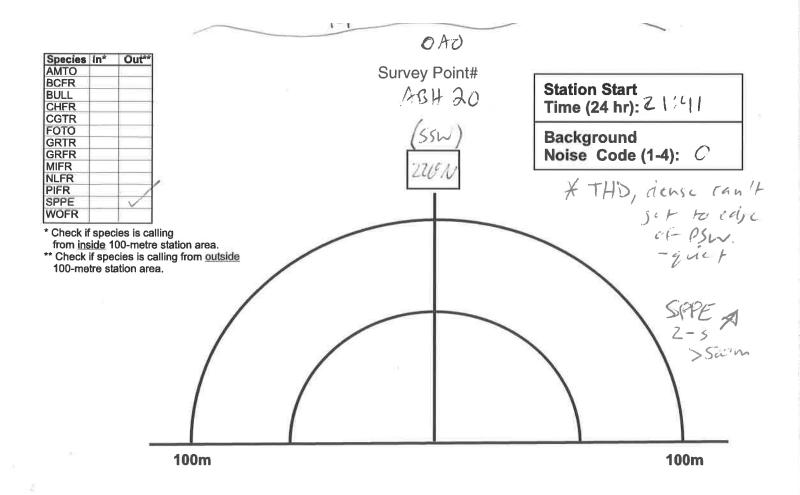


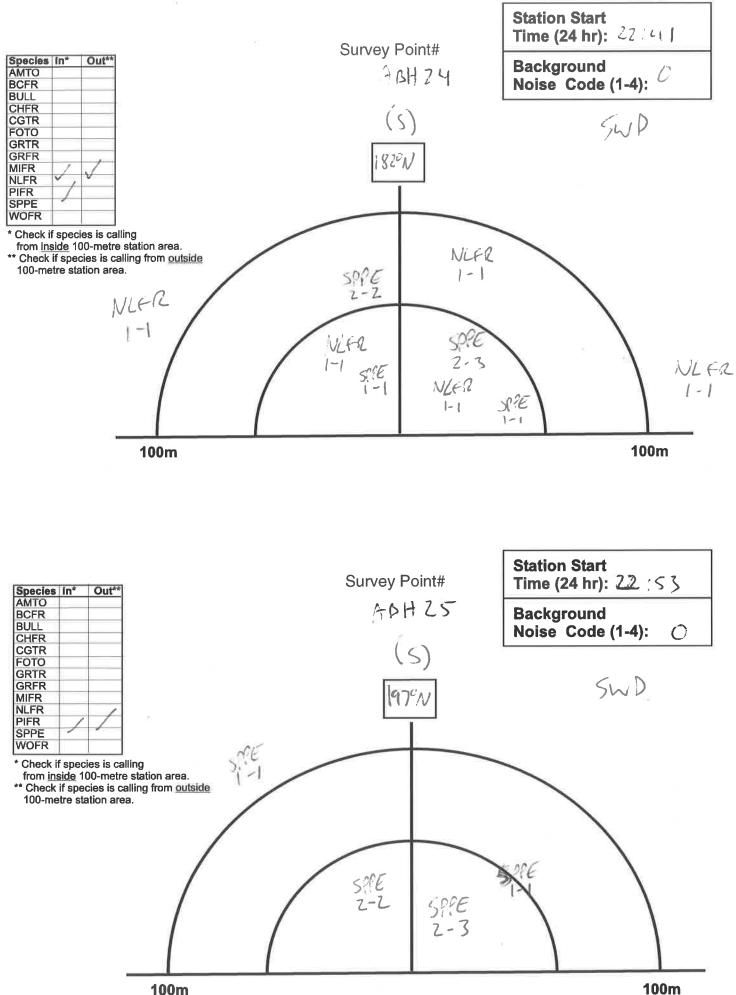
Project#

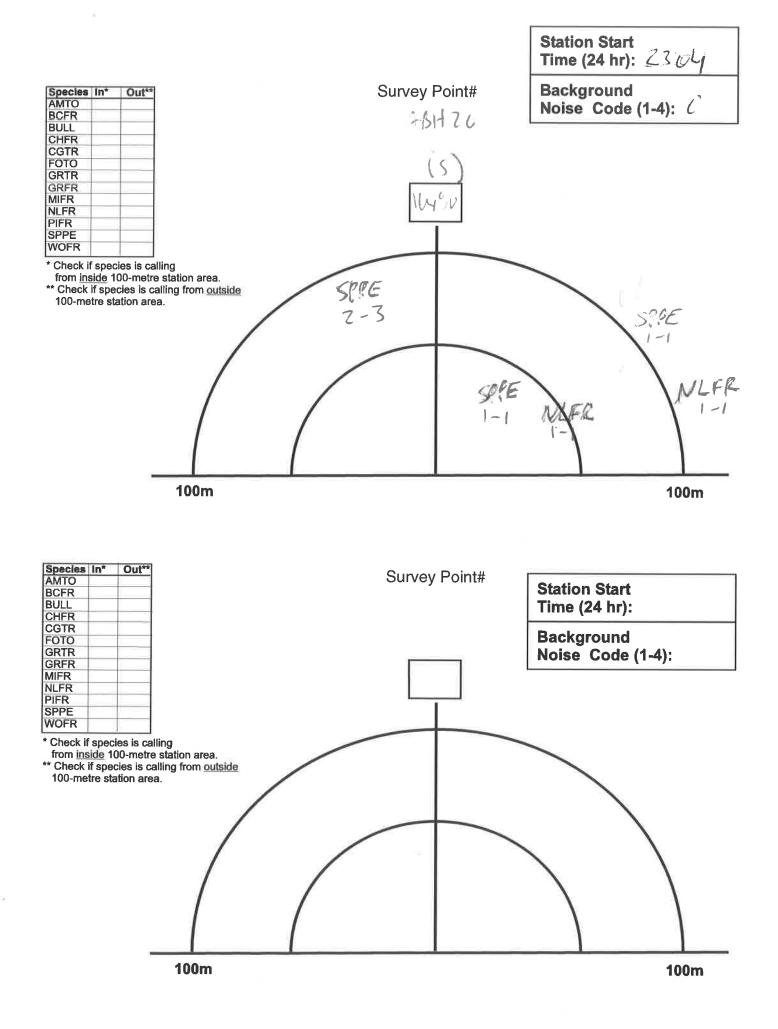
# Marsh Monitoring Program - Amphibian Data Form Return by 31 July Please write legibly (in pen).

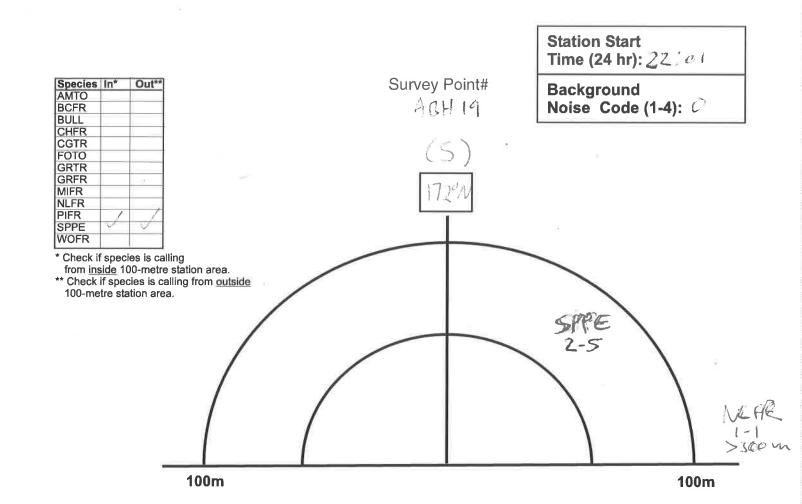
VISIT INFORMATION Subsct = 20:14 MONITORING PROGRAM
Route #: Loyalvt Route Name: Junthan Hans Station (A - H): 19-25
Observer #: Observer Name: Jour than 1 fams
Visit #: Day: Month: Year: Zcilla
Cloud Cover (10th): Temperature Cor °F): 10 Beaufort Wind Scale (0-6):
Precipitation (check one): None/Dry O Damp/Haze/Fog O Drizzle Rain
CALL LEVEL CODES
Code 1: Calls not simultaneous, number of individuals can be accurately counted
Code 2: Some calls simultaneous, number of individuals can be reliably estimated
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

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Field Staff Sign-off:\_

Project Coordinator Sign-off:

Amphibian Species Code	5	Background Noise Codes						
Species	Index	Index Description						
American Toad	AMTO	0	No appreciable effe	ect (e.g., owl ca	lling)			
Northern (Blanchard's) Cricket Frog	BCFR	1	Slightly affecting sa	mpling (e.g., di	stant traffic,			
Bullfrog	BULL		dog barking, car passin					
Chorus Frog	CHFR	2	Moderately affecting		., distant			
Cope's (Diploid) Gray Treefrog	CGTR	-	traffic, 2-5 cars pas					
Fowler's Toad	FOTO	3	3 Seriously affecting samp traffic nearby, 6-10 cars r					
Gray (Tetraploid) Treefrog	GRTR	4		g sampling (e.g., continuous				
Green Frog	GRFR		traffic passing, cons					
Mink Frog	MIFR		24 Hour Time					
Northern Leopard Frog	NLFR				04110			
Pickerel Frog	PIFR	-	<u>12 Hour</u> <u>24 Hour</u> 2:00 PM 1900	<u>12 Hour</u> 10:00 PM	<u>24 Hour</u> 2200			
Spring Peeper	SPPE		:00 PM 2000	11:00 PM	2300			
Wood Frog	WOFR	9	:00 PM 2100	12:00 PM	2400			

# **Beaufort Wind Scale**

Number	Wind Speed		Indicators						
	Km/h	Mph							
0	0-2	0-1	Calm, smoke rises vertically						
1	3-5	2-3	Light air movement, smoke drifts						
2	6-11	4-7	Slight breeze, wind felt on face						
3	12-19	8-12	Gentle breeze, leaves and small twigs in constant motion						
4*	20-30	13-18	Moderate breeze, small branches are moving, raises dust and loose paper						

\* Winds over Beaufort 3 are unacceptable for amphibian surveys.

Project# 16-3674

# Marsh Monitoring Program - Amphibian Data Form

Return by 31 July

Please write legibly (in pen).

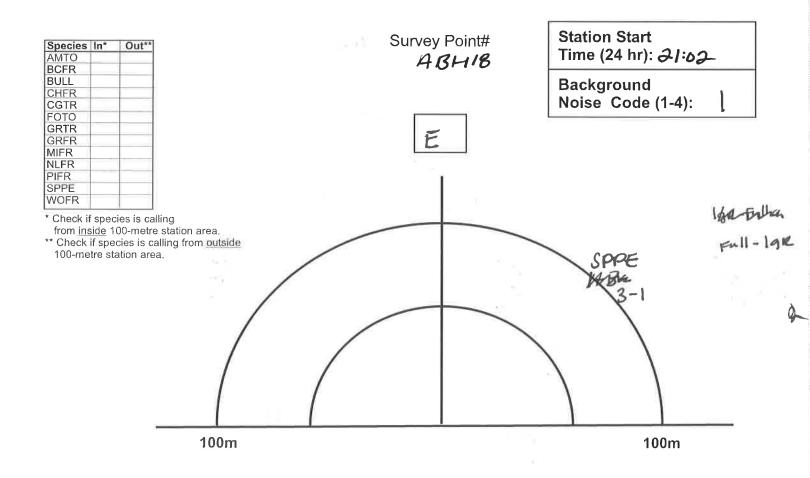


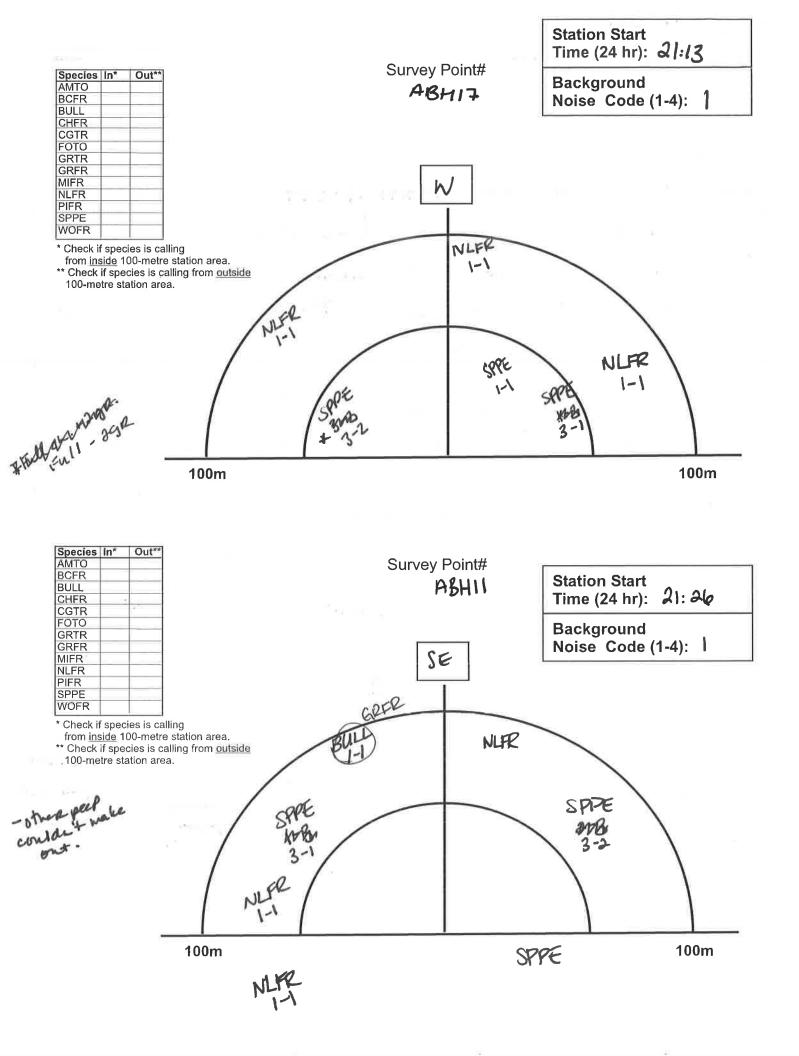
# **VISIT INFORMATION**

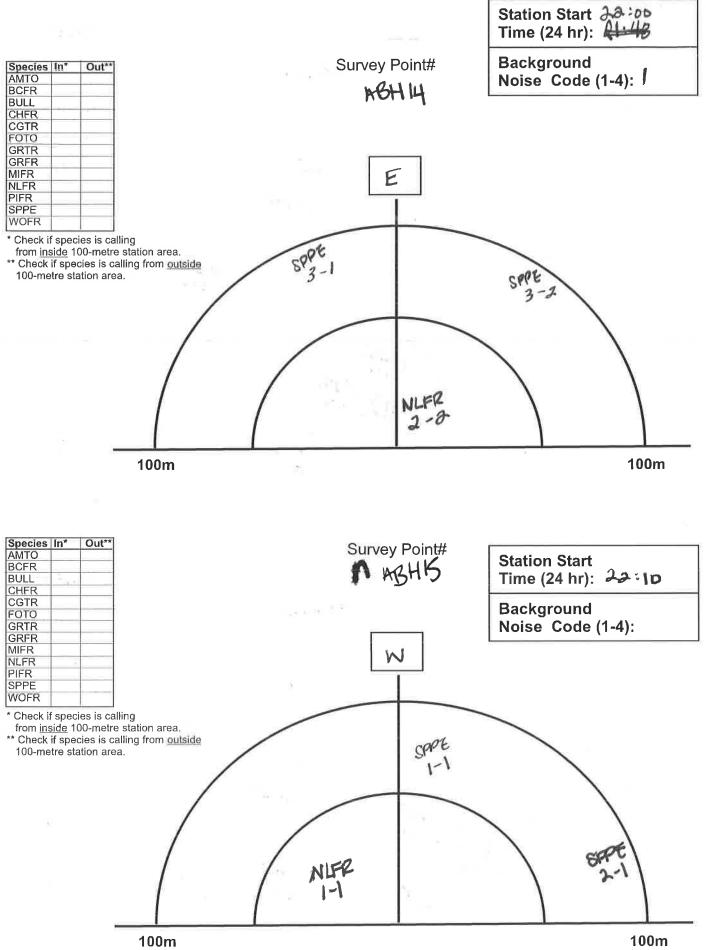
Route #: Route Name: <i>ABH 16-3674</i> Station (A - H):									
Observer #: <u>km</u> Observer Name: <u>Kelly McLean</u>									
Visit #: Day: Month: _Apps:/ Year:									
Cloud Cover (10th): Temperature (Cor °F): Beaufort Wind Scale (0-6):									
Precipitation (check one): 🗴 None/Dry 🔿 Damp/Haze/Fog 🔿 Drizzle 🔿 Rain									
CALL LEVEL CODES									
Code 1: Calls not simultaneous, number of individuals can be accurately counted									
Code 2: Some calls simultaneous, number of individuals can be reliably estimated									
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably									

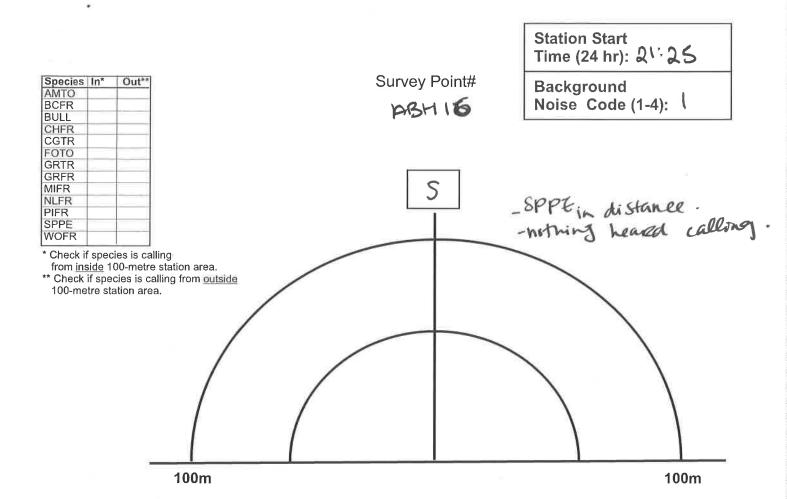
Amphdfmn2008.cdr, rev 02/2008

estimated









ield Staff Sign-off:\_\_\_

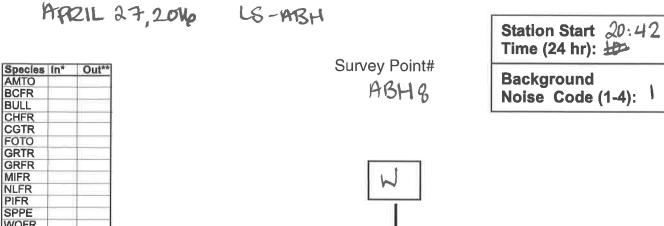
\_\_\_\_\_ Project Coordinator Sign-off:\_\_

Amphibian Species Code	S	Background Noise Codes					
Species	Species Code						
American Toad	AMTO	0 No appreciable effect (e.g., owl calling)					
Northern (Blanchard's) Cricket Frog	BCFR	1	Slightly affecting sal	mpling (e.g., di	stant traffic,		
Bullfrog	BULL		dog barking, car passing)				
Chorus Frog	CHFR	2					
Cope's (Diploid) Gray Treefrog	CGTR		traffic, 2-5 cars passing)				
Fowler's Toad	FOTO	3	traffic nearby, 6-10 cars passing)				
Gray (Tetraploid) Treefrog	GRTR	4					
Green Frog	GRFR	-	Profoundly affecting sampling (e.g., cor traffic passing, construction noise)				
Mink Frog	MIFR	-	24 Hou	ur Time			
Northern Leopard Frog	NLFR				Odllow		
Pickerel Frog	PIFR		2 Hour 24 Hour :00 PM 1900	<u>12 Hour</u> 10:00 PM	<u>24 Hour</u> 2200		
Spring Peeper	SPPE	15.	:00 PM 2000	11:00 PM	2300		
Wood Frog	WOFR		:00 PM 2100	12:00 PM	2400		

# **Beaufort Wind Scale**

Wind	Speed	Indicators					
Km/h	Mph						
0-2	0-1	Calm, smoke rises vertically					
3-5	2-3	Light air movement, smoke drifts					
6-11	4-7	Slight breeze, wind felt on face					
12-19	8-12	Gentle breeze, leaves and small twigs in constant motion					
.20-30	13-18	Moderate breeze, small branches are moving, raises dust an loose paper					
	Km/h 0-2 3-5 6-11 12-19	0-2         0-1           3-5         2-3           6-11         4-7           12-19         8-12					

\* Winds over Beaufort 3 are unacceptable for amphibian surveys.



Spp

NLER

NER

SPP

SPPE

2-3

NE

\* Check if species is calling from Inside 100-metre station area. \*\* Check If species is calling from outside

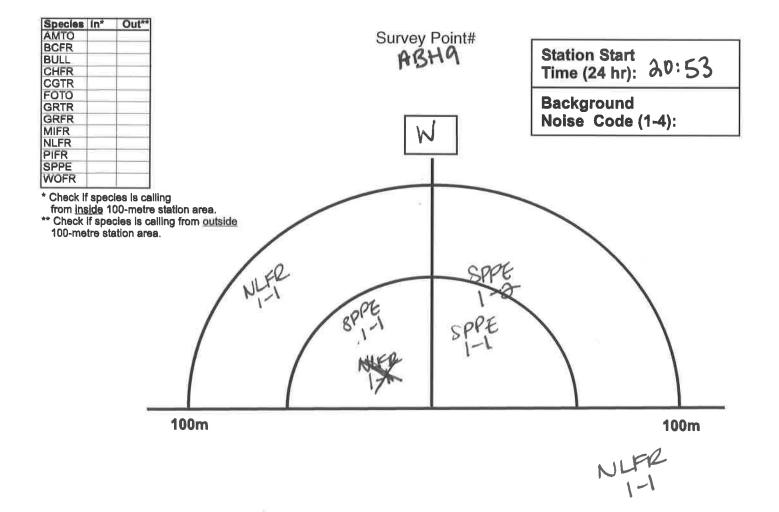
BCFR BULL CHFR CGTR FOTO GRTR GRFR

MIFR NLFR PIFR SPPE WOFR

100-metre station area.

100m

100m



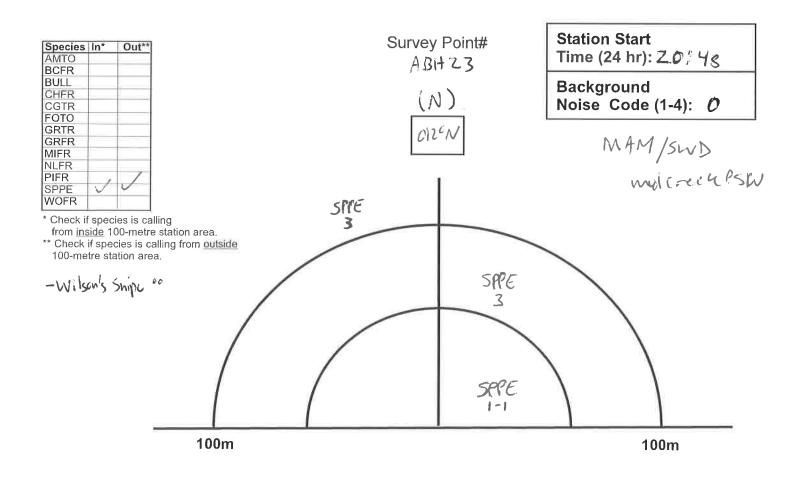
Project#

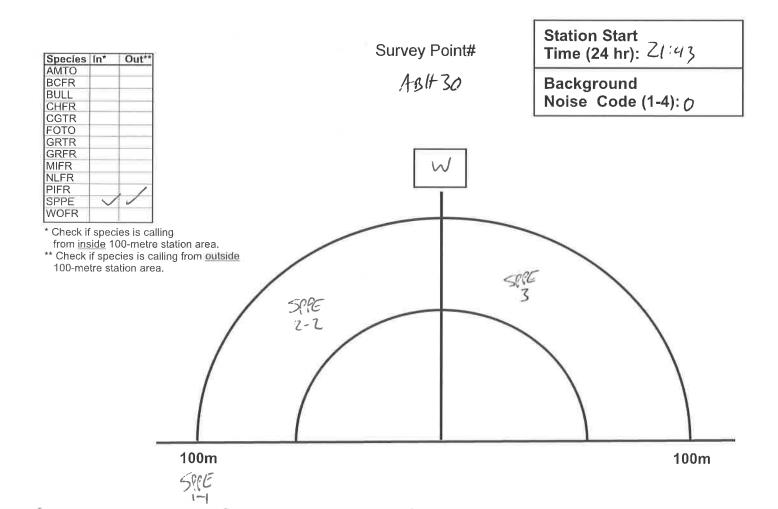
# Marsh Monitoring Program - Amphibian Data Form Return by 31 July

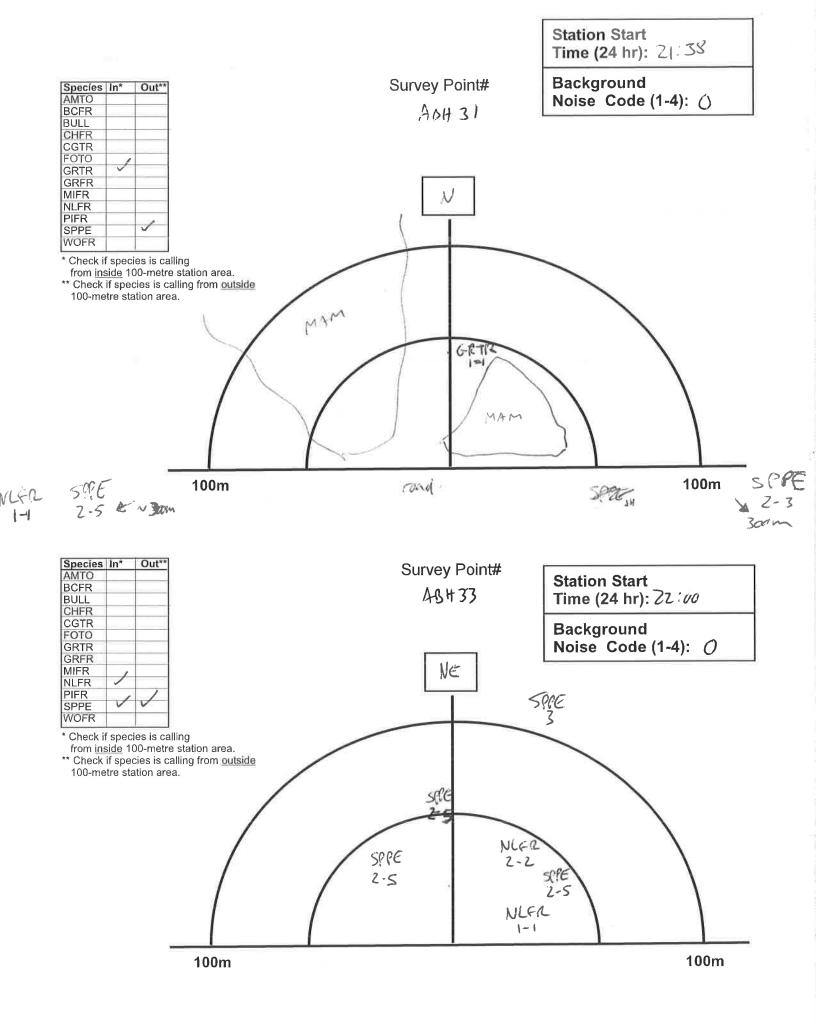
Please write legibly (in pen).

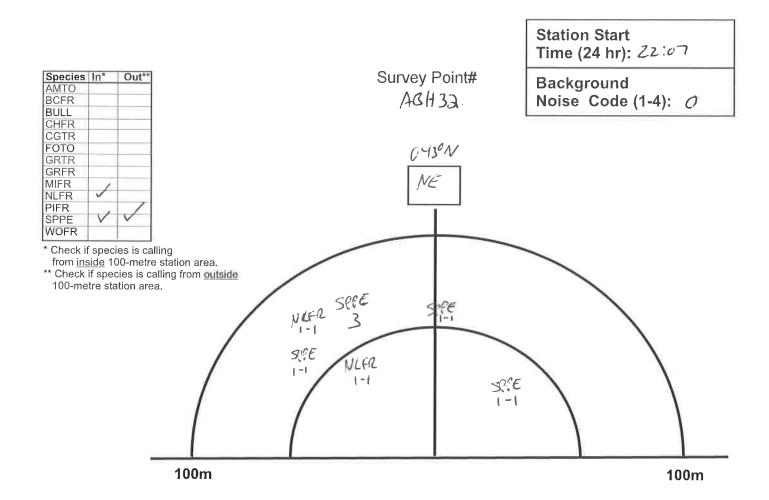
VISIT INFORMATION Sunset = 20:14
Route #: Route Name: Station (A - H):
Observer #: JWH Observer Name: Jona Han Harris
Visit #: Day: Month: Year:
Cloud Cover (10th): SO Temperature Cor °F): Deaufort Wind Scale (0-6): O-1
Precipitation (check one): None/Dry O Damp/Haze/Fog O Drizzle O Rain
CALL LEVEL CODES
Code 1: Calls not simultaneous, number of individuals can be accurately counted
Code 2: Some calls simultaneous, number of individuals can be reliably estimated
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

Amphdfrm2008 cdr, rev 02/2008









ield Staff Sign-off:\_\_\_\_

Sign-off:	Projec	ct Coord	inator Sign	-off:				
Amphibian Species Code	Background Noise Codes							
Species	Index	Index Description						
American Toad	AMTO	0	No app	reciable effe	ect (e.g., owl ca	lling)		
Northern (Blanchard's) Cricket Frog	BCFR	1	1 Slightly affecting sampling (e.g., distant tra dog barking, car passing)					
Bullfrog	BULL							
Chorus Frog	CHFR	2						
Cope's (Diploid) Gray Treefrog	CGTR		traffic, 2-5 cars passing)		101			
Fowler's Toad	FOTO	3	Seriously affecting sampling (e.g., continue traffic nearby, 6-10 cars passing)					
Gray (Tetraploid) Treefrog	GRTR	4						
Green Frog	GRFR	4	Profoundly affecting sampling (e.g., contir traffic passing, construction noise)					
Mink Frog	MIFR				í í			
Northern Leopard Frog	NLFR		0.11	and the second sec	ur Time	044		
Pickerel Frog	PIFR			24 Hour	<u>12 Hour</u>	<u>24 Hour</u>		
Spring Peeper	SPPE		:00 PM :00 PM	1900 2000	10:00 PM 11:00 PM	2200 2300		
Wood Frog	WOFR		:00 PM	2100	12:00 PM	2400		

# **Beaufort Wind Scale**

Number	Wind Speed		Indicators	
	Km/h	Mph		
0	0-2	0-1	Calm, smoke rises vertically	
1	3-5	2-3	Light air movement, smoke drifts	
2	6-11	4-7	Slight breeze, wind felt on face	
3	12-19	8-12	Gentle breeze, leaves and small twigs in constant motion	
4*	20-30	13-18	Moderate breeze, small branches are moving, raises dust and loose paper	

\* Winds over Beaufort 3 are unacceptable for amphibian surveys.

Project# 16-3674

# Marsh Monitoring Program - Amphibian Data Form Return by 31 July

Please write legibly (in pen).

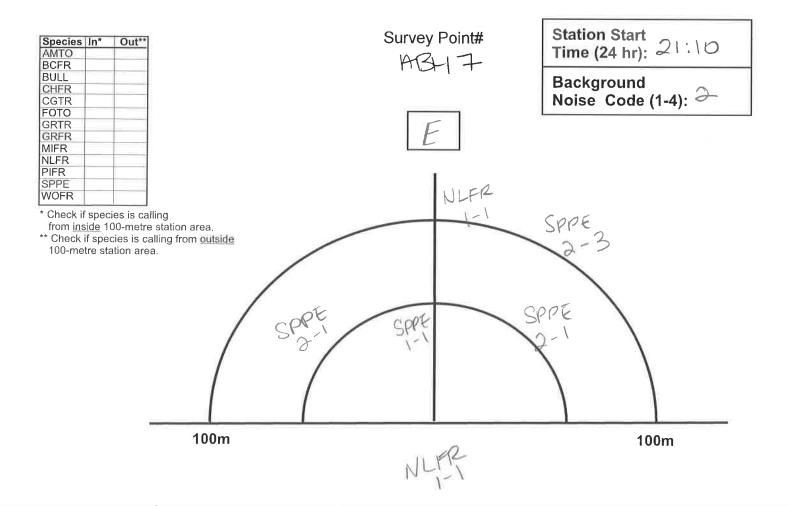


VISIT	INFORM	<b>JATION</b>
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Route #: Route Name: LS-A-B-I 16-3674 Station (A - H):				
Observer #: Kelly Malean				
Visit #: Day: Month: Appril Year:				
Cloud Cover (10th): <u> </u>				
Precipitation (check one): 🔗 None/Dry 🔿 Damp/Haze/Fog 🔿 Drizzle 🔿 Rain				
CALL LEVEL CODES				
Code 1: Calls not simultaneous, number of individuals can be accurately counted				
Code 2: Some calls simultaneous, number of individuals can be reliably estimated				

Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

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Project#

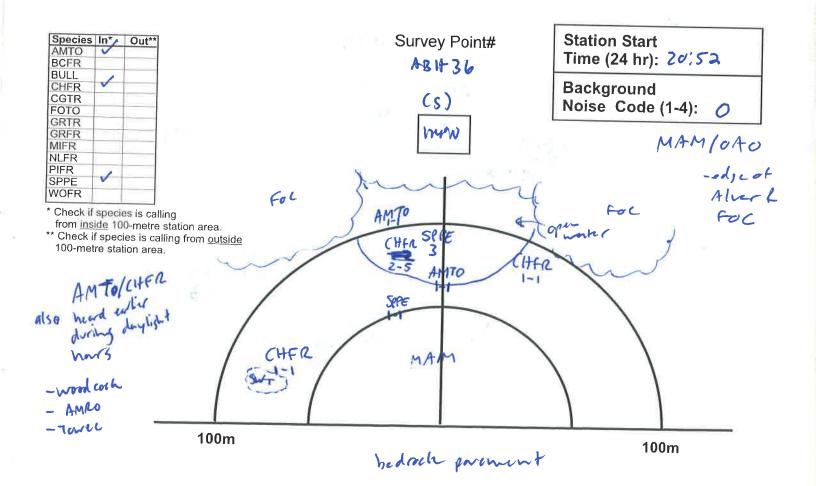
16-36741

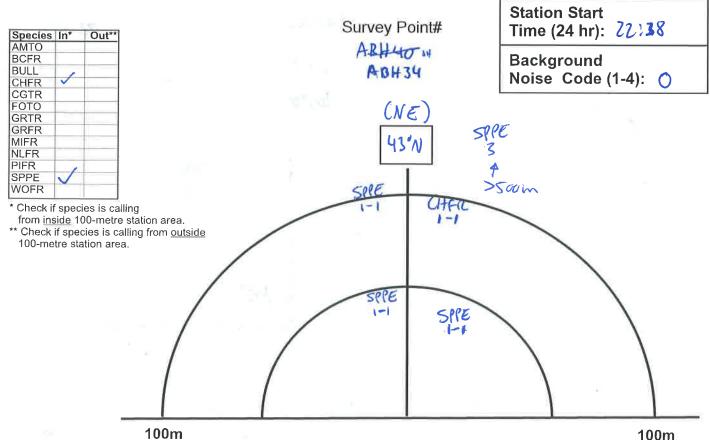
# Marsh Monitoring Program - Amphibian Data Form Return by 31 July

Please write legibly (in pen).

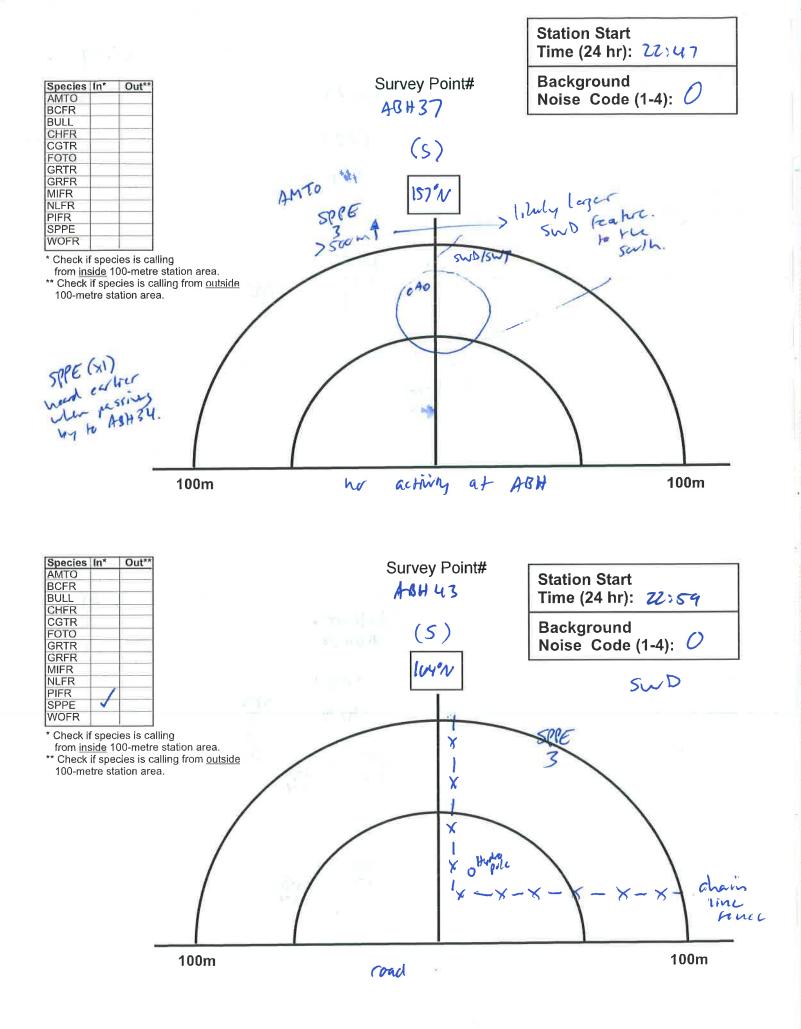
VISIT INFORMATION Subset: 20:22 MONITORING PROGRAM					
Route #: Route Name: Loyalist solar Station (A - H):					
Observer #: JWH Observer Name: Jone than Herris					
Visit #: Day: Month: Year:					
Cloud Cover (10th): <u>so</u> Temperature (Cor °F): <u>1</u> Beaufort Wind Scale (0-6): <u>1-3</u>					
Precipitation (check one): 🚫 None/Dry 🔿 Damp/Haze/Fog 🔿 Drizzle 🔿 Rain					
CALL LEVEL CODES					
Code 1: Calls not simultaneous, number of individuals can be accurately counted					
Code 2: Some calls simultaneous, number of individuals can be reliably estimated					
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated					

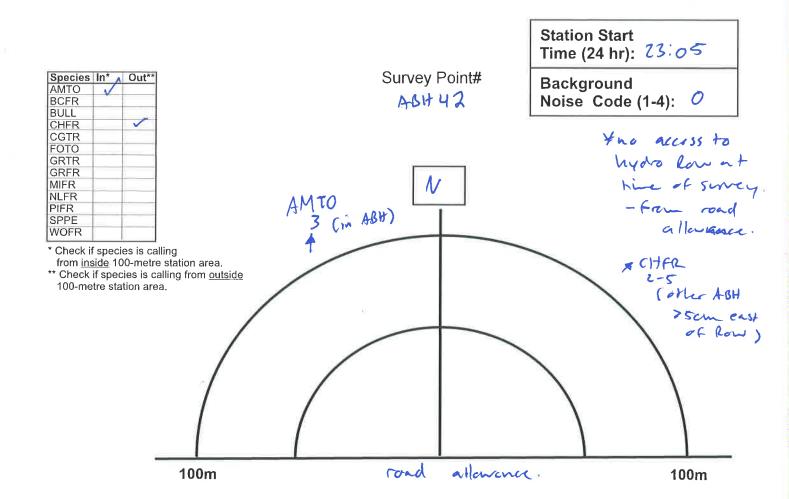
Amphdfrm2008 cdr, rev 02/2008





100m





ield Staff Sign-off:\_\_\_\_\_

Project Coordinator Sign-off:\_

Amphibian Species Code	Background Noise Codes					
Species	Code	Index	Index Description			
American Toad	AMTO	0	0 No appreciable effect (e.g., owl calling)			lling)
Northern (Blanchard's) Cricket Frog	BCFR	1	1 Slightly affecting sampling (e.g., distant traffic,			
Bullfrog	BULL		dog barking, car passing)			
Chorus Frog	CHFR	2				., distant
Cope's (Diploid) Gray Treefrog	CGTR		traffic, 2-5 cars passing)			
Fowler's Toad	FOTO	3	3 Seriously affecting sampling (e.g., continuous traffic nearby, 6-10 cars passing)			continuous
Gray (Tetraploid) Treefrog	GRTR	4				opptinuoup
Green Frog	GRFR	4	4 Profoundly affecting sampling (e.g., continuou traffic passing, construction noise)			., continuous
Mink Frog	MIFR	24 Hour Time				
Northern Leopard Frog	NLFR		12 Hour			24 Hours
Pickerel Frog	PIFR		:00 PM	<u>24 Hour</u> 1900	<u>12 Hour</u> 10:00 PM	<u>24 Hour</u> 2200
Spring Peeper	SPPE		:00 PM	2000	11:00 PM	2300
Wood Frog	WOFR	9:00 PM 2100 12:00 PM 2400				

### **Beaufort Wind Scale**

Number	Wind	Speed	Indicators
	Km/h	Mph	
0	0-2	0-1	Calm, smoke rises vertically
1	3-5	2-3	Light air movement, smoke drifts
2	6-11	4-7	Slight breeze, wind felt on face
3	12-19	8-12	Gentle breeze, leaves and small twigs in constant motion
4*	20-30	13-18	Moderate breeze, small branches are moving, raises dust and loose paper

Project# 16-3674

# Marsh Monitoring Program - Amphibian Data Form Return by 31 July

Please write legibly (in pen).





Route #: 20:37 Route Name: <u>Loyalist</u>	Station (A - H):
Observer #: JWH Observer Name: Jon Harris + Ko	ite Roper
Visit #: <u>2</u> Day: <u>2</u> Month: <u>May</u> Year: _	2016
Cloud Cover (10th): <u>207</u> . Temperature (°C or °F): <u>23°C</u> Beaufort W	ind Scale (0-6):
Precipitation (check one): None/Dry O Damp/Haze/Fog	Drizzle 🔵 Rain
CALL LEVEL CODES	

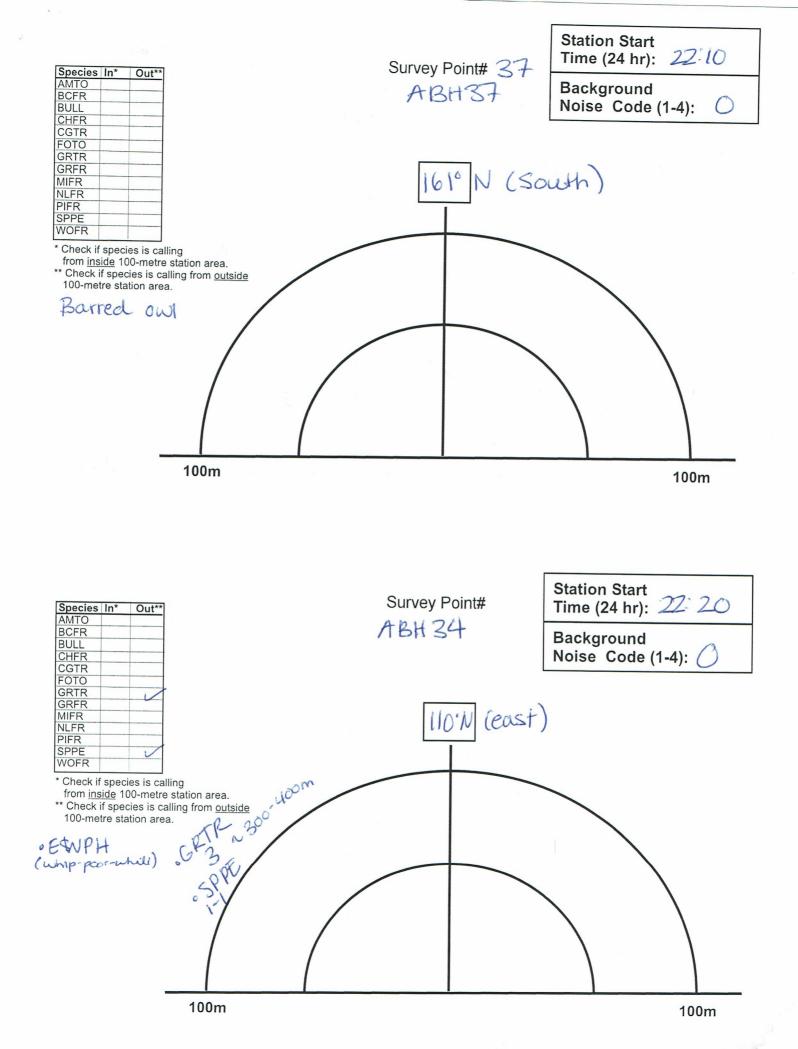
Code 1: Calls not simultaneous, number of individuals can be accurately counted

Code 2: Some calls simultaneous, number of individuals can be reliably estimated

Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

Amphdfrm2008.cdr, rev 02/2008

Species In* Out** AMTO BCFR			rvey Point# ABH 38	Station Start Time (24 hr):	21:11
BULL CHFR CGTR FOTO				Background Noise Code (	1-4): ()
GRTR V GRFR V MIFR NLFR PIFR			$\mathcal{N}$		
SPPE         V           WOFR         *           * Check if species is call from inside 100-metre           ** Check if species is call	station area.		CREE		
100-metre station area			1-1 • GRA		
Wood Hhrish E. Wood Pewce			$\square$	GETE	
muskrat		SPPE	SPPE SPPE	1-1	SPPE
Arrived a	100m + Site early,	~S GRTR	Calling	100	Ĵm



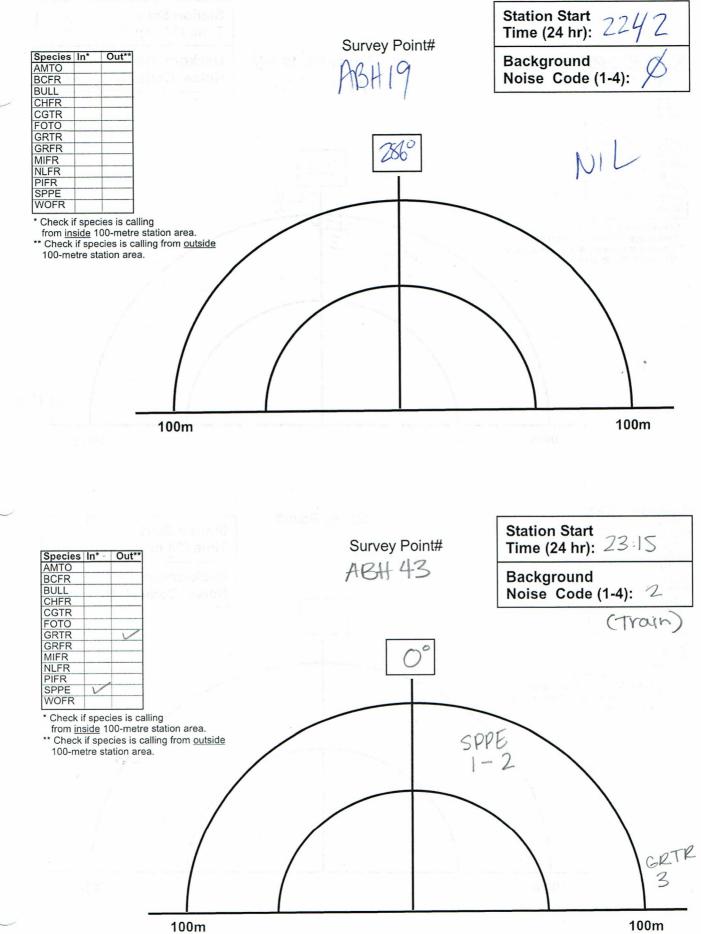
D 1	
Pro	ect#

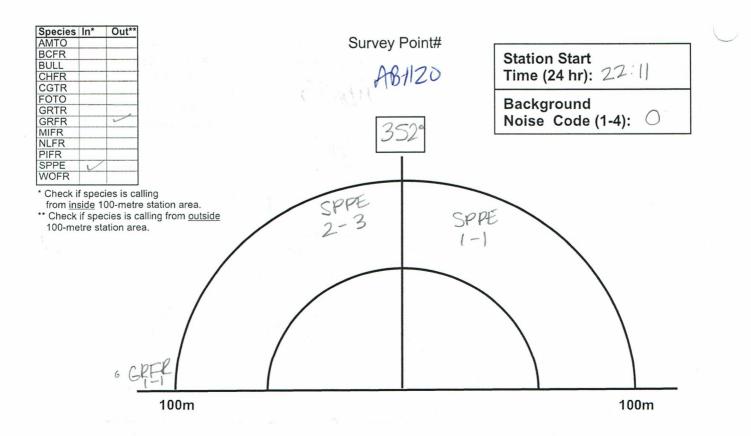
# Marsh Monitoring Program - Amphibian Data Form Return by 31 July Please write legibly (in pen).

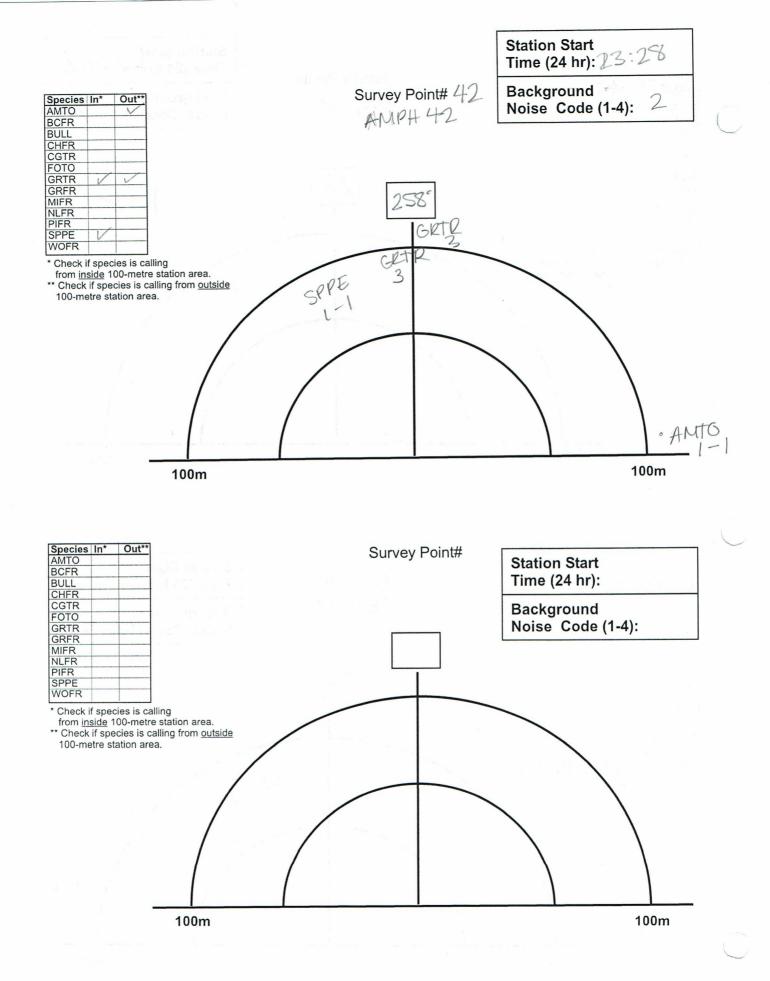


**VISIT INFORMATION** 

Route #: Route Name: LYAUST	Station (A - H):
Observer #: Observer Name:	bellair & Kate Roper
Visit #: Day: Month:May	Year:2016
Cloud Cover (10th): $\frac{1}{10}$ Temperature (°C or °F): 22 E	Beaufort Wind Scale (0-6):
Precipitation (check one): 🚫 None/Dry 🔘 Damp/Haze/F	og 🔵 Drizzle 🔵 Rain
CALL LEVEL CODES	
Code 1: Calls not simultaneous, number of individuals can be accur	rately counted
Code 2: Some calls simultaneous, number of individuals can be reli	ably estimated
Code 3: Full chorus, calls continuous and overlapping, number of ir estimated	ndividuals cannot be reliably
Amphdfim2008.cdr, rev 02/2008	
Species In* Out**	Station Start Time (24 hr): 2114
BCFR ABH23	Background
CHFR CGTR FOTO	Noise Code (1-4):
GRTR V ·/ GRFR MIFR	
NLFR PIFR	
SPPE V V WOFR GETF	
* Check if species is calling from inside 100-metre station area. ** Check if species is calling from outside	
100-metre station area.	000
	SPPE 2-4
52-3	
100m	100m







Project# 16-3674

# Marsh Monitoring Program - Amphibian Data Form

Return by 31 July

Please write legibly (in pen).

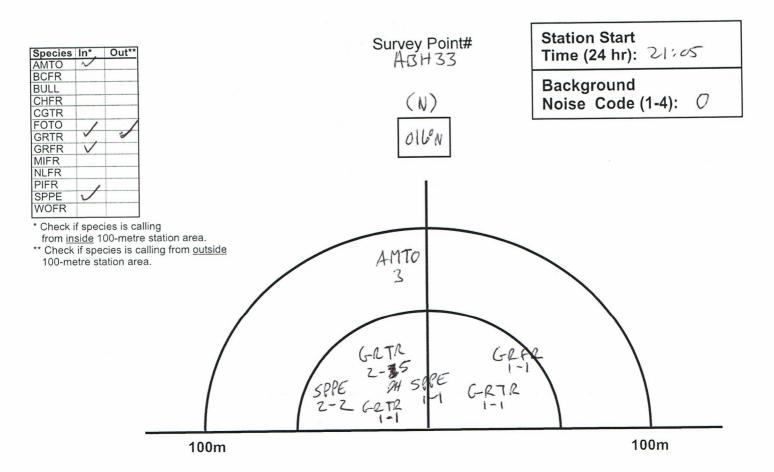


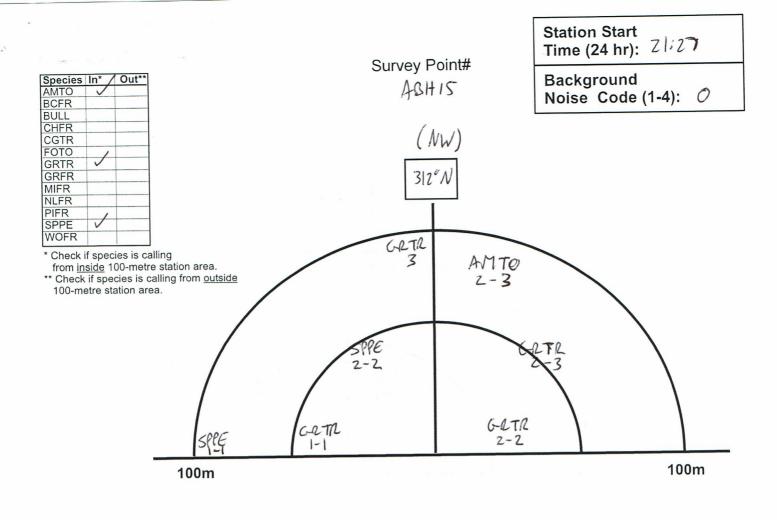
### VISIT INFORMATION

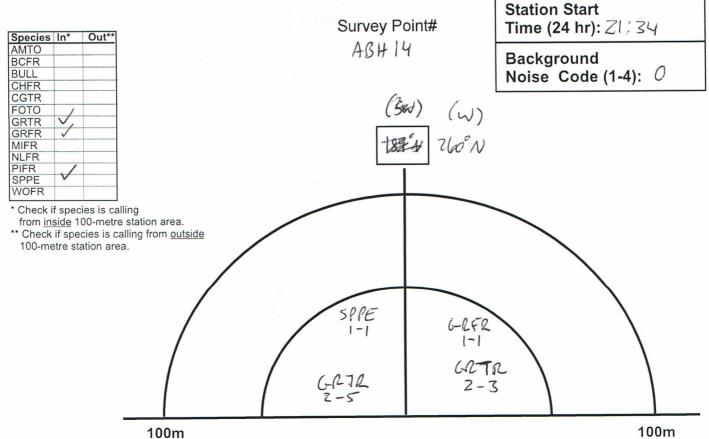
Route #: 20:35 Route Name: Loyalist Solar Station (A - H):					
Surset: Observer #: JWH Observer Name: Johathan Hamis					
Visit #: Day: Month: Year:/					
Cloud Cover (10th): 16% Temperature (°C or °F): 26 Beaufort Wind Scale (0-6): 0-1					
Precipitation (check one):					
CALL LEVEL CODES					
Code 1: Calls not simultaneous, number of individuals can be accurately counted					
Code 2: Some calls simultaneous, number of individuals can be reliably estimated					

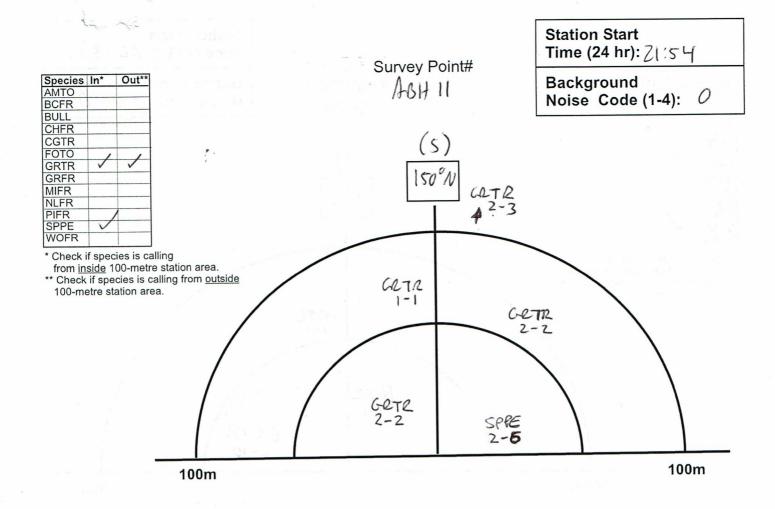
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

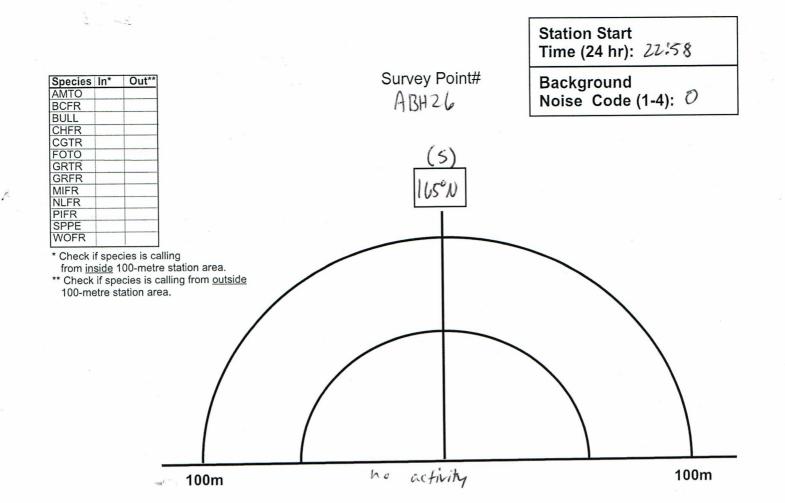
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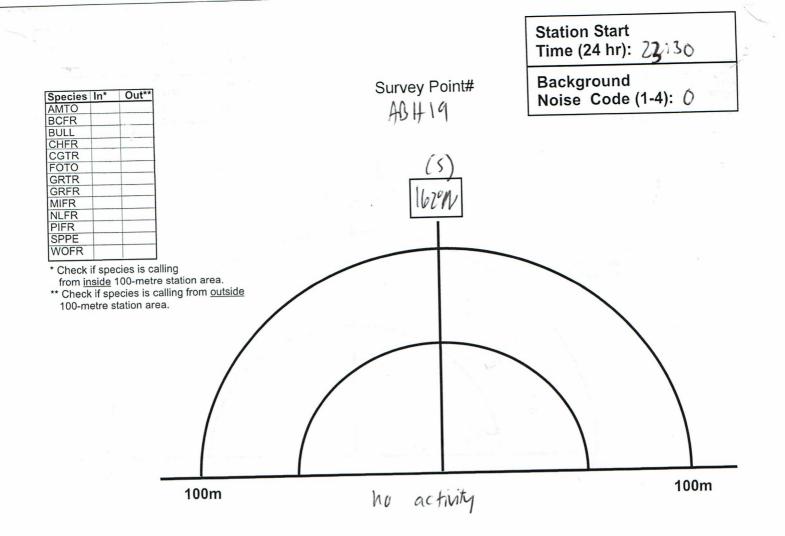
ield Staff Sign-off:\_

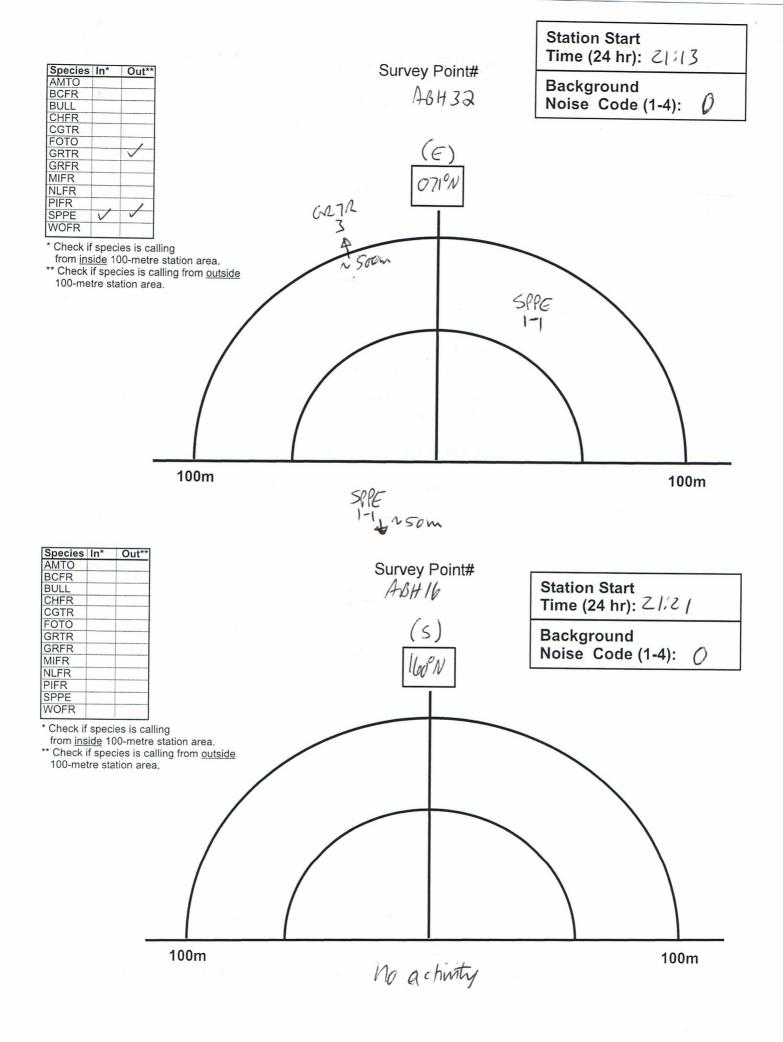
Project Coordinator Sign-off:

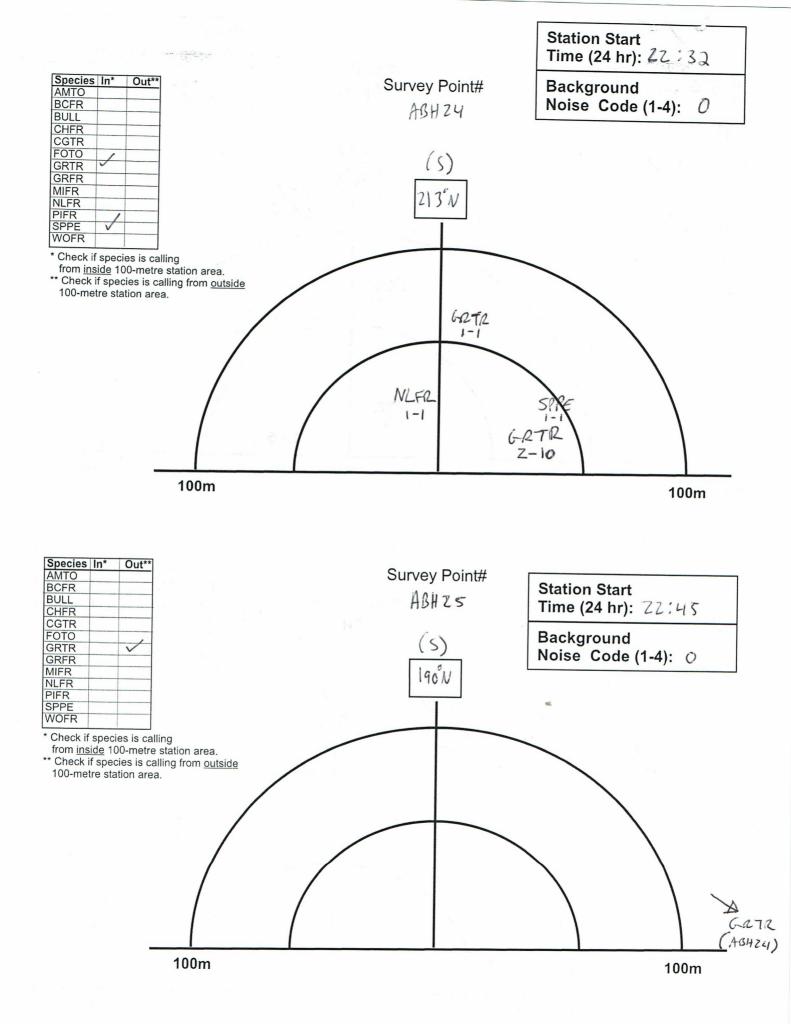
Amphibian Species Codes			Background Noise Codes		
Species	Species Code			ex Description	
American Toad	AMTO	0 No appreciable effect (e.g., owl calling)			ling)
Northern (Blanchard's) Cricket Frog	BCFR	1	1 Slightly affecting sampling (e.g., distant traffic, dog barking, car passing)		
Bullfrog	BULL				
Chorus Frog	CHFR	2	Moderately affecting sampling (e.g., distant		
Cope's (Diploid) Gray Treefrog	CGTR		traffic, 2-5 cars passing)		aantinuouo
Fowler's Toad	FOTO	3	Seriously affecting sampling (e.g., continuous traffic nearby, 6-10 cars passing)		
Gray (Tetraploid) Treefrog	GRTR	4			, continuous
Green Frog	GRFR		traffic passing, construction noise)		
Mink Frog	MIFR		24 Hour Time		
Northern Leopard Frog	NLFR		12 Hour 24 Hour	12 Hour	24 Hour
Pickerel Frog	PIFR	11 -	7:00 PM 1900	10:00 PM	2200
Spring Peeper	SPPE	11	8:00 PM 2000 11:00 PM 2		2300
Wood Frog	WOFR		9:00 PM 2100 12:00 PM 2400		

#### **Beaufort Wind Scale**

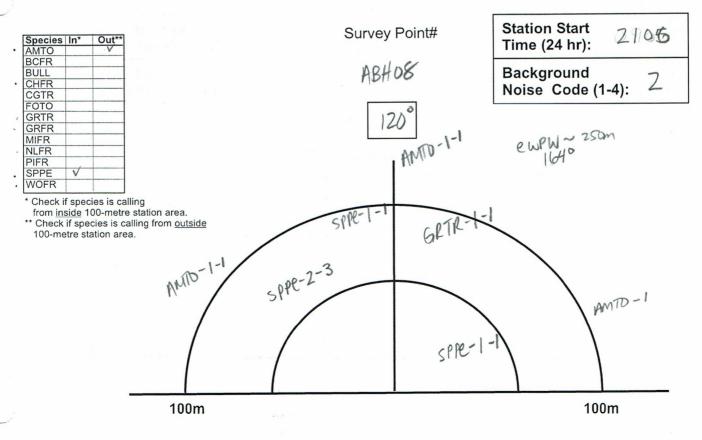
Number Wind Speed		Speed	Indicators
	Km/h	Mph	
0	0-2	0-1	Calm, smoke rises vertically
1	3-5	2-3	Light air movement, smoke drifts
2	6-11	4-7	Slight breeze, wind felt on face
3	12-19	8-12	Gentle breeze, leaves and small twigs in constant motion
4*	20-30	13-18	Moderate breeze, small branches are moving, raises dust and loose paper

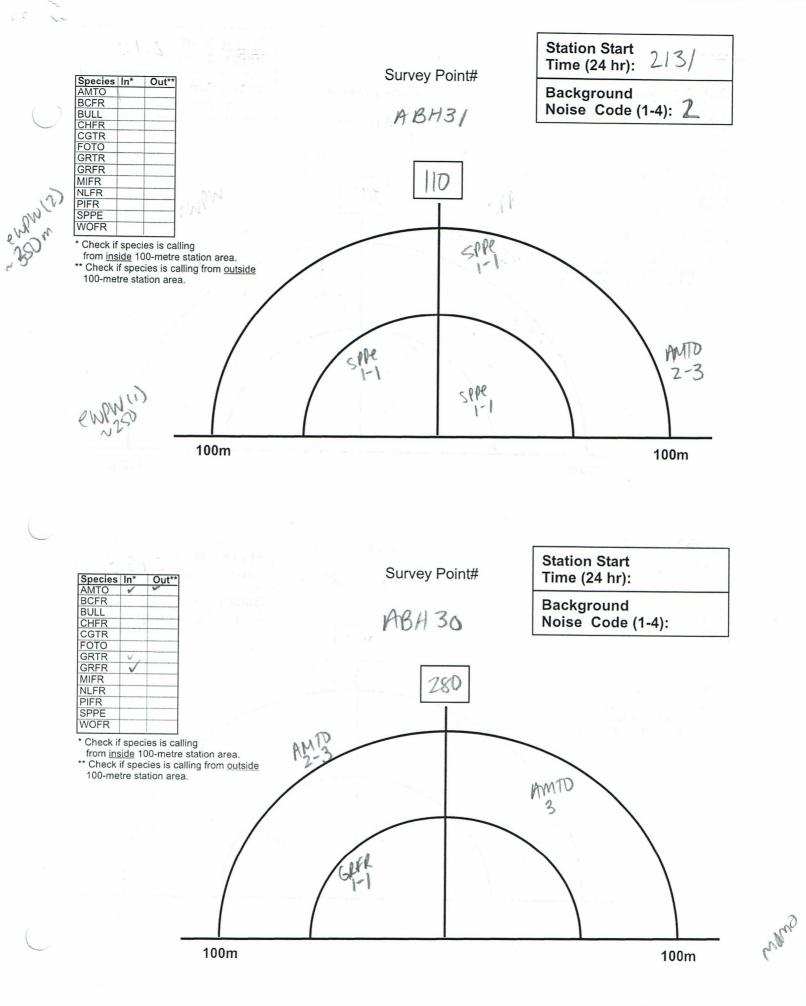




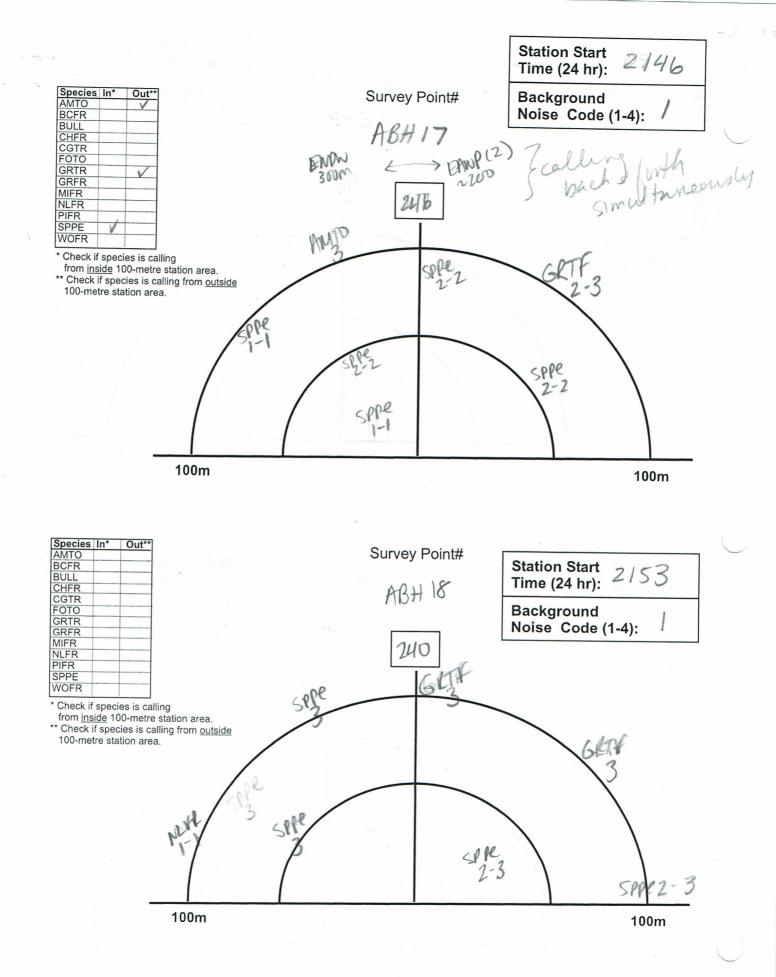


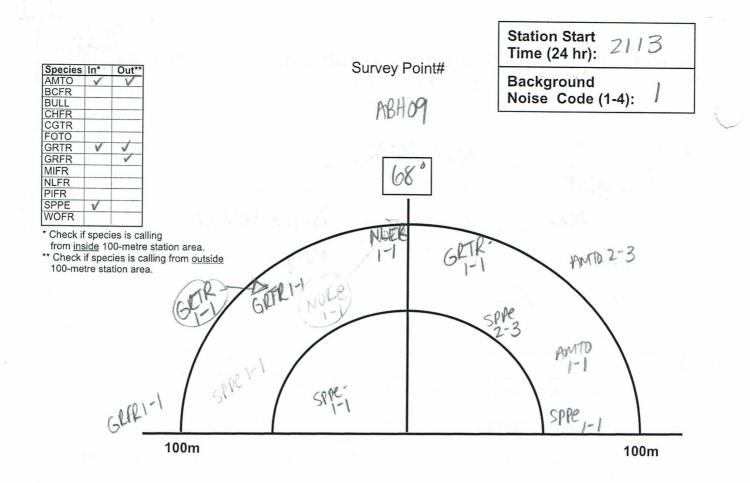
Project# Marsh Monitoring Program - Amphibian Data Form Return by 31 July Please write legibly (in pen).
VISIT INFORMATION SUNSET 2/03
Route #: Loyalist Route Name: Station (A - H):
Observer #: DLL Observer Name: Dayna LeClair
Visit #: Day: Month: Year: Z016
Cloud Cover (10th): Temperature (°C or °F): Beaufort Wind Scale (0-6):
Precipitation (check one): None/Dry Damp/Haze/Fog Drizzle Rain
CALL LEVEL CODES
Code 1: Calls not simultaneous, number of individuals can be accurately counted
Code 2: Some calls simultaneous, number of individuals can be reliably estimated
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated
Amphdfrm2008.cdr, rev 02/2008





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Project#

# 16-3674

# Marsh Monitoring Program - Amphibian Data Form Return by 31 July

Please write legibly (in pen).

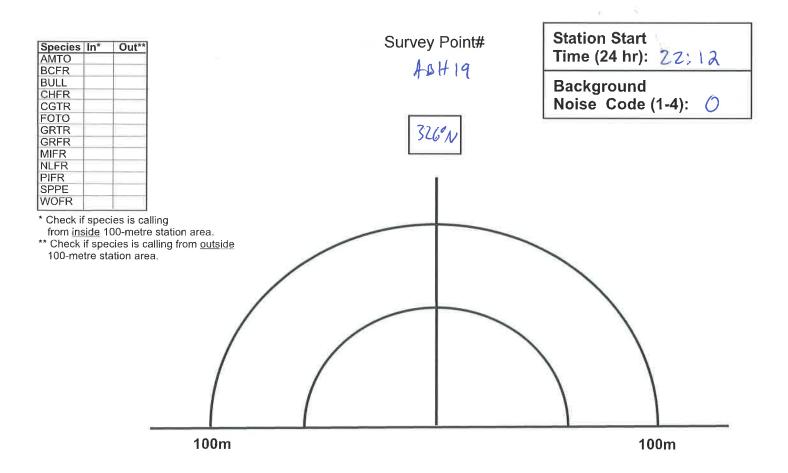


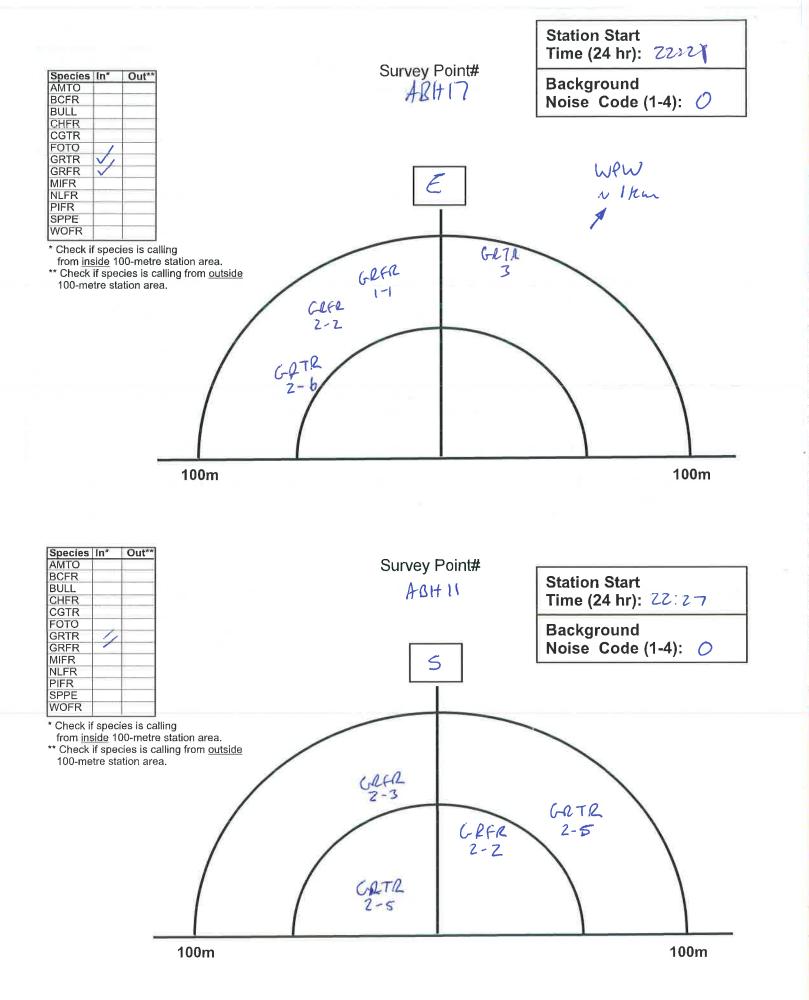
### **VISIT INFORMATION**

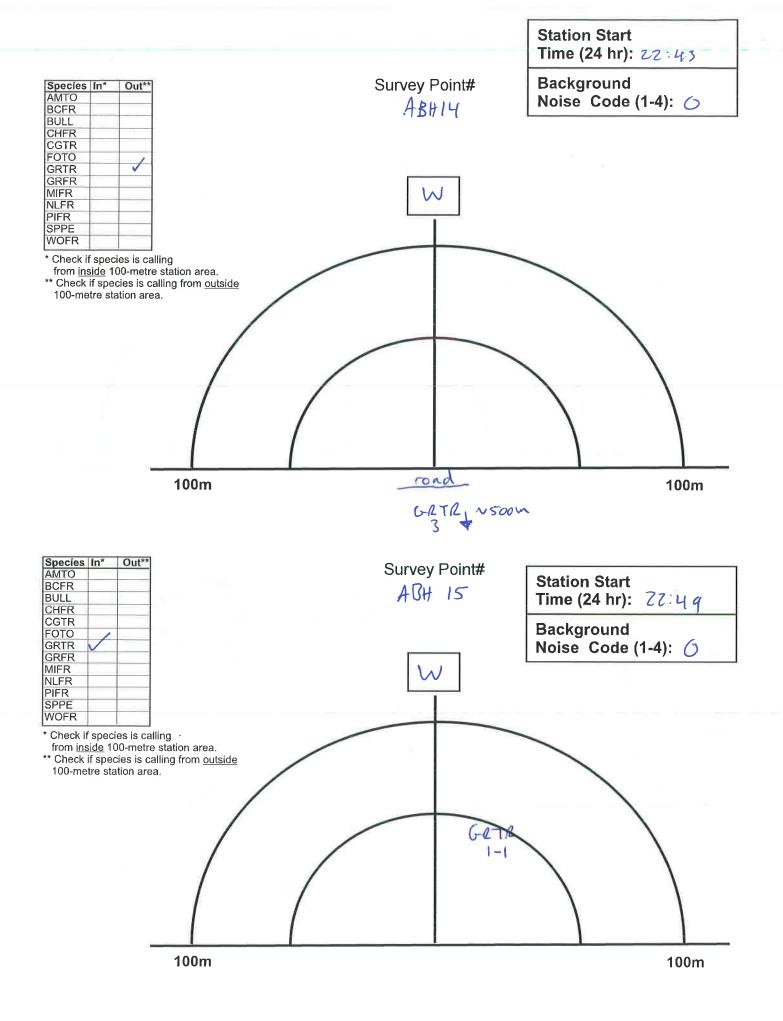
Route #: Route Name: Leyal 3+	Station (A - H):					
Observer #: Observer Name: Jan than 1	tarris					
Visit #: <u>3</u> Day: <u>15</u> Month: <u>Jve</u> Year:	2016					
Cloud Cover (10th): 100 Temperature Cor °F): 17 Beaufort	Wind Scale (0-6):					
Precipitation (check one): 🚫 None/Dry 🔿 Damp/Haze/Fog 🔿 Drizzle 🔿 Rain						
CALL LEVEL CODES						
Code 1: Calls not simultaneous, number of individuals can be accurately counted						
Code 2: Some calls simultaneous, number of individuals can be reliably estimated						

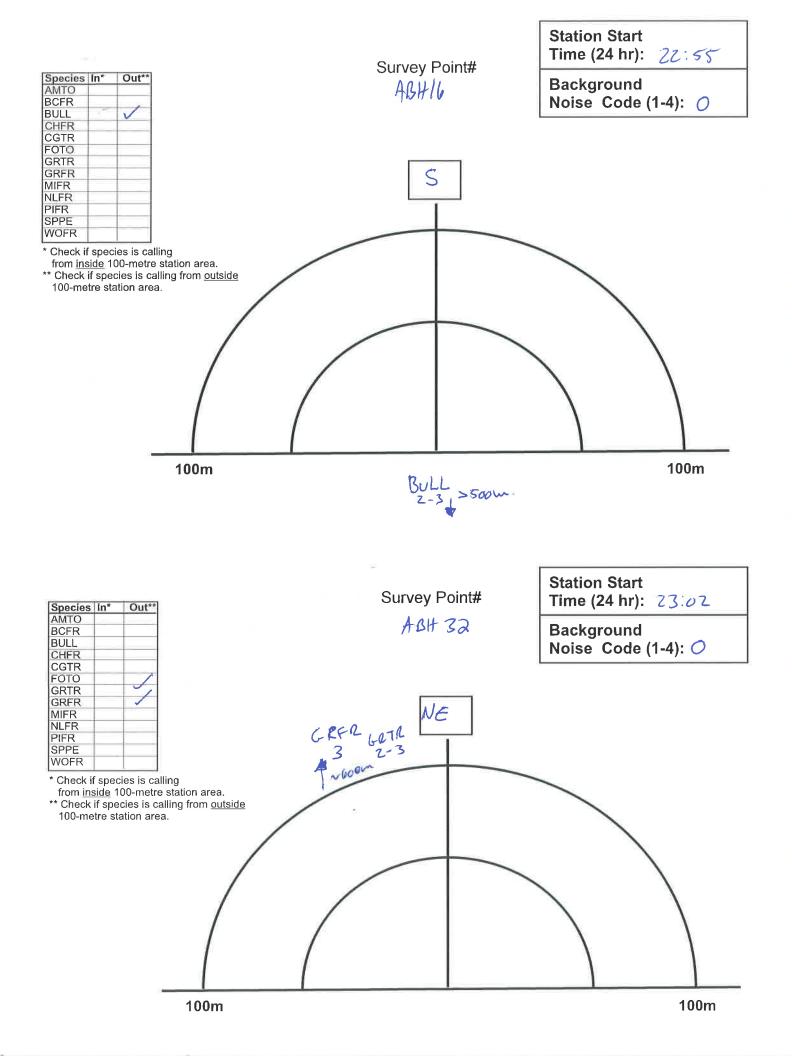
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

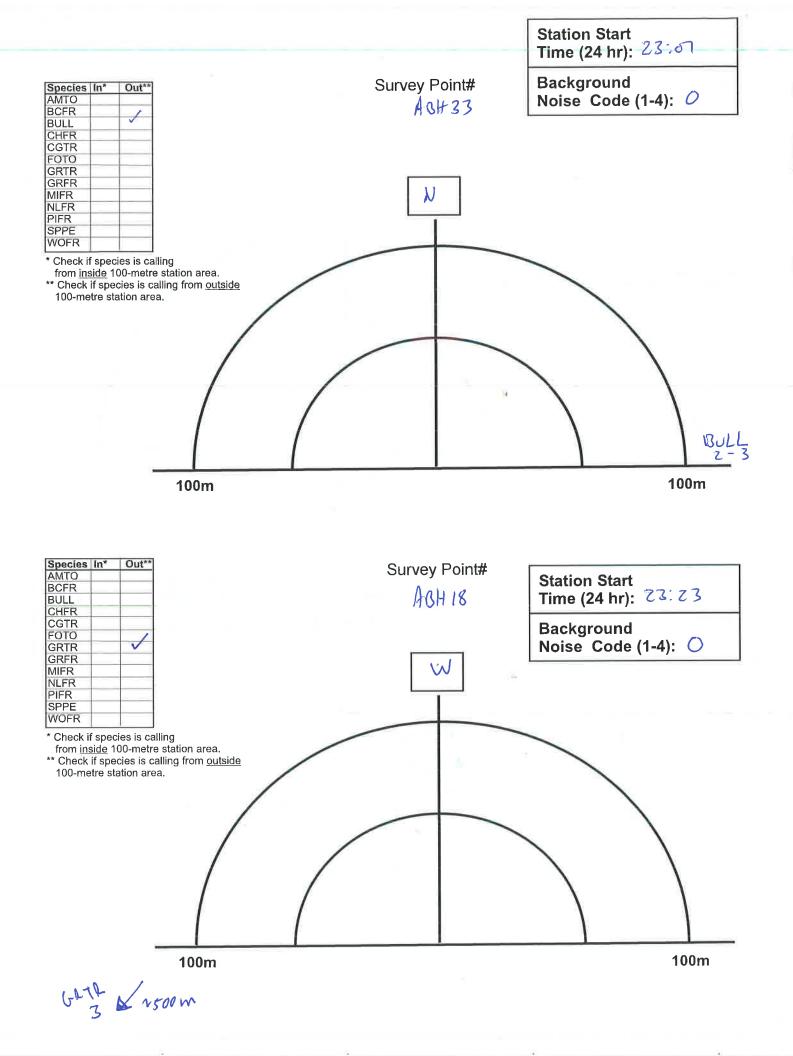
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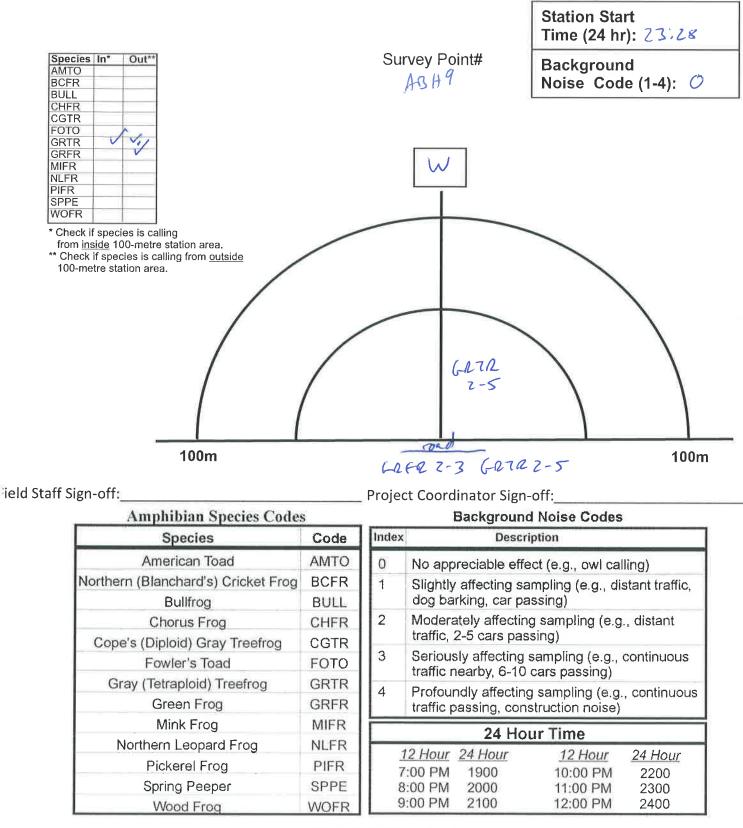






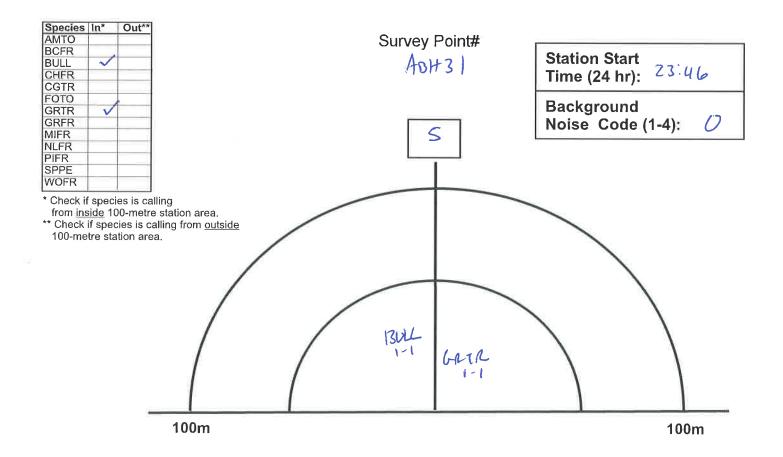


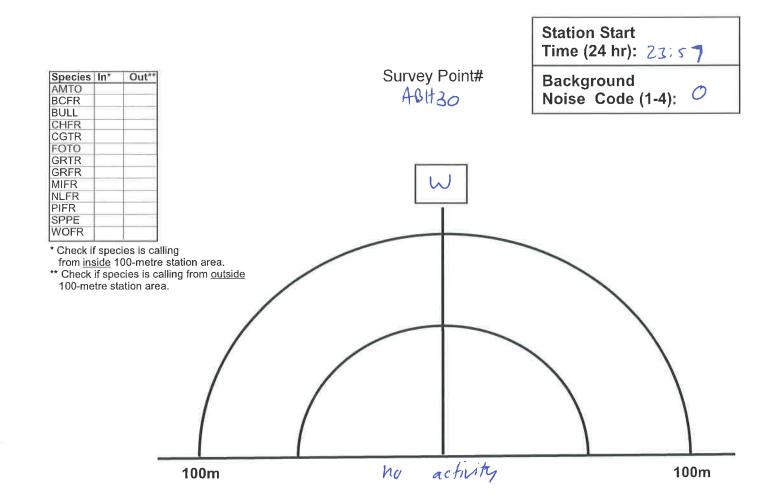




### **Beaufort Wind Scale**

Number	Wind Speed		Indicators		
	Km/h	Mph			
0	0-2	0-1	Calm, smoke rises vertically		
1	3-5	2-3	Light air movement, smoke drifts		
2	6-11	4-7	Slight breeze, wind felt on face		
3	12-19	8-12	Gentle breeze, leaves and small twigs in constant motion		
4*	20-30	13-18	Moderate breeze, small branches are moving, raises dust and loose paper		





ield Staff Sign-off:

Project Coordinator Sign-off:\_

Amphibian Species Code	Background Noise Codes				
Species	Code	Index	Index Description		
American Toad	AMTO	0	No appreciable effect (e.g., owl calling)		
Northern (Blanchard's) Cricket Frog	BCFR	1	Slightly affecting sampling (e.g., distant traffic,		
Bullfrog	BULL		dog barking, car pa	issing)	
Chorus Frog	CHFR	2	Moderately affecting sampling (e.g., distant traffic, 2-5 cars passing) Seriously affecting sampling (e.g., continuous traffic nearby, 6-10 cars passing)		
Cope's (Diploid) Gray Treefrog	CGTR	I			
Fowler's Toad	FOTO	3			
Gray (Tetraploid) Treefrog	GRTR	4	Profoundly affecting sampling (e.g., continuous		
Green Frog	GRFR		traffic passing, construction noise)		, continuous
Mink Frog	MIFR	24 Hour Time			
Northern Leopard Frog	NLFR			24 Hour	
Pickerel Frog	PIFR	7:00 PM 1900 10:00 PM		2200	
Spring Peeper	SPPE		3:00 PM 2000	11:00 PM	2300
Wood Frog	WOFR	[1] 11 전문방법 2. (TAT) 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		2400	

## **Beaufort Wind Scale**

Number	Wind Speed		Indicators		
	Km/h	Mph			
0	0-2	0-1	Calm, smoke rises vertically		
1	3-5	2-3	Light air movement, smoke drifts		
2	6-11	4-7	Slight breeze, wind felt on face		
3	12-19	8-12	Gentle breeze, leaves and small twigs in constant motion		
4*	20-30	13-18	Moderate breeze, small branches are moving, raises dust and loose paper		

Project#

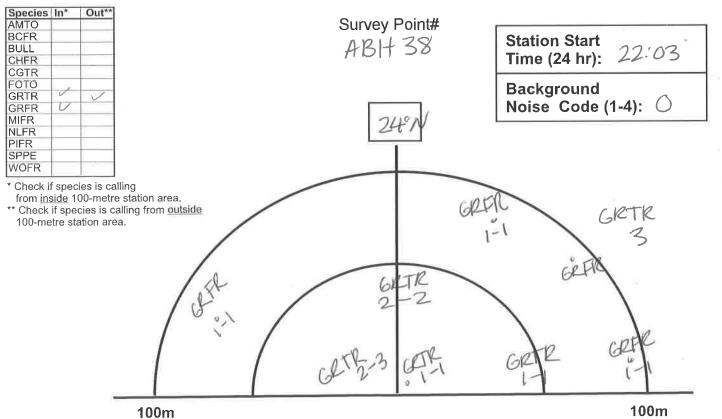
# Marsh Monitoring Program - Amphibian Data Form Return by 31 July Please write legibly (in pen).



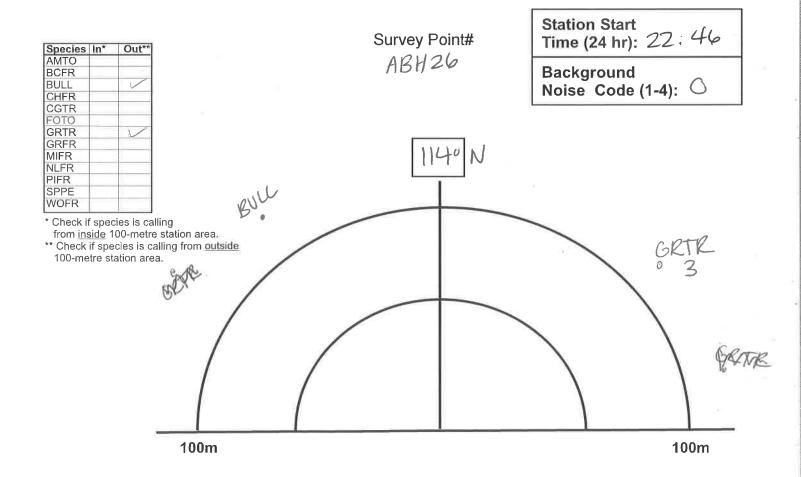
**VISIT INFORMATION** 

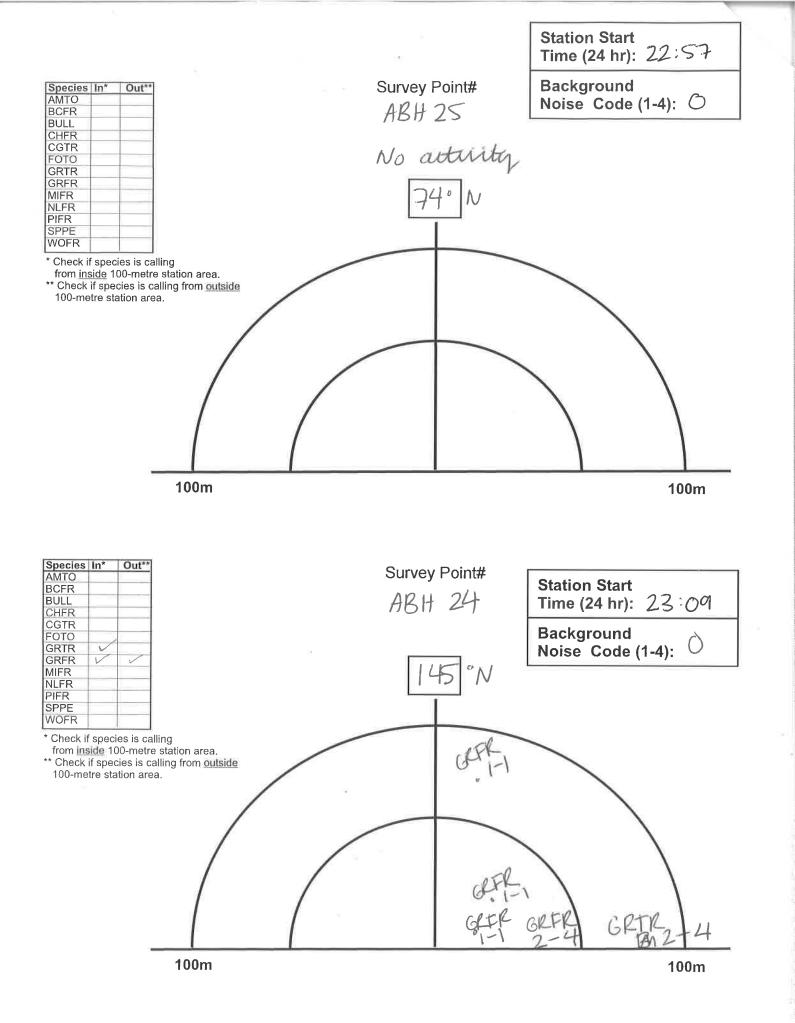
Route #: Route Name: Loyalist Station (A - H):
Observer #: Observer Name: Jonathan Harris/Kata Roper
Visit #: Day: Month: Year:6
Cloud Cover (10th): Temperature (°C or °F): 21 Beaufort Wind Scale (0-6):
Precipitation (check one): None/Dry O Damp/Haze/Fog O Drizzle O Rain
CALL LEVEL CODES
Code 1: Calls not simultaneous, number of individuals can be accurately counted
Code 2: Some calls simultaneous, number of individuals can be reliably estimated
Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

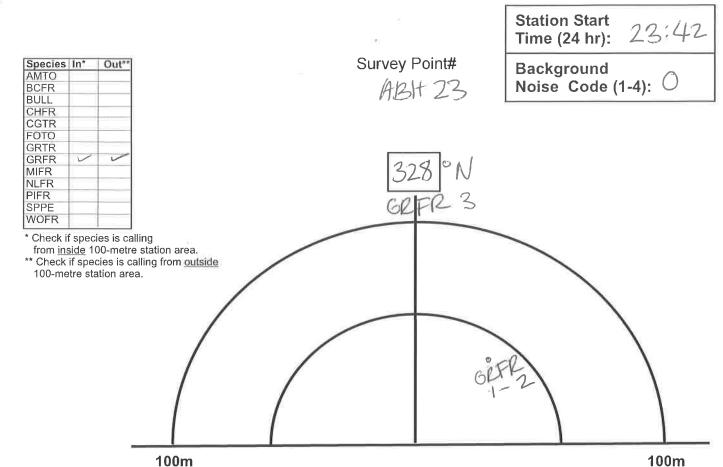
Amphdfrm2008.cdr, rev 02/2008



100m







100m

ield Staff Sign-off:

j,

\_ Project Coordinator Sign-off:\_

Amphibian Species Codes	Background Noise Codes					
Species	Code	Index	Index Description		ption	
American Toad	AMTO	0	No appi	reciable effe	ct (e.g., owl ca	lling)
Northern (Blanchard's) Cricket Frog	BCFR	1	Slightly affecting sampling (e.g., distant traffic, dog barking, car passing)			
Bullfrog	BULL					
Chorus Frog	CHFR	2	Moderately affecting sampling (e.g., distant			
Cope's (Diploid) Gray Treefrog	CGTR		traffic, 2-5 cars passing)			
Fowler's Toad	FOTO	3	3 Seriously affecting sampling (e.g., conti traffic nearby, 6-10 cars passing)			continuous
Gray (Tetraploid) Treefrog	GRTR	4			continuous	
Green Frog	Green Frog GRFR		4 Profoundly affecting sampling (e.g., continuous traffic passing, construction noise)			
Mink Frog MIFR				24 Hou	ur Time	
Northern Leopard Frog	NLFR		12 Hour	24 Hour		24 Hour
Pickerel Frog	PIFR			2200		
Spring Peeper	SPPE		:00 PM	2000	11:00 PM	2300
Wood Frog	WOFR	9	:00 PM	2100	12:00 PM	2400

# **Beaufort Wind Scale**

Number	Wind Speed		Indicators		
	Km/h	Mph			
0	0-2	0-1	Calm, smoke rises vertically		
1	3-5	2-3	Light air movement, smoke drifts		
2	6-11	4-7	Slight breeze, wind felt on face		
3	12-19	8-12	Gentle breeze, leaves and small twigs in constant motion		
4*	20-30	13-18	Moderate breeze, small branches are moving, raises dust and loose paper		

Conalis Malint JOB JOB DATE PAGE DATE BB' 120 calling @ 1037 10m same Rattie 48 44 CON 1100 NABBSH 7016 7 no Val CONI 2nd RN in Tamuarts 200 approx hor 10 no with (ON) TO point nacel 2014-7024 X lew over heading RD21 th RSh 2390 AMWD -CONI 10m chake cherry ind ~ 250m away lyng ver ederon -20m & mpag a Kattio mag to Red Ledan AMSN lei doing noria 12 What DOM 142 area wort 2048 - 2058 WISN corrected Au-- // gust 23, 2016 by DLC COGR 28 BARS 7 ENPW heard during cont Am Go :: Ind AMBI BOBO : EAME ~ 400m - 500m 1520 deer In Souther hedgen on som (ON) 300m NW P 326 a Thand ew win 20m of me i into AMW calling ada intold 61 201 EAD (BY.nen of EAK TROS MODO ovor TWKO Onl PARTY CHIEF WEATHER ..... WEATHER

May 26 JOB ... PAGE ..... 3/3 DATE Ewph 3 BOOM 103 C Znd 8 20m from BB549 AMWD > same ind thear 0 Ca unes. ( ar **BEEN OMITTED** FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE CHIE

Crepusular JOB Caralist - Crepuscula DATE May 30, 2016 PAGE 2/2 JOB LOYALIST DATE MAY 30, 2016 ..... PAGE ...... 3-21/3 CREPUSCU LAR: NAP BBS \$ 22 6 @ 24 FR 200 m D NAP120 2 13 temp start 2013 temp . 26 en 0/10 WV = 2010m NAP 02 WAL 2013 2023-2033 KBS19 O repuscular species des 70 BRS a peciesoby. a englute lom ( FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE **BEEN OMITTED** NAP 2053-2103 repuscular sp. obs PARTY CHIEF PARTY CHIEF ..... WEATHER ..... WEATHER .....

May 31 2016 PAGE / (KODI 20 4 385352804-2014 > no crepusular obs. sa bit too windy to hear > 300m but ohs. by sigh BRS39 7 202 AMWDS lewa er from 2 call > heer FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE

**BEEN OMITTED** 

WEATHER

PARTY CHIEF

DATE JUNE 0/ 2016 PAGE 1) Crepuparlan NAR038 4, 5, 6 BBSU4 >0835-0845 /1 2035-20-45 CONI > heard @184° ~ 200m > called 4x 11 then stopped RBSUS > 0850-0900 // 2050-2100 >no repuscular sp. chs BBSOB>900-910 // 2100-2110. Sno crep- Opservation PARTY CHIEF WEATHER

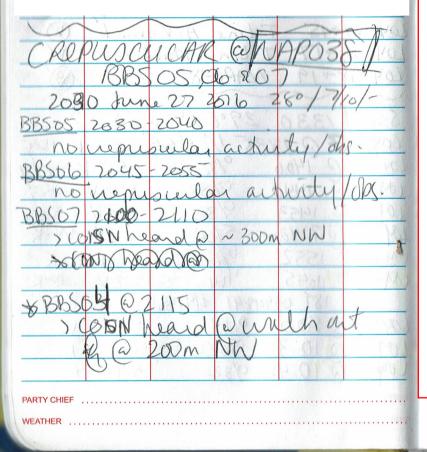
DATE JUNE 0/ 2016 PAGE 1) Crepuparlan NAR038 4, 5, 6 BBSU4 >0835-0845 /1 2035-20-45 CONI > heard @184° ~ 200m > called 4x 11 then stopped RBSUS > 0850-0900 // 2050-2100 >no repuscular sp. chs BBSOB>900-910 // 2100-2110. Sno crep- Opservation PARTY CHIEF WEATHER

JOB LOY	alist	2 2 010	ી હોવ	1/2	·····
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PARTY CHIEF					
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CREPUSCULAR BBS un temp: start 820 01 end: 8410 FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE **BEEN OMITTED** KKS3 O an PARTY CHIE NEATHER

JOB DATE PAGE NAPII/12/13:46,471,48 49.80,5 52,53,43,44,45,42,41 CREPUSCUAR 14. -72/7,48, 103/7/10 ,10 temp NAAPL KBS4 202B-203B > barn sunllaus shimm > no crepuscular species obs BBS48 2030 - 7040 > no crepiscular species ISBS49 8042-2052 COSN @ NNW ~ 200 m BBS44 2054-2104 >no repuscular spacies ob PARTY CHIE

JOE JOB DAT PAGE DATE epuscular 915 BBS82 905 ne 21 2016 PATO 1 2020 MANA NWC3 1/10/ GRGA U VIO AMGO mro FID CEDW YPWA ¥ BCCH FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE **BEEN OMITTED** Т BBS 54 2100-2110 Sno crepuscular of Anewed. 2110-2120 repuscular operies Sprived PARTY CHIEFO MODIA PA W WEATHER



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JOB . Aepusalar #Z hine 28 2016 PAGE NA 118/023 DATE 20= omsular 02 on in × 1AD 1a ON 5 n FIELD NOTES THAT ARE NO LONGER APPLICABLE TO THE PROJECT LOCATION OR CONTAIN NOTES ABOUT SPECIES AT RISK HAVE **BEEN OMITTED** PARTY CHIEF ..... WEATHER ....