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CONSULTING

LOYALIST SOLAR LP

Natural Heritage Assessment Site Investigation 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 name plate 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 I (“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 *Natural Heritage Assessment (“NHA”) Site Investigation 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 significance of identified natural features, potential impacts and the mitigation measures required to protect these features will be provided, as required, in the *NHA Evaluation of Significance* and *NHA Environmental Impact Study Reports*. 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.

Table 1: Checklist for Requirements under *Ontario Regulation 359/09*- NHA Site Investigation

Required Documentation	Location in Report
A site investigation in accordance with the Table in section 26 of <i>Ontario Regulation 359/09</i> was conducted, either by visiting the site or by an alternative investigation of the site, for the purpose of determining:	
(a) whether the results of the analysis summarized in the “records review” report are correct or require correction, and identifying any required corrections.	Table 11: <i>Summary of Amendments to the Records Review</i>
(b) whether any additional natural features exist, other than those that were identified in the “records review” report.	Table 11: <i>Summary of Amendments to the Records Review</i>
(c) the boundaries, located within 50 m of the Project Location, of any natural feature that was identified in the records review or the site investigation.	Figures 5-7W

Required Documentation	Location in Report
(d) the distance from the Project Location to the boundaries determined under clause (c).	Figures 5-7W
A report was prepared and submitted to the Ministry of Natural Resources and Forestry that sets out the following:	
(a) A summary of any corrections to the “records review” report and the determinations made as a result of conducting the site investigation.	Table 11: <i>Summary of Amendments to the Records Review</i>
(b) Information establishing the type of each natural feature identified in the records review and in the site investigation.	Section 7: <i>Site Investigation Results</i>
(c) A map showing: <ul style="list-style-type: none"> i. the boundaries located within 50 m of the Project Location, of any natural feature that was identified in the records review or the site investigation ii. the location and type of each natural feature identified in relation to the Project Location iii. the distance from the Project Location to the boundaries determined under clause 1 (d) above 	Figures 5- 7W
(d) A summary of methods used to make observations for the purposes of the site investigation.	Section 6: <i>Site Investigation Methodology</i>
(e) The name and qualifications of any person conducting the site investigation.	Section 6.5, <i>Name and Qualifications of Site Investigators</i>
(f) If investigation was conducted by visiting the site: <ul style="list-style-type: none"> i. The dates and times of the beginning and completion of the site investigation ii. The duration of the site investigation iii. The weather conditions during the site investigation iv. Field notes kept by the person conducting the site investigation 	Section 7.1: <i>Site Investigation Dates, Times, Duration, and Weather Conditions</i> Appendix A
(g) If an alternative investigation of the site was conducted: <ul style="list-style-type: none"> i. The dates of the generation of the data used in the site investigation ii. An explanation of why the person who conducted the alternative investigation determined that it was not reasonable to conduct the site investigation by visiting the site 	Section 7.1: <i>Site Investigation Dates, Times, Duration, and Weather Conditions</i> Section 7.1.1: <i>Access to Adjacent Lands</i> Appendix D: Figure D1



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

GENERAL PROJECT LOCATION

FIGURE 1



MAP CREATED BY: GM
MAP CHECKED BY: JP
DATA PROVIDED BY: MNR
MAP PROJECTION: NAD 1983 CSRS Ontario MNR Lambert



PROJECT: 163674 STATUS: DRAFT DATE: 6/24/2016

2.0 The Proponent

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

Full Name of Company:	<i>Loyalist Solar LP, c/o BluEarth Renewables Inc.</i>
Prime Contact:	<i>Tom Bird, Director, Regulatory</i>
Address:	<i>34 Harvard Road, Guelph, ON, N1G 4V8</i>
Telephone:	<i>1-844-214-2578</i>
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:	<i>Dillon Consulting Limited</i>
Prime Contact:	<i>Megan Bellamy, Project Manager</i>
Address:	<i>235 Yorkland Boulevard, Suite 800, Toronto, ON, M2J 4Y8</i>
Telephone:	<i>(416) 229-4646 ext. 2423</i>
Fax:	<i>(416) 229-4692</i>
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 and 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 2**). It has an approximate centroid at the following geographic coordinates:

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

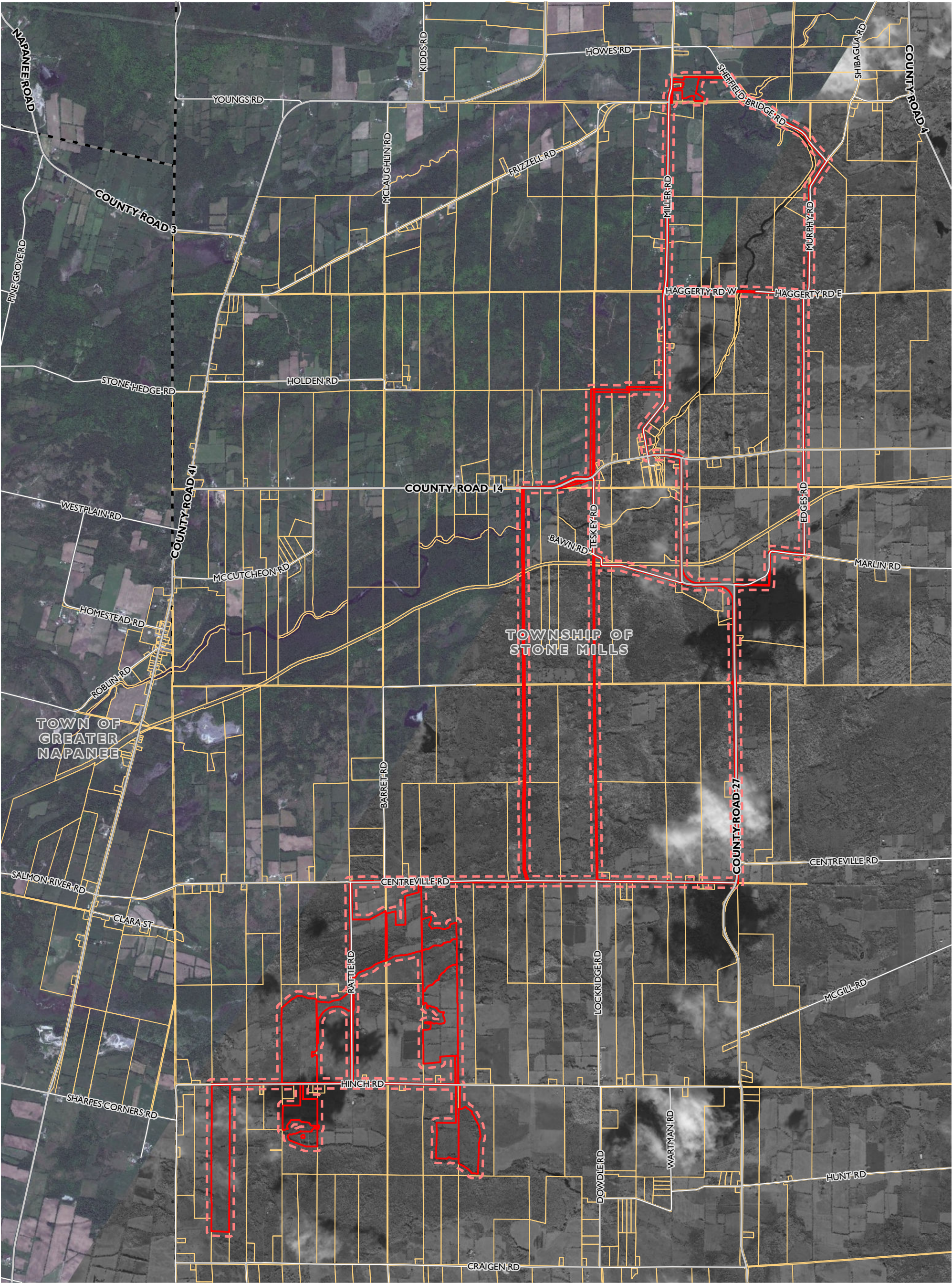
Figure 2 overviews the maximum extent of the Project Location for the purposes of this *NHA Site Investigation Report*. The term "Project Location" is defined in *Ontario Regulation 359/09* to be a part of land and all or part of any building or structure in, on or over which a person is engaging in 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 specific facility components making up the Project Location and their exact locations within the overall Project Location have yet to be determined. This information will be provided in the NHA Environmental Impact Study. 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 un-opened road right-of-ways, Hydro One Networks Inc. (HONI) right-of-way or on private lands. **Figure 2** overviews the potential connection line routes that are under consideration as part of this *NHA Site Investigation Report* to connect the Project to the provincial electricity grid.

Figure 2 also includes the 50 m setbacks 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).

For the purposes of this NHA Site Investigation, all potential options identified for the Project Location boundary have been included and considered. As the Project progresses and field investigations are concluded, the Project Location boundary will be refined for reasons that may include, but are not limited to, the avoidance of sensitive natural features determined to be present (e.g. wetlands) and/or to accommodate other regulatory requirements and/or stakeholders input. From a comparison of **Figure 2** in the *NHA Records Review Report* to **Figure 2** in the *NHA Site Investigation Report*, the Project Location has been refined to avoid wetlands delineated as part of the site investigation field studies.

As detailed design progresses and the Project Location boundary is further refined, each individual NHA report will include a Project Location boundary established on the constraints known at the time of report preparation. For the preparation of this NHA Site Investigation Report, the known constraints are based on the area of land available to the project for use, and wetland areas that are, or will be assumed to be for the purposes of this NHA, provincially significant.

The Project Location boundary to be included in the *NHA Environmental Impact Study Report* will reflect, at a minimum, the final Project Location boundary provided to the MOECC as part of the REA application. For clarity, the final Project Location boundary will be the version provided as part of the site plan submitted within the *Design and Operations Report* to the MOECC. The final Project Location boundary will be equal to, or have less total area, than what is included in the NHA reporting.



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PROJECT LOCATION
FIGURE 2

- Project Location Boundary (subject to refinement)
- 50 m Setback
- Parcel Boundary
- Municipal Boundary
- Railway



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



PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016

4.0 Results of Records Review

As shown on **Figure 3**, a records review was completed according to Section 25 of *Ontario Regulation 359/09*. A summary of the determinations made during the records review is outlined in **Table 2**. The conclusions of the *NHA Records Review Report* are based on the Project Location as identified in Figure 2 of that report.

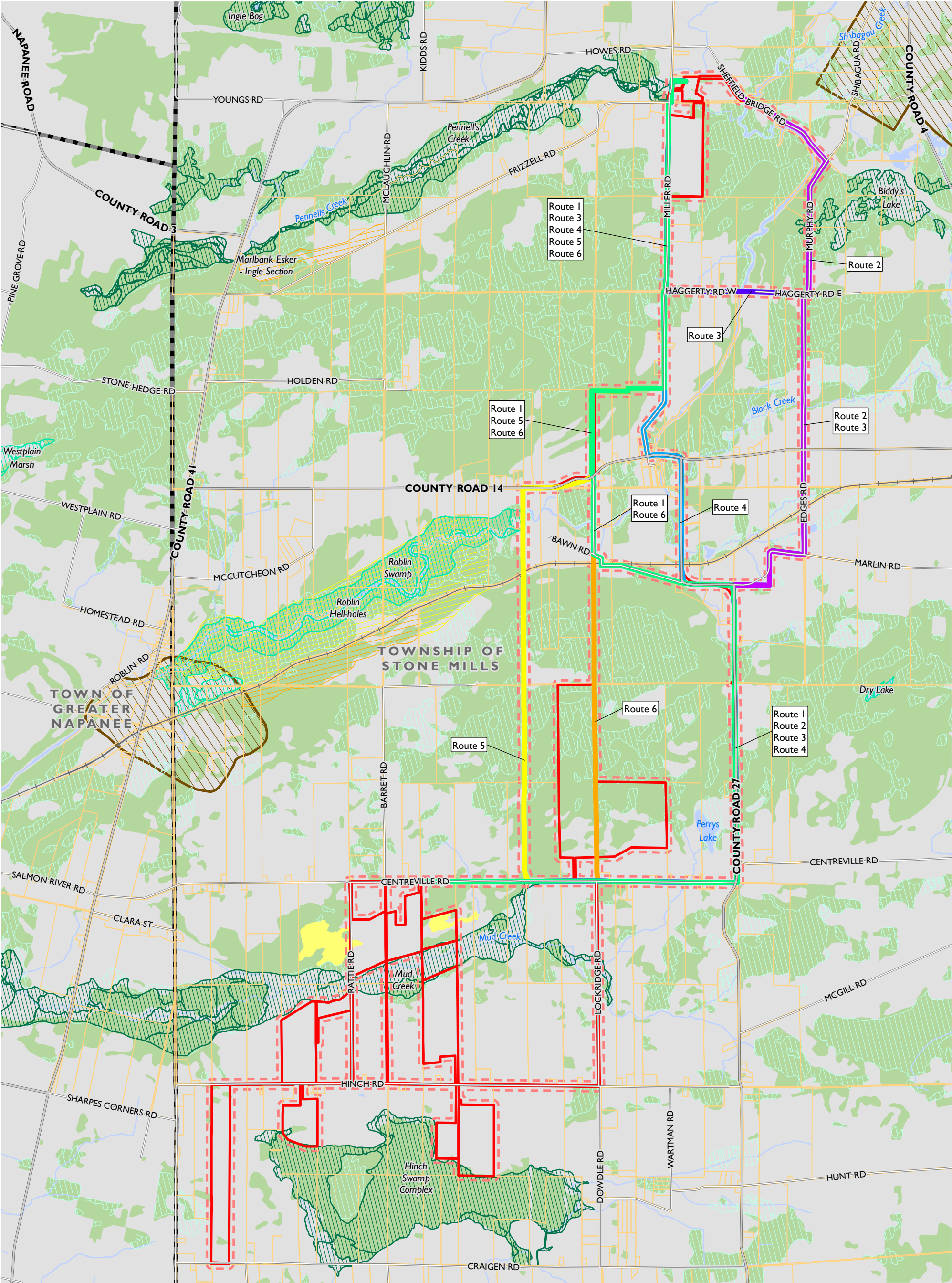
Table 2: Summary of Natural Heritage Assessment Records Review Determination

Natural Feature ID	Source of Information	Evaluation Status	Distance Relative to Project Location	Carried Forward to Site Investigation? Yes ("Y") or No ("N")
Provincial Parks and Conservation Reserves				
No known features identified within the Project Location or adjacent lands within 120 m.				N
ANSI, Life Science				
No known features identified within the Project Location or adjacent lands within 50 m.				N
ANSI, Earth Science				
No known features identified within the Project Location or adjacent lands within 50 m.				N
Wetlands				
Provincially Significant Wetlands	LIO Mapping	Provincially Significant	Two within the Project Location (Mud Creek and Hinch Swamp); two within 50 m of the Project Location (Pennell's Creek and Biddy's Lake).	Y
Evaluated Southern Wetlands	LIO Mapping	Not Provincially Significant	One within 50 m of the Project Location (Roblin Swamp).	Y
Unevaluated Southern Wetlands	LIO Mapping	Unevaluated	Several within the Project Location and within 50 m of the Project Location.	Y
Woodlands				
Unevaluated Southern Woodlands	LIO Mapping	Unevaluated	Several within the Project Location and within 50 m of the Project Location.	Y

Natural Feature ID	Source of Information	Evaluation Status	Distance Relative to Project Location	Carried Forward to Site Investigation? Yes ("Y") or No ("N")
Wildlife Habitat				
Seasonal Concentration Areas				
Waterfowl Stopover and Staging Areas (Terrestrial)				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Waterfowl Stopover and Staging Areas (Aquatic)				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Shorebird Migratory Stopover Areas				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Raptor Wintering Area				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Bat Hibernacula				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Bat Maternity Colonies				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Bat Migratory Stopover Areas				
There are no MNRF identified Bat Migratory Stopover Areas within 50 m.				N
Turtle Wintering Areas				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Snake Hibernaculum				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Colonially- Nesting Bird Breeding Habitat (Bank and Cliff)				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Colonially- Nesting Bird Breeding Habitat (Tree/ Shrubs)				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Colonially- Nesting Bird Breeding Habitat (Ground)				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Migratory Butterfly Stopover Areas				
The Project Location is not located within 5 km of Lake Ontario.				N
Landbird Migratory Stopover Areas				
The Project Location is not located within 5 km of Lake Ontario.				N

Natural Feature ID	Source of Information	Evaluation Status	Distance Relative to Project Location	Carried Forward to Site Investigation? Yes ("Y") or No ("N")
Deer Yarding Areas				
There are no Deer Yarding Areas (delineated by the MNRF) within the Project Location or adjacent lands within 50 m.				N
Deer Winter Congregation Areas				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Rare Vegetation Communities				
Cliffs and Talus Slopes				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Sand Barren				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Alvar				
Candidate Alvars	MNRF 2006	Unevaluated	Two within the Project Location and within 50 m of the Project Location.	Y
Old Growth Forest				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Savannah				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Tallgrass Prairie				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Other Rare Vegetation Communities				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Specialised Wildlife Habitat				
Waterfowl Nesting Area				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Bald Eagle and Osprey Nesting, Foraging and Perching Habitat				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Woodland Raptor Nesting Habitat				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Turtle Nesting Areas				
No known features identified within the Project Location or adjacent lands within 50 m.				Y

Natural Feature ID	Source of Information	Evaluation Status	Distance Relative to Project Location	Carried Forward to Site Investigation? Yes ("Y") or No ("N")
Seeps and Springs				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Amphibian Breeding Habitat (Woodland)				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Amphibian Breeding Habitat (Wetlands)				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Woodland Area- Sensitive Bird Breeding Habitat				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Habitat of Species of Conservation Concern				
Marsh Bird Breeding Habitat				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Open Country Breeding Bird Habitat				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Shrub/ Early Successional Bird Breeding Habitat				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Terrestrial Crayfish				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Special Concern and Rare Wildlife Species				
No known features identified within the Project Location or adjacent lands within 50 m; Species with the potential to occur in the general area are identified in Appendix C1 .				Y
Animal Movement Corridors				
Amphibian Movement Corridors				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Deer Movement Corridors				
No known features identified within the Project Location or adjacent lands within 50 m.				Y
Provincial Plan Areas				
None applicable to the Project Location or setback areas.				N



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NHA RECORDS REVIEW

FIGURE 3

Potential Connection Line Routes

Route 1

Route 2

Route 3

Route 4

Route 5

Route 6

Railway

Project Location Boundary (subject to refinement)

Parcel Boundary

50 m Setback

Municipal Boundary

Provincially Significant Wetland

Evaluated Wetland

Unevaluated Wetland

ANSI, Earth Science

ANSI, Life Science

Deer Wintering Area (Stratum 2)

Alvar Vegetation Community

Mapped Watercourse

Mapped Water Body

Woodland

MAP CREATED BY: GM

MAP CHECKED BY: JP

DATA PROVIDED BY: MNRF

MAP PROJECTION: NAD 1983 UTM Zone 18N

1:40,000

0 0.5 1 2 km

N

E

S

W

PROJECT: 163674

STATUS: DRAFT

DATE: 10/24/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Records Review\Figure 3 Records Review.mxd

5.0

Site Investigation Purpose

This site investigation was completed to analyze the accuracy of the determinations made in the records review. It is consistent with Section 26 of *Ontario Regulation 359/09*, which states that a person who proposes to engage in a [solar] renewable energy Project shall ensure that a physical investigation of the air, land and water within 50 m of the Project Location is conducted for the purpose of determining:

- Whether the results of the analysis summarized in the report prepared under subsection 25 (3) [*NHA Records Review Report*] are correct or require correction, and identifying any required corrections.
- Whether any additional natural features exist, other than those that were identified in the report prepared under subsection 25 (3) [*NHA Records Review Report*].
- The boundaries, located within 50 m of the Project Location, of any natural feature that was identified in the records review or the site investigation.
- The distance from the Project Location to the boundaries [of the natural feature].

Species at Risk listed under the federal *Species at Risk Act* and provincial *Endangered Species Act, 2007*, with the potential to interact with the Project Location and/or adjacent lands, are being considered in consultation with the appropriate regulatory agency. Reporting related to the protection of Species at Risk is being provided to the appropriate agency under separate cover.

6.0 Site Investigation Methodology

Based on analysis of the resources and records searched in the *NHA Records Review Report*, the determinations made with respect to natural features were the subject of multiple site investigations of the Project Location. These site investigations were also conducted to identify natural features not identified during the records review. Site investigations focused on those areas within the Project Location and surrounding 50 m.

Table 3 outlines the method and/or procedure followed in order to determine the presence, absence and/or extent of a natural feature in the Project Location or 50 m setback. An outline of these methods is provided in greater detail in **Sections 6.1 to 6.4**.

Table 3: Overview of Methods Employed During the Site Investigation of Natural Features

Feature	Source of Information/Data				
	Consultation/ Records Review	Ecological Land Classification	Wetland Delineation	Wildlife Habitat Mapping	Incidental Vegetation/ Wildlife Survey
Wetlands	✓	✓	✓	✓	
Woodlands	✓	✓		✓	
Wildlife Habitat	✓	✓	✓	✓	✓

6.1 Ecological Land Classification

During field investigations, vegetation was characterized using the Ecological Land Classification System ("ELC") for Southern Ontario (Lee et al. 1998). Where present, vegetation community boundaries were determined through the review of aerial photography, and then further refined through on-site field studies. Field studies involved identifying the dominant species for each vegetation cover type based on visual estimates of species abundances. The ELC system methodology recommends that a vegetation community be a minimum of 0.5 hectares in size before it is defined. For the purposes *NHA Site Investigation Report*, ELC was completed to Vegetation Type.

Vegetation communities have been mapped on aerial photography according to ELC nomenclature to graphically represent the specific spatial pattern in the vegetation cover according to species composition, physiognomy, and physical site characteristics. ELC communities have been reported in Second Approximation following guidance received from the MNRF as well as in First Approximation to allow for cross-referencing with the MNRF's Ecoregion 6E Criteria Schedule (MNRF 2015). ELC information was also used to identify treed communities. Areas of anthropogenic uses such as agriculture and urban land uses were also mapped to provide a complete account of existing conditions within the Project Location. Where site access was restricted, classification of vegetation communities was completed to the Ecosite level, using air photo interpretation and visual assessment using binoculars where possible.

Soil profiles for ELC involved the examination of hand auger soil profiles. This allowed for the description of soil texture and site moisture characteristics which influence plant distributions and the resulting vegetation communities. Other physical traits such as topography and slope aspect were also noted within each community.

In addition to the ELC classification, a late season vegetation survey of alvar communities was conducted in September and October of 2016 (**Table 5**). This survey was necessary in order to accurately delineate the boundaries of alvar communities based on fall flowering alvar indicator species as well as account for the native and non-native species composition and level of anthropogenic disturbance after the growing the season.

6.2 Wetland Boundary Delineation

Wetlands found within the Project Location and surrounding 50 m are required to be surveyed using protocols outlined in the Ontario Wetland Evaluation System (“OWES”) Southern Manual (MNRF 2014) and are to be carried out by a MNRF certified evaluator. 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). Applicable wetland boundaries within 50 m of the Project Location, or in close proximity to this setback, were delineated on accessible lands using the tracking function of a GPS unit. The wetland boundaries were delineated by following wetland indicator species and determining where vegetation consisted of 50 percent wetland species and 50 percent upland species in accordance with the Ontario Wetland Evaluation System Southern Manual (MNRF 2014). Wetlands were then classified according to the dominant vegetation form and substrate characteristics (i.e. organic/mineral).

6.3 Woodland Boundary Delineation

As detailed in the *NHA Records Review Report*, a search and analysis of the records and resources identified both unevaluated and evaluated woodlands in and within 50 m of the Project Location. The focus of the woodlands site investigation was to document the boundaries of woodland features identified during the records review and to determine if additional woodland features were present.

The woodland boundary was delineated along the edge of the drip-line. Woodlands that were separated by more than 20 m are considered separate woodlands. Woodland interior was determined by applying a 100 m buffer from the woodland edge and calculating the area. Information about the attributes and composition of the woodlands was interpreted from data collected and recorded in the field during ELC assessment.

6.4 Wildlife Habitat Identification Survey

The potential presence of wildlife habitat in the Project Location and adjacent lands, applicable to Ecoregion 6E, was assessed using the criteria outlined in Sections 4 – 7 and Appendix M, N, and Q of the Significant Wildlife Habitat Technical Guide (MNRF 2000) and the associated Ecoregion Criteria Schedule (MNRF 2015). This included further characterization of the Project Location and lands within 50 m for the presence of necessary habitat structure (e.g., tree cavities, stick nests, etc.) as well as habitat of appropriate size, shape and structure (e.g. interior forest) required for candidate significant wildlife to occur; as well as further investigation of ELC communities correlating to wildlife habitat listed in the Significant Wildlife Habitat 6E Ecoregion Criterion Schedule (MNRF 2015) to determine any candidate significant wildlife habitat. Criteria pertaining to each individual habitat type which were used in identification of candidate significant wildlife habitat are provided in **Table 9** in **Section 7.2.4**.

6.4.1 Incidental Wildlife Surveys

Incidental observations of vegetation, birds, herpetozoa, mammal and invertebrate species were recorded during field studies to assist in the identification of wildlife habitat within the Project Location and 50 m setback.

6.5 Name and Qualifications of Site Investigators

The names and qualifications of all site investigators are outlined in **Table 4** below. All site investigators listed below have been involved with the Project since the initiation of this work and/or have been involved in numerous renewable energy Projects that have received approval under O. Reg. 359/09.

Table 4: Names and Qualifications of Site Investigators

Name:	Dayna LeClair
Degrees and Professional Designations:	<ul style="list-style-type: none"> • M.Sc. University of Guelph, 2012 • B.Sc. (Hons), Trent University, 2010 • Fish and Wildlife Technology Advanced Diploma, 2008 • Fish and Wildlife Technician Diploma, 2007
Years of Experience:	6 years
Project Role:	<ul style="list-style-type: none"> • ELC • Wildlife and Wildlife Habitat Surveys • Incidental Wildlife Observations
Certifications:	Ecological Land Classification for Southern Ontario (2009)

Name:	Jonathan Harris
Degrees and Professional Designations:	<ul style="list-style-type: none"> • Fish and Wildlife Technician Diploma • Fish and Wildlife Technology Advanced Diploma • International Society of Arboriculture (ISA) Certified Arborist (member-Ontario Chapter) • Affiliated with Ontario Field Ornithologists, Ontario Invasive Plant Council, Ontario Field Botanists, Toronto Field Naturalists, and Ontario Nature
Years of Experience:	9 years (over 30 renewable Projects)
Project Role:	<ul style="list-style-type: none"> • ELC • Wildlife and Wildlife Habitat Surveys • Wetland Delineation • Incidental Wildlife Observations
Certifications:	<ul style="list-style-type: none"> • Ecological Land Classification for Southern Ontario (2011) • Ontario Wetland Evaluation System Certification (2012) • MNRF Bat Maternity Colony Training (2012) • Butternut Health Assessor Certification (2014)
Name:	Ryan Godfrey
Degrees and Professional Designations:	<ul style="list-style-type: none"> • B.Sc. University of British Columbia, 2010 • M.Sc. University of Toronto, 2014 • Affiliated with Field Botanists of Ontario, North American Native Plant Society
Years of Experience:	2 years
Project Role:	<ul style="list-style-type: none"> • Vegetation Assessments
Certifications:	n/a
Name:	Kelly McLean
Degrees and Professional Designations:	<ul style="list-style-type: none"> • M.Sc. Geography and Environmental Management • B.Sc. Environmental Biology and Technology
Years of Experience:	4 years
Project Role:	<ul style="list-style-type: none"> • Wildlife Habitat Surveys
Certifications:	<ul style="list-style-type: none"> • ROM Fish Identification certificate • Class 1 Electrofishing certification
Name:	Dale Kristenson
Degrees and Professional Designations:	<ul style="list-style-type: none"> • M.Sc., Queen's University, 1996 • B. Sc., University of Guelph, 1981
Years of Experience:	29 years
Project Role:	<ul style="list-style-type: none"> • Alvar Surveys
Certifications:	<ul style="list-style-type: none"> • Certified Butternut Health Advisor

7.0 Site Investigation Results

In addition to assessing if the results of the *NHA Records Review Report* were correct or required amendments, information relating to each natural feature identified within the Project Location and surrounding 50 m was collected, including the type, attributes, composition and function of the features. Site investigation information presented in the sections below describes the presence, absence or non-detection of natural features, species and habitat identified during the records review as well as the potential for additional natural features. Field notes from the site investigation work are included in **Appendix A**.

7.1 Site Investigation Dates, Times, Duration, and Weather Conditions

As outlined in **Table 5**, site investigations of the Project Location were undertaken over a period of approximately 5.5 months. The details of each site investigation completed in accordance with REA Section 26(3) are provided in **Table 5** and should be read concurrently with **Table 4**.

Table 5: Site Investigation Dates, Times, Duration and Weather Conditions

Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Weather Conditions (Field Observations)		Weather Conditions (EC* Station)		
					Air Temp. (°C)	Wind (Beaufort Scale)	Average Air Temp. (°C)	Wind (Speed (km/h) /Direction(bearing))	Precipitation (mm)
April 27	Bat Maternity Roost Survey; Incidental Observations; SWH^ characteristic observations	Jon Harris & Kelly McLean	16:00	4.0	12	0	3.2	21/39	0
May 11	Bat Maternity Roost Survey; Incidental Observations; SWH^ characteristic observations	Jonathan Harris & Dayna LeClair	12:00	3.0	18-22	1	10.3	NA/ <31	0
May 12	Bat Maternity Roost Survey; Incidental Observations; SWH^ characteristic observations	Jonathan Harris & Dayna LeClair	8:27	3.0	9-22	0	15.3	NA/ <31	0

Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Weather Conditions (Field Observations)		Weather Conditions (EC* Station)		
					Air Temp. (°C)	Wind (Beaufort Scale)	Average Air Temp.(°C)	Wind (Speed (km/h) /Direction(bearing))	Precipitation (mm)
June 13	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	9:24	6.0	15	2-4	16.3	8-28/ 18-32	0
June 14	ELC; Wetland Delineation; Incidental Observations; SWH^ characteristic observations	Jonathan Harris, Ryan Godfrey & Dayna LeClair	14:00	7.0	19	4	15	16-22/ 19-21	0
June 15	ELC; Wetland Delineation; Incidental Observations; SWH^ characteristic observations	Jonathan Harris, Ryan Godfrey & Dayna LeClair	15:00	4.0	20	1-2	16.8	2-8/ 14-20	0
June 16	ELC; Wetland Delineation; Incidental Observations; SWH^ characteristic observations	Jonathan Harris, Ryan Godfrey & Dayna LeClair	8:30	8.5	26	3-4	21.5	18-23/ 4-10	0
June 17	ELC; Wetland Delineation; Incidental Observations; SWH^ characteristic observations	Jonathan Harris & Dayna LeClair	8:00	7.0	23	2-3	20	7-18/ 16-21	0
June 20	ELC; Incidental Observations; SWH^ characteristic observations	Dayna LeClair	13:30	5.0	25	4	23.3	23-25/ 19	25.2

Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Weather Conditions (Field Observations)		Weather Conditions (EC* Station)		
					Air Temp. (°C)	Wind (Beaufort Scale)	Average Air Temp.(°C)	Wind (Speed (km/h) /Direction(bearing))	Precipitation (mm)
June 21	ELC; Wetland Delineation; Incidental Observations; SWH^ characteristic observations	Jonathan Harris, Ryan Godfrey & Dayna LeClair	9:00	7.5	22	3	17	18-22/ 25-27	2.2
June 22	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	7:47	7.0	19	3-4	17	14-23/ 28-32	0
June 23	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	10:00	5.5	18	3	16.8	10-18/ 17-23	0
June 24	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	9:14	6.5	20	2-3	17.8	7-17/ 16-19	0
June 27	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	10:00	6.5	21	3-4	24.8	17-21/ 18-19	0
June 28	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	9:30	6.0	23	3-4	21.8	10-23/ 19-35	6.6
June 29	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	16:30	3.5	22	3	20.3	8-12/ 24-31	2

Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Weather Conditions (Field Observations)		Weather Conditions (EC* Station)		
					Air Temp. (°C)	Wind (Beaufort Scale)	Average Air Temp.(°C)	Wind (Speed (km/h) /Direction(bearing))	Precipitation (mm)
Sept. 29	ELC – Alvars; Incidental Observations; SWH^ characteristic observations	Dayna LeClair & Ryan Godfrey	10:30	6.0	15	3	14.8	37/4	0.0
Sept. 30	ELC – Alvars; Incidental Observations; SWH^ characteristic observations	Dayna LeClair & Ryan Godfrey	7:30	6.0	12	2	14.3	<31/NA	0.0
October 4	ELC – Alvars; Incidental Observations; SWH^ characteristic observations	Jon Harris, Dayna LeClair, Ryan Godfrey, Dale Kristenson	10:30	5.0	10	1	13.8	<31/NA	0.0
Total Duration of Field Work (staff hours)				246.00					

*Closest Environment Canada (EC) Weather Station is in Kingston, Ontario. All EC Data refers to daily values; NA indicates the information was not available from an Environment Canada weather station from the date/time of field work. ^ Significant Wildlife Habitat (SWH) Characteristics as identified in the SWH Criteria Schedules for EcoRegion 6E (January 2015).

7.1.1 Alternative Site Investigations

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 nine 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 (**Appendix D; Figure D1**). 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. 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. Alternative Site Investigations mirrored survey dates for ELC as indicated in **Table 5**. This alternative site investigation was conducted in accordance with *Ontario Regulation 359/09*.

7.2 Natural Features

Based on the site investigation results, the presence of natural features is documented below. **Figure 4** displays the results of the ELC survey on and within 50 m of the Project Location and is the basis for determining the type of natural feature present and its boundaries. Field notes are attached in **Appendix A**.

7.2.1 Ecological Land Classification Results

A total of 70 natural and anthropogenic vegetation communities were observed within 50 m of the Project Location. The location, type and boundaries of the various vegetation communities located within the Project Location and surrounding 50 m are delineated in **Figure 4**. Where access was permitted and/or vegetation communities were able to be identified from aerial imagery, the extent of the vegetation community has been mapped beyond 50 m from the Project Location to inform mitigation measures that may form part of other reporting requirements (such as the *Construction Plan Report*). **Table 6** outlines the communities documented during the 2016 ELC surveys. The results of this work were used to further confirm the extent of natural features within the Project Location and surrounding 50 m.

Ecological Land Classification (Second Approximation)

2. Cultural Alvar

3. CVC_4: Extraction

4. CVL_1:Transportation (Rail)

5. CVR_4: Rural Residential Property

6. FOC: Coniferous Forest

7. FOCM2-1: Dry-fresh Red Cedar Coniferous Forest Type

8. FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite

9. FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type

10. FOCM4: Fresh-moist White Cedar Coniferous Forest Ecosite

11. FOC3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type

12. FODM3-1: Dry-Fresh Poplar Deciduous Forest Type

13. FODM4-2: Dry-Fresh White Ash-Hardwood Deciduous Forest Type

14. FODM4-4: Dry-Fresh Ironwood Deciduous Forest Type

15. FODM5-2: Dry-Fresh Sugar Maple-Beech Deciduous Forest Type

16. FODM5-4: Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type

17. FODM5-7: Dry-fresh Sugar Maple-Black Cherry Deciduous Forest Type

19. FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite

20. FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest

21. FODM7: Fresh - Moist Lowland Deciduous Forest

22. FODM8-1: Fresh-moist Poplar Deciduous Forest

23. FODM9: Fresh-moist Oak-Maple-Hickory Deciduous Forest

24. FODR2: Dry-Fresh Oak-Hardwood Non-calcareous Shallow Deciduous Forest Ecosite

25. FOMM2-3: Dry-Fresh White Pine-Hardwood Mixed Forest Type

26. FOMM4-3: Dry-Fresh White Cedar-Hardwood Mixed Forest Type

27. FOMM5-2: Dry-Fresh Poplar Mixed Forest Type

28. MAM: Meadow Marsh

30. MAMM1-2: Cattail Graminoid Mineral Meadow Marsh Type

31. MAMM1-3: Reed Canary Grass Mineral Meadow Marsh

32. MAMM1-9: Narrow-leaved Sedge Graminoid Mineral Meadow Marsh

33. MAMM3: Mixed Mineral Meadow Marsh

34. MAMO1-2: Cattail Graminoid Organic Meadow Marsh

35. MAMO1-3: Reed Canary Grass Graminoid Organic Meadow Marsh

36. MAMR3: Bedrock Meadow Marsh

37. MASO1-1: Cattail Organic Shallow Marsh

38. MEFM4: Fresh-moist Forb Meadow

39. MEGM4: Fresh-moist Graminoid Meadow

40. MEMM3: Dry-Fresh Mixed Meadow Ecosite

41. MEMM4: Fresh-moist Mixed Meadow Ecosite

42. MEMR2: Dry-fresh Non-calcareous Bedrock Mixed Meadow Ecosite

43. OAGM1: Annual Cover Crop
44. OAGM2: Perennial Cover Crop

45. OAGM4: Open Pasture

46. OAO: Open Aquatic Area

47. RBOA1-1: Dry Lichen-Moss Open Alvar Pavement Type

49. RB5A1-1: Common Juniper Shrub Alvar Type

50. RB5A1: Alvar Shrub Rock Barren Ecosite

51. RBTA1-7: Red Cedar Alvar Woodland Type

52. RBTB1-1: Red Cedar Calcareous Treed Rock Barren Type

53. SWCO1-1: White Cedar Organic Coniferous Swamp

54. SWD: Deciduous Swamp

55. SWDM2-1: Black Ash Mineral Deciduous Swamp

56. SWDM2-2: Green Ash Mineral Deciduous Swamp

57. SWDM3-3: Swamp Maple Mineral Deciduous Swamp

58. SWDM4-5: Poplar Mineral Deciduous Swamp

59. SWDM4: Mineral Deciduous Swamp Ecosite

60. SWDO2-3: Swamp Maple Organic Deciduous Swamp

61. SWTM3: Willow Mineral Deciduous Thicket Swamp

62. SWTO2: Willow Organic Deciduous Thicket Swamp

63. SWTO5: Organic Deciduous Thicket Swamp

64. TAGM1: Coniferous Plantation

65. TAGM4: Treed Pasture

66. TAGM5: Hedgerow

67. THCM1-1: Dry - Fresh Red Cedar Coniferous Thicket

68. THDM2-7: Prickly Ash Deciduous Shrub Thicket Type

69. THDM2: Dry-fresh Deciduous Shrub Thicket Ecosite

70. THDM5-1: Gray Dogwood Deciduous Thicket

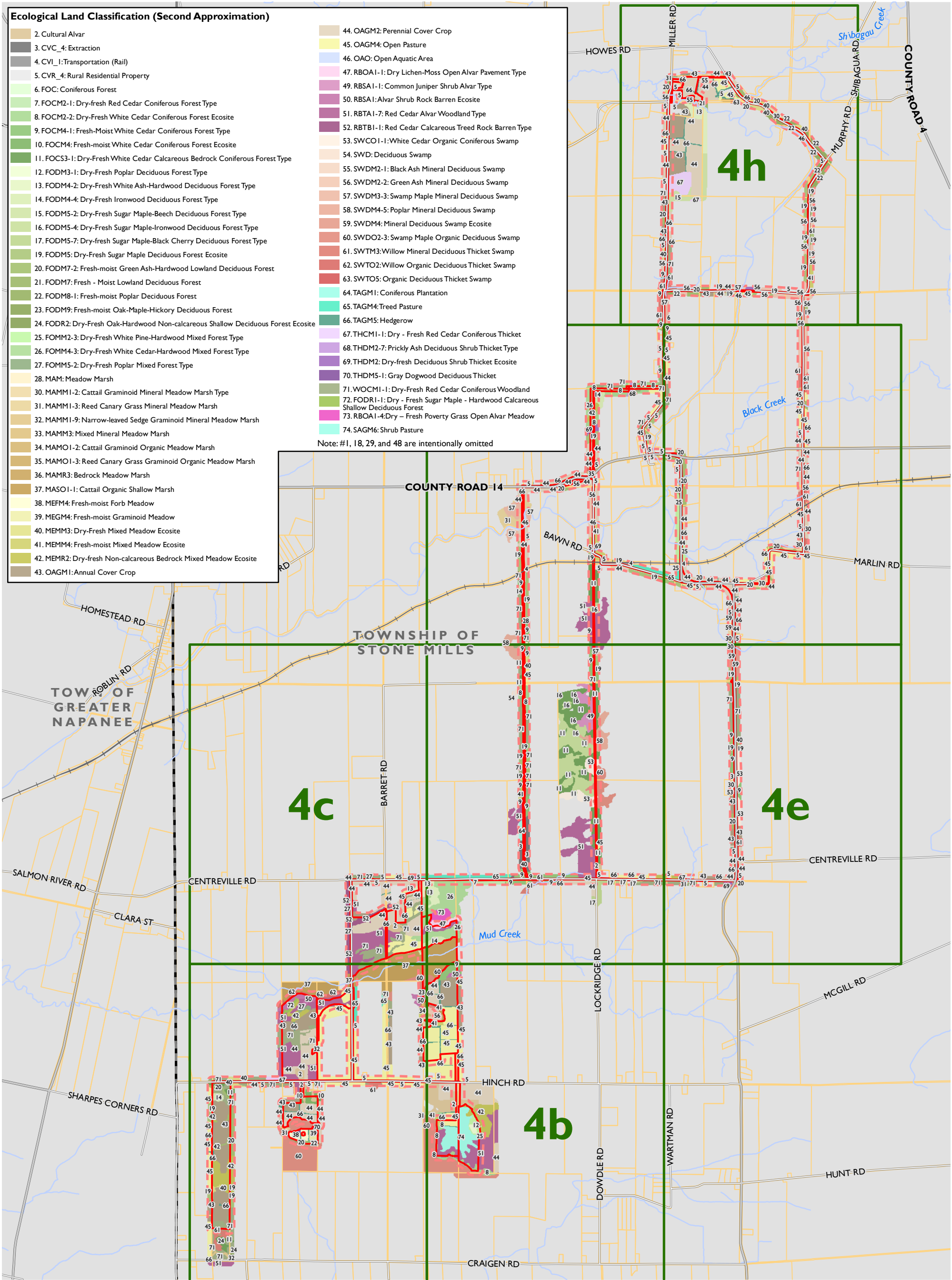
71. WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland

72. FODR1-1: Dry - Fresh Sugar Maple - Hardwood Calcareous Shallow Deciduous Forest

73. RBOA1-4: Dry – Fresh Poverty Grass Open Alvar Meadow

74. SAGM6: Shrub Pasture

Note: #1, 18, 29, and 48 are intentionally omitted



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

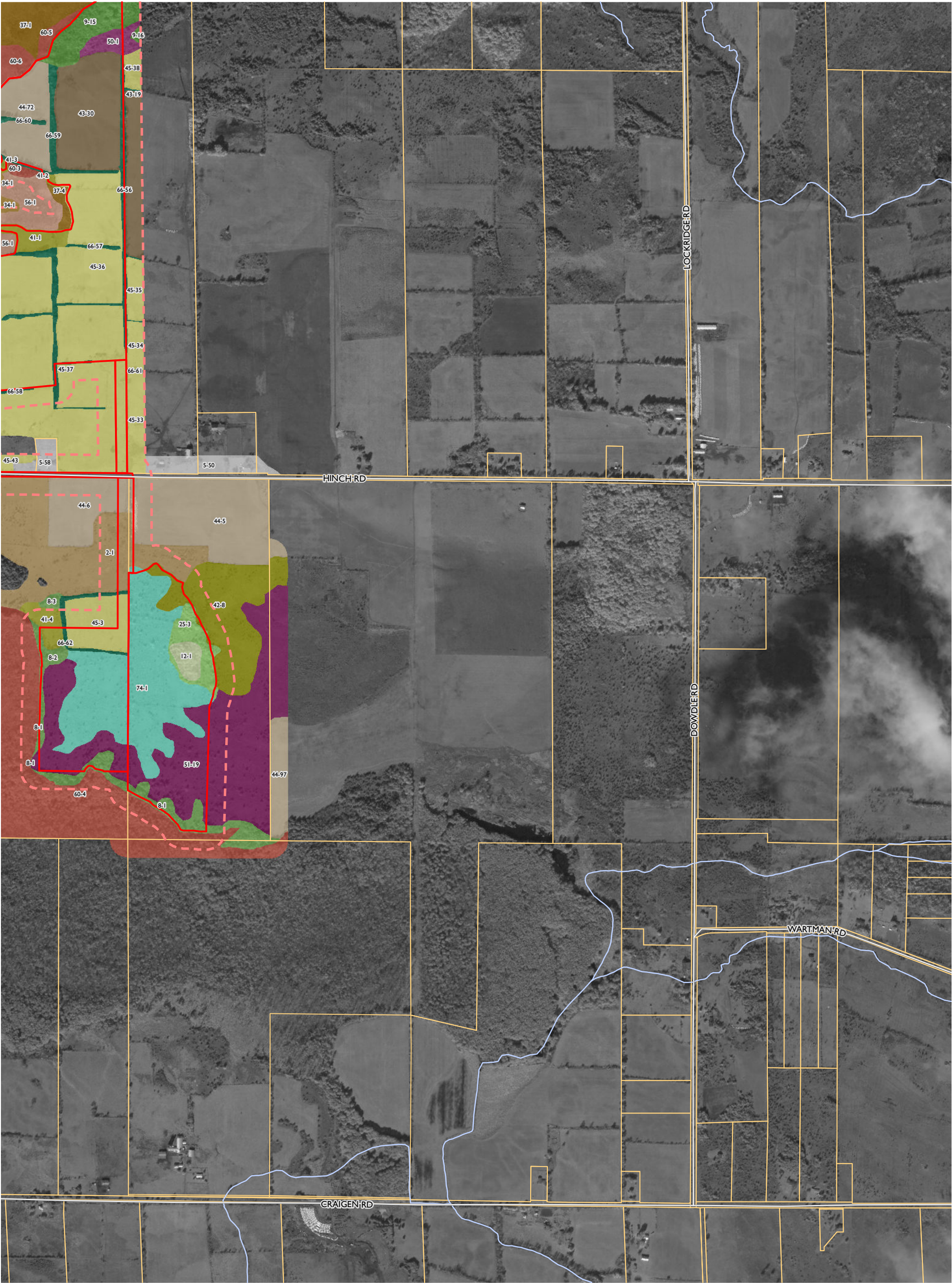
ECOLOGICAL
LAND CLASSIFICATION
FIGURE 4

- Railway
- Mapped Watercourse
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Municipal Boundary
- Parcel Boundary



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

PROJECT: 163674 STATUS: DRAFT DATE: 10/25/2016



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

Ecological Land Classification

FIGURE 4b

Railway

Mapped Watercourse

Project Location Boundary (subject to refinement)

50 m Setback

Parcel

32-2

Unique ELC Polygon Identifier

ELC Type (see Legend on Figure 4)

4h

4f

4g

4c

4d

4e

4a

4b

DILLON

CONSULTING

MAP CREATED BY: GM

MAP CHECKED BY: JP

MAP PROJECTION: NAD 1983 UTM Zone 18N

1:10,000

0

50

100

200 m

W

N

E

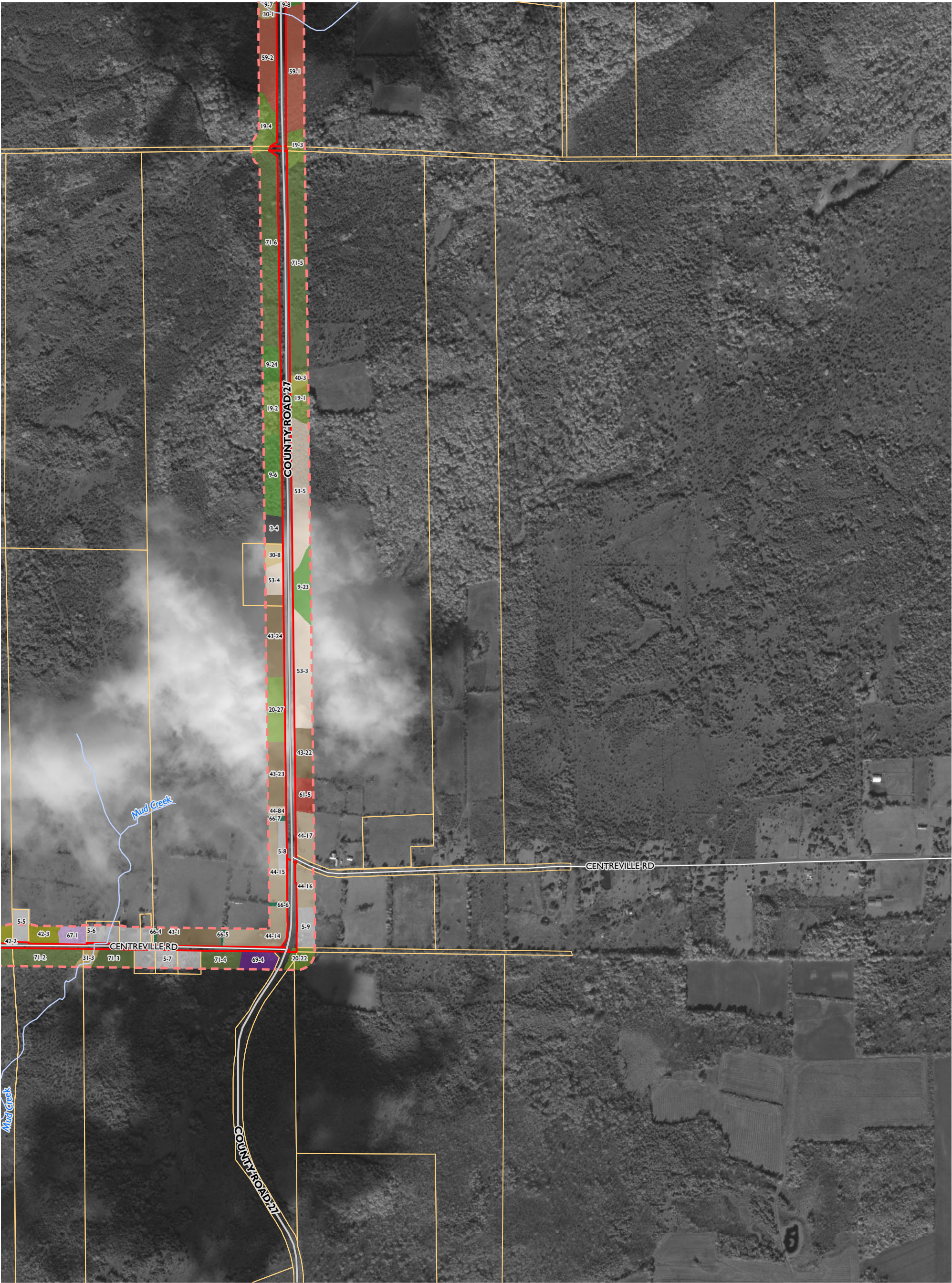
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PROJECT: 163674

STATUS: DRAFT

DATE: 10/25/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxhSite Investigation\Figure 4 Ecological Land Classification.mxd



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

Ecological Land Classification

FIGURE 4e

Railway

Mapped Watercourse

Project Location Boundary (subject to refinement)

50 m Setback

Parcel

32-2

ELC Type (see Legend on Figure 4)

Unique ELC Polygon Identifier

4h

4f

4g

4c

4d

4e

4a

4b

0

50

100

200 m

1:10,000

W

N

S

E

MAP CREATED BY: GM

MAP CHECKED BY: JP

MAP PROJECTION: NAD 1983 UTM Zone 18N

PROJECT: 163674

STATUS: DRAFT

DATE: 10/25/2016

DILLON

CONSULTING

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 4 Ecological Land Classification.mxd

Table 6: Ecological Land Classification

First Approximation		Second Approximation		Soils*	Identifier on Figure 4^	Vegetation~
ELC Code	Classification	ELC Code	Classification			
N/A	N/A	N/A	Cultural Alvar	Silty Loam; Moisture = 0	2	Vegetation associated with this cultural community is similar to that listed for Red Cedar Alvar Woodland Type but is severely degraded by cattle. Vegetation is strongly dominated by non-native species, grazed vegetation, significant rutting and hummocks, however a few alvar indicators were evident; Philadelphia panicgrass (<i>Panicum philadelphicum</i>), False pennyroyal (<i>Trichostema brachiatum</i>), Flat-stemmed Spikerush (<i>Eleocharis compressa</i>) and Prairie Smoke (<i>Geum triflorum</i>). (photo not available).
N/A	N/A	CVC_4	Extraction	N/A	3	Active quarry and cleared land as part of aggregate extraction observed within the Project Location (photo not available)
N/A	N/A	CVI_1	Transportation (Rail)	N/A	4	This cultural community consists of the right-of-way associated with the Canadian Pacific Railway line running between Toronto and Montreal. Vegetation associated with community is primarily meadow species reported later in this table (photo not available).
N/A	N/A	CVR_4	Rural Residential Property	N/A	5	Vegetation associated with this cultural community is generally comprised of mown cool season turf grasses and ornamental garden species (photo not available).
N/A	N/A	FOC	Coniferous Forest	N/A	6	In 50 m setback south of NAP161 but not visible from road. Interpreted from aerial imagery. Appears to be dominated by Eastern White Cedar (<i>Thuja occidentalis</i>). See Photo 1 in Appendix B .
FOC2-1	Dry-fresh Red Cedar Coniferous Forest Type	FOCM2-1	Dry-fresh Red Cedar Coniferous Forest Type	N/A	7	In 50 m setback of Centreville Road, west of route 5. Dominated by mature Red Cedar at a density of >60% coverage. See Photo 2 in Appendix B .
FOC2-2	Dry – Fresh White Cedar Coniferous Forest Type	FOCM2-2	Dry – Fresh White Cedar Coniferous Forest Type	Silty Loam; Moisture = 0	8	This coniferous forest community is dominated by Eastern White Cedar, with occasional occurrences of White Ash (<i>Fraxinus americana</i>) and White Spruce (<i>Picea glauca</i>) and rare occurrences of American Elm (<i>Ulmus americana</i>), Bur Oak (<i>Quercus macrocarpa</i>) and Trembling Aspen (<i>Populus tremuloides</i>). The shrub layer is dominated by Common Buckthorn (<i>Rhamnus cathartica</i>) and Northern Prickly Ash (<i>Zanthoxylum americanum</i>) with occasional occurrences of Eastern White Cedar. Rare occurrences of American Elm, Russian Olive (<i>Elaeagnus angustifolia</i>) and Bur Oak are also present, among others. Herbaceous species present include Poison Ivy (<i>Toxicodendron rydbergii</i>), Virginia Creeper (<i>Parthenocissus quinquefolia</i>), Wood Fern species (“sp.”), Grass sp., Prickly Gooseberry (<i>Ribes cynosbati</i>) with rare occurrences of False Solomon’s Seal (<i>Maianthemum racemosum</i>), Oxeye Daisy (<i>Leucanthemum vulgare</i>), Herb-robert (<i>Geranium robertianum</i>) and Philadelphia Fleabane (<i>Erigeron philadelphicus</i>). See Photo 3 in Appendix B .
FOC4-1	Fresh – Moist White Cedar Coniferous Forest Type	FOCM4-1	Fresh – Moist White Cedar Coniferous Forest Type	N/A	9	This coniferous forest community is dominated by Eastern White Cedar with rare occurrences of Paper Birch (<i>Betula papyrifera</i>), American Elm and Sugar Maple (<i>Acer saccharum</i>). The shrub layer is dominated by Common Buckthorn and Northern Prickly Ash. Rare occurrences of Ironwood (<i>Ostrya virginiana</i>), Prickly Gooseberry and Common Elderberry (<i>Sambucus canadensis</i>) are also present, among others. Herbaceous species present include Poison Ivy, Herb-robert, Wood Fern species, European Swallow-wort (<i>Cynanchum rossicum</i>), Virginia Creeper, Bloodroot (<i>Sanguinaria canadensis</i>), White Trillium (<i>Trillium grandiflorum</i>), Goldthread (<i>Coptis trifolia</i>), and Common Burdock (<i>Arctium minus</i>). See Photo 4 in Appendix B .
FOC4	Fresh – Moist White Cedar Coniferous Forest Ecosite	FOCM4	Fresh – Moist White Cedar Coniferous Forest Ecosite	Silty Clay; Moisture = 4	10	This coniferous forest community is dominated by Eastern White Cedar with Eastern Red Cedar (<i>Juniperus virginiana</i>) associates. The shrub layer consists of Ground Juniper (<i>Juniperus communis</i>) and Gray Dogwood (<i>Cornus racemosa</i>). Herbaceous species present include Garden Bird’s-foot Trefoil (<i>Lotus corniculatus</i>), Red Clover (<i>Trifolium pratense</i>), Wild Carrot (<i>Daucus carota</i>), Aster species, Sedge species (<i>Carex</i> sp.), Tall Yellow Hawkweed (<i>Hieracium praealtum</i>), Orange Hawkweed (<i>Hieracium aurantiacum</i>), Poison Ivy, and Oxeye Daisy. See Photo 5 in Appendix B .

First Approximation		Second Approximation		Soils*	Identifier on Figure 4^	Vegetation~
ELC Code	Classification	ELC Code	Classification			
FOC2-2	Dry – Fresh White Cedar Coniferous Forest Type	FOCS3-1	Dry – Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	Sandy Clay Moisture = 0	11	This coniferous forest community is dominated by Eastern White Cedar, with rare occurrences of Black Cherry (<i>Prunus serotina</i>), White Spruce and Sugar Maple. The shrub layer is dominated by Northern Prickly Ash. Occasional occurrences of Eastern Hemlock (<i>Tsuga canadensis</i>), Ironwood, and Basswood (<i>Tilia americana</i>) are present, along with rare occurrences of Wild Black Currant (<i>Ribes americanum</i>) and Common Red Raspberry (<i>Rubus idaeus</i> spp. <i>idaeus</i>). Herbaceous species present include Herb-robert, Violet sp. (<i>Viola</i> sp.), Virginia Creeper, and Wild Sarsaparilla (<i>Aralia nudicaulis</i>). Other species present include False Soloman’s Seal, Poison Ivy, Eastern Helleborine (<i>Epipactis helleborine</i>), Rattlesnake Fern (<i>Botrypus virginianus</i>), Eastern Rose Twisted-stalk (<i>Streptopus lanceolatus</i> var. <i>lanceolatus</i>) and Wood sorrel species (<i>Oxalis</i> sp.) See Photo 6 in Appendix B .
FOD3-1	Dry – Fresh Poplar Deciduous Forest Type	FODM3-1	Dry – Fresh Poplar Deciduous Forest Type	Sandy Clay Loam; Moisture = 0	12	This deciduous forest community is dominated by Trembling Aspen with White Ash associates. Rare occurrences of Black Cherry, Basswood, and Bur Oak are also present, among others. The shrub layer is dominated by Common Buckthorn and Northern Prickly Ash, with occasional occurrences of American Elm and Speckled Alder (<i>Alnus incana</i>). Herbaceous species present include Grass sp., Aster sp., Woodland Strawberry (<i>Fragaria vesca</i>), Tall Yellow Hawkweed, and Poison Ivy. See Photo 7 in Appendix B .
N/A	N/A	FODM4-2	Dry – Fresh White Ash – Hardwood Deciduous Forest Type	Silty Clay; Moisture = Dry	13	This deciduous forest community is dominated by White Ash with occasional occurrences of American Elm, Eastern White Cedar, Sugar Maple, along with rare occurrences of Basswood. The shrub layer is dominated by Gray Dogwood, White Ash and Common Buckthorn with occasional occurrences of Northern Prickly Ash, Alternate-leaved Dogwood (<i>Cornus alternifolia</i>), and Manitoba Maple (<i>Acer negundo</i>). Herbaceous species present include Virginia Waterleaf (<i>Hydrophyllum virginianum</i>), Virginia Creeper, Common Burdock, Herb-robert, Zigzag Goldenrod (<i>Solidago flexicaulis</i>), Rough Galium (<i>Galium asprellum</i>), Aster sp. and Sedge sp.
N/A	N/A	FODM4-4	Dry-Fresh Ironwood Deciduous Forest Type	Clay; Moisture = 0	14	This deciduous community is dominated by Ironwood, with occasional occurrences of Green Ash (<i>Fraxinus pennsylvanica</i>), Shagbark Hickory (<i>Carya ovata</i>), American Elm, Sugar Maple and White Ash. The shrub layer consists of Wild Black Currant and Common Buckthorn. Herbaceous species present include Herb Robert, Yellow Avens (<i>Geum aleppicum</i>), Common Burdock, Broad-leaved Enchanter's Nightshade (<i>Circaea canadensis</i>), Agrimony sp. See Photo 8 in Appendix B .
FOD5-2	Dry – Fresh Sugar Maple – Beech Deciduous Forest Type	FODM5-2	Dry – Fresh Sugar Maple – Beech Deciduous Forest Type	Medium Sandy Clay Loam; Moisture = Dry	15	This deciduous forest community is dominated by Sugar Maple and Black Maple (<i>Acer nigrum</i>), with abundant occurrences of American Beech (<i>Fagus grandifolia</i>) and occasional occurrence of Ironwood, Basswood, and Blue-beech (<i>Carpinus caroliniana</i>). The shrub layer is dominated by Northern Prickly Ash with abundant occurrences of Gray Dogwood. Herbaceous species present include Bloodroot, Herb-robert and White Baneberry (<i>Actaea pachypoda</i>) (photo not available).
FOD5-4	Dry – Fresh Sugar Maple – Ironwood Deciduous Forest Type	FODM5-4	Dry – Fresh Sugar Maple – Ironwood Deciduous Forest Type	Silty Loam; Moisture = 0	16	This deciduous forest community is dominated by Sugar Maple with abundant occurrences of Ironwood. Occasional occurrences of Red Oak (<i>Quercus rubra</i>), White Ash, and Bitternut Hickory (<i>Carya cordiformis</i>) are also present among others. Additionally, rare occurrences of Black Ash, Eastern Hemlock, Basswood and American Elm are present. The shrub layer consists of Common Buckthorn, Northern Prickly Ash and Ground Juniper. Herbaceous species present include Naked Bishop's-cap (<i>Mitella nuda</i>), Wild Sarsaparilla, Virginia Creeper, Round-lobed Hepatica (<i>Anemone americana</i>), Aster sp., Sedge sp., and Blue-stemmed Goldenrod (<i>Solidago caesia</i>) (photo not available).
FOD5-7	Dry-fresh Sugar Maple-Black Cherry Deciduous Forest	FODM5-7	Dry-fresh Sugar Maple-Black Cherry Deciduous Forest	N/A	17	In 50 m setback from a collection line route off Lockbridge Road. Dense shrubs along the edge of the community made it difficult to assess from the road. Community canopy appeared to be dominated by Sugar Maple and Black Cherry. See Photo 9 in Appendix B .

First Approximation		Second Approximation		Soils*	Identifier on Figure 4^	Vegetation~
ELC Code	Classification	ELC Code	Classification			
FOD1	Dry – Fresh Oak Deciduous Forest Ecosite	FODM5	Dry – Fresh Sugar Maple Deciduous Forest Ecosite	Silty Clay Loam; Moisture = 2	19	<p>This deciduous community is dominated by Sugar Maple with abundant occurrences of White Pine and occasional White Ash associates. The shrub layer consists of White Pine, Eastern White Cedar, American Elm and Eastern Hemlock. The ground layer is heavily grazed with few species present; including Bloodroot, Grass sp., Sugar Maple and Hickory saplings. See Photo 10 in Appendix B.</p>
FOD7-2	Fresh – Moist Ash Lowland Deciduous Forest Type	FODM7-2	Fresh – Moist Green Ash-Hardwood Lowland Deciduous Forest Type	Clay; Moisture = 0	20	<p>This deciduous forest community is dominated by Green Ash, with occasional occurrences of Bitternut Hickory, Shagbark Hickory, and White Ash. The shrub layer is dominated by Common Buckthorn, with occasional occurrences of Bur Oak, Eastern Red Cedar, Common Lilac (<i>Syringa vulgaris</i>) and Northern Prickly Ash. Rare species include Alternate-leaved Dogwood and Manitoba Maple. Herbaceous species present include Virginia Creeper, Broad-leaved Enchanters Nightshade (<i>Circaea canadensis</i>), Wild Black Currant, Orchard Grass (<i>Dactylis glomerata</i>), Yellow Avens, and Poison Ivy. See Photo 11 in Appendix B.</p>
FOD7	Fresh – Moist Lowland Deciduous Forest Ecosite	FODM7	Fresh – Moist Lowland Deciduous Forest Ecosite	Sandy Loam; Moisture = 2	21	<p>This deciduous forest community consists of Bitternut Hickory, Black Walnut and American Elm with White Ash and Basswood associates. The shrub layer consists of predominantly vines Virginia Creeper and Wild Grape. Occasional occurrences of Alternative-leaved Dogwood, Northern Prickly Ash and Gray Dogwood exist. Herbaceous species include Sensitive Fern, Zigzag Goldenrod, Carex sp., American Gooseberry, Galium sp., Herb-robert and Poison Ivy. See Photo 12 in Appendix B.</p>
FOD8-1	Fresh – Moist Poplar Deciduous Forest Type	FODM8-1	Fresh – Moist Poplar Deciduous Forest Type	Sandy Loam; Moisture = 2	22	<p>This deciduous forest community is dominated by Trembling Aspen, with occasional occurrences of American Elm, Black Ash (<i>Fraxinus nigra</i>), Eastern Hemlock, White Cedar and White Spruce (<i>Picea glauca</i>). The shrub layer is dominated by Silky Dogwood (<i>Cornus obliqua</i>) and Northern Prickly Ash, with rare occurrences of Red-osier Dogwood and Common Buckthorn. Herbaceous species present include Posion Ivy, Bluestem Goldenrod, Hemp Dogbane (<i>Apocynum cannabinum</i>), Tall Buttercup (<i>Ranunculus acris</i>), Toad Rush (<i>Juncus bufonius</i> var. <i>bufonius</i>), Tall Yellow Hawkweed, Woodland Strawberry and Riverbank Grape (<i>Vitis riparia</i>). See Photo 13 in Appendix B.</p>
FOD9	Fresh – Moist Oak – Maple – Hickory Deciduous Forest Ecosite	FODM9	Fresh – Moist Oak – Maple – Hickory Deciduous Forest Ecosite	Sandy Loam; Moisture = 3	23	<p>This community was dominated by Large-tooth Aspen (<i>Populus grandidentata</i>) with occasional occurrences of Sugar Maple and Bur Oak. Rare occurrences of Basswood and Green Ash are also present. The shrub layer contains Northern Prickly Ash and Trillium sp. Herbaceous species present include Strict Blue-eyed Grass (<i>Sisyrinchium montanum</i> var. <i>montanum</i>), Riverbank Grape and Virginia Creeper. See Photo 14 in Appendix B.</p>
FOD2	Dry – Fresh Oak – Maple – Hickory Deciduous Forest Ecosite	FODR2	Dry – Fresh Oak Hardwood Non-calcareous Shallow Deciduous Forest Ecosite	Silty fine sand; Moisture= 1	24	<p>This deciduous forest community is an inclusion dominated by Bur Oak, with occasional occurrences of Black Ash and American Elm. The shrub layer consists of Common Buckthorn, Riverbank Grape and Purple-flowering Raspberry (<i>Rubus odoratus</i>). Herbaceous species present consisted of Garden Birds-foot Trefoil, Viperine (<i>Echium plantagineum</i>), Bluegrass species (<i>Poa</i> sp.), Moss species, Northern Bedstraw (<i>Galium boreale</i>) and Oxeye Daisy. See Photo 15 in Appendix B.</p>
N/A	N/A	FOMM2-3	Dry – Fresh White Pine Hardwood Mixed Forest Type	Silty Loam; Moisture = Dry	25	<p>This mixed forest is dominated by White Pine with abundant occurrences White Ash. Occasional occurrences of Eastern Red Cedar and Eastern White Cedar are present. Rare occurrences of Black Cherry and Bur Oak. Shrub layer consists of Common Buckthorn, Northern Prickly Ash and Eastern White Cedar. Herbaceous species present include Grass sp., Aster sp., Wild Strawberry (<i>Fragaria virginiana</i>), Tall Yellow Hawkweed and Poison Ivy. Occasional occurrences include Garden Bird’s-foot Trefoil, Oxeye Daisy, Common Timothy (<i>Phleum pratense</i>), and Wild Carrot. See Photo 16 in Appendix B.</p>

First Approximation		Second Approximation		Soils*	Identifier on Figure 4^	Vegetation~
ELC Code	Classification	ELC Code	Classification			
N/A	N/A	FOMM4-3	Dry – Fresh White Cedar – Hardwood Mixed Forest Type	Silt; Moisture = 0	26	<p>This hardwood mixed forest is dominated by Eastern White Cedar with occasional occurrences of Paper Birch, Basswood, and Eastern Cottonwood (<i>Populus deltoides</i> ssp. <i>deltoides</i>).</p> <p>The shrub layer consists of Northern Prickly Ash, Common Buckthorn, White Ash, Sugar Maple and Black Cherry.</p> <p>Herbaceous species present include Aster sp., Wild Sarsaparilla, Poison Ivy, Wild Lily-of-the-valley (<i>Maianthemum canadense</i>), Bloodroot, and Virginia Creeper.</p> <p>See Photo 17 in Appendix B.</p>
FOM5-2	Dry – Fresh Poplar Mixed Forest Type	FOMM5-2	Dry – Fresh Poplar Mixed Forest Type	Sandy Loam; Moisture = 2	27	<p>This mixed forest community is dominated by Trembling Aspen with Eastern Red Cedar, American Elm and Sugar Maple associates.</p> <p>The shrub layer is dominated by Eastern Red Cedar and Eastern White Cedar with occasional occurrences of Common Buckthorn, Ground Juniper, Choke Cherry (<i>Prunus virginiana</i>) and Red-Osier Dogwood.</p> <p>Herbaceous species present include Grass sp., Aster sp., Field Horsetail (<i>Equisetum arvense</i>), Riverbank Grape.</p> <p>See Photo 18 in Appendix B.</p>
MAM	Meadow Marsh	MAM	Meadow Marsh	N/A	28	<p>In 50 m setback from the connection lines and transmission line routes. (photo not available)</p>
N/A	N/A	MAMM1-2	Cattail Graminoid Mineral Meadow Marsh Type	N/A	30	<p>In 50 m setback from some of the connection line routes. Community observed from roadside and generally appears to be dominated by either Broad-leaved Cattail (<i>Typha latifolia</i>) or Narrow-leaved Cattail (<i>Typha angustifolia</i>).</p> <p>See Photo 19 in Appendix B.</p>
MAM2-2	N/A	MAMM1-3	Reed-canary Grass Graminoid Mineral Meadow Marsh Type	N/A	31	<p>This community consists of Reed Canary Grass, Willow sp., Sensitive Fern, Stiff Marsh Madder (<i>Galium tinctorium</i>), Smartweed sp., with rare occurrences of Cottongrass Bulrush, Lesser Duckweed (<i>Lemna minor</i>), Wild Sarsaparilla, Common Boneset (<i>Eupatorium perfoliatum</i>), Wild Lily-of-the-valley, Ostrich Fern (<i>Matteuccia struthiopteris</i>), Marsh Fern (<i>Thelypteris palustris</i>) and Tall Mannagrass.</p> <p>See Photo 20 in Appendix B.</p>
MAM2-5	Narrow-leaved Sedge Mineral Meadow Marsh Type	MAMM1-9	Narrow-leaved Sedge Graminoid Mineral Meadow Marsh Type	Silty Clay Loam; Moisture = 6	32	<p>This community consist of Spikerush, Bebb’s Sedge, Fox Sedge, Woolly Sedge (<i>Carex pellita</i>), Reed Canary Grass, Yellow Water Buttercup (<i>Ranunculus flabellaris</i>) with rare occurrences of Narrow-leaved Cattail, Remote Sedge (<i>Carex tenera</i>).</p> <p>See Photo 21 in Appendix B.</p>
N/A	N/A	MAMM3	Mixed Mineral Meadow Marsh	N/A	33	<p>This community was assessed roadside and appeared to contain a more even mix of wetland graminoids and forbs observed in the adjacent willow thicket swamp but without a clear dominant species.</p> <p>See Photo 22 in Appendix B.</p>
N/A	N/A	MAMO1-2	Cattail Graminoid Organic Meadow Marsh Type	N/A	34	<p>This community contains abundant occurrences of Narrow-leaved Cattail with occasional occurrences of Northern Blueflag (<i>Iris versicolor</i>), Salix sp., Reed Canary Grass, and Tussock Sedge (<i>Carex stricta</i>).</p> <p>See Photo 23 in Appendix B.</p>
MAM3-2	Reed-canary Grass Organic Meadow Marsh Type	MAMO1-3	Reed-canary Grass Organic Meadow Marsh Type	N/A	35	<p>Herbaceous vegetation consist of abundant occurrences of Reed Canary Grass and Hop Sedge (<i>Carex lupulina</i>), with occasional occurrences of Marsh Fern. Other species present include Hammer Sedge (<i>Carex hirta</i>), Marsh Horsetail (<i>Equisetum palustre</i>), Water Loosestrife (<i>Lysimachia thyrsiflora</i>), Swamp Milkweed (<i>Asclepias incarnata</i>), Tussock Sedge, Sensitive Fern, Fox Sedge and Wild Lily-of-the-valley.</p> <p>This community contains White Meadowsweet with Red-osier Dogwood and Willow sp. among the shrub layer.</p> <p>See Photo 24 in Appendix B.</p>

First Approximation		Second Approximation		Soils*	Identifier on Figure 4^	Vegetation~
ELC Code	Classification	ELC Code	Classification			
MAM1	Bedrock Meadow Marsh	MAMR3	Bedrock/Rock Meadow Marsh	N/A	36	This community is dominated by Hammer Sedge with rare occurrences of Salix sp., Red-osier Dogwood, American Elm, Northern Blueflag, Reed Canary Grass, and Common Boneset. See Photo 25 in Appendix B .
MAS3-1	Cattail Organic Shallow Marsh Type	MASO1-1	Cattail Organic Shallow Marsh Type	N/A	37	This community is dominated by Narrow-leaved Cattail with abundant occurrences of Marsh Horsetail and occasional occurrences of Marsh Madder. Rare occurrences species include Water Dock (<i>Rumex orbiculatus</i>), Swamp Milkweed, Marsh Marigold (<i>Caltha palustris</i>), Northern Blueflag, and Reed Canary Grass among others. See Photo 26 in Appendix B .
CUM1-1	N/A	MEFM4/ TAGM1	Fresh – Moist Forb Meadow Ecosite	Silty Loam; Moisture 2	38	The forb meadow community is dominated by Goldenrod sp., Maiden’s Tears (<i>Silene vulgaris</i>), and Common Milkweed (<i>Asclepias syriaca</i>). Occasional occurrences of Bull Thistle (<i>Cirsium vulgare</i>), Wild Carrot, Garden Bird’s-foot Trefoil, Oxeye Daisy, Field Hawkweed (<i>Hieracium caespitosum</i> ssp. <i>caespitosum</i>), Red Clover, Tufted Vetch, and Poison Ivy are also present, among others. This community also contains an inclusion composed of White Spruce planted in rows. See Photo 27 in Appendix B .
CUM1-1	N/A	MEGM4	Fresh - Moist Graminoid Meadow Ecosite	Loamy Fine Sand; Moisture = 1-4	39	This graminoid meadow community consists of abundant occurrences include Goldenrod sp. Occasional species include Oxeye Daisy, Field Hawkweed, Red Clover, Tufted Vetch, Self-Heal (<i>Prunella vulgaris</i> ssp. <i>vulgaris</i>), Yellow Sweet-clover (<i>Melilotus officinalis</i>), Common Goatsbeard (<i>Aruncus dioicus</i>), Wild Carrot, Woodland Strawberry, Poison Ivy, Spreading Dogbane and Alfalfa (<i>Medicago sativa</i>). See Photo 28 in Appendix B .
CUM1	N/A	MEMM3	Dry – Fresh Mixed Meadow Ecosite	Clay; Moisture = 0	40	This mixed meadow community is dominated by Reed Canary Grass, with Tall Buttercup and Goldrenrod spp associates. Occasional species include Orchard Grass, Tufted vetch, Oxeye Daisy, Garden Bird’s-foot Trefoil, Black Medic (<i>Medicago lupulina</i>), Common Goatsbeard, Self-Heal , Philadelphia Fleabane, Three-flowered Avens (<i>Geum triflorum</i>), Yellow Sweet-clover, Poison Ivy and Toad Rush. Species rarely occurring include Bull Thistle, Common Burdock, Silvery Cinquefoil (<i>Potentilla argentea</i>), Common St. John’s-wort (<i>Hypericum perforatum</i>), Virginia Anemone (<i>Anemone virginiana</i> var. <i>virginiana</i>) as well as Bedstraw sp., and Agrimony sp. Occasional tree and shrub species present within this community include Eastern Red Cedar, Ground Juniper, Common Apple, Northern Prickly Ash, Common Buckthorn and Tartarian Honeysuckle (<i>Lonicera tatarica</i>). See Photo 29 in Appendix B .
CUM1	N/A	MEMM4	Fresh-Moist Mixed Meadow Ecosite	Sandy Loam; Moisture = 2	41	This mixed meadow community is dominated by Eastern Late Goldenrod (<i>Solidago altissima</i> ssp. <i>altissima</i>), Reed Canary Grass, and Wild Carrot, with occasionally occurrences of Oxyeye Daisy, White Sweet-clover, Wild Strawberry, and Red Clover. Rare species present include Spotted Joe Pye Weed (<i>Eutrochium maculatum</i> var. <i>maculatum</i>), Common Goat’s-beard, Yellow Sweet-clover, and Galium sp. Occasional tree and shrub species present within this community include Willow sp., Slippery Elm (<i>Ulmus rubra</i>), Red-osier Dogwood, Enchanters Deadly Nightshade, with rare occurrences of Tartarian Honeysuckle, Hawthorn sp., and Virginia Creeper. See Photo 30 in Appendix B .
CUM2	N/A	MEMR2	Dry-Fresh Non-Calcareous Bedrock Mixed Meadow Ecosite	Clay Loam; Moisture = 0	42	This mixed meadow community is dominated by Orchard Grass with abundant occurrences of Garden Bird’s-foot Trefoil. Occasional species include Oxeye Daisy, Tufted Vetch, Eastern Late Goldenrod (<i>Solidago altissima</i> ssp. <i>altissima</i>), Common Yarrow, Wild Strawberry, Timothy Grass, Yellow Hawkweed, Tall Buttercup, Hemp Dogbane, Common Goatsbeard, Reed Canary Grass, Sweet White Clover, Amethyst Aster (<i>Symphyotrium xamethystinum</i>), New England Aster, Sulphur Cinquefoil, Grey Goldenrod, Wild Parsnip, Black Medic, Field Milkweed, Heath Aster, Self-Heal, Pussytoes, and Yellow Avens. Alvar indicator species include Upland Goldenrod and Prairie Smoke. Shrub occurrences were rare and consist of Eastern Red Cedar, American Elm, Common Buckthorn, Russian Olive Common Apple (<i>Malus pumila</i>), Ground Juniper, Northern Prickly Ash, Tartarian Honeysuckle, Wild Raspberry and Gray Dogwood. See Photo 31 in Appendix B .

First Approximation		Second Approximation		Soils*	Identifier on Figure 4^	Vegetation~
ELC Code	Classification	ELC Code	Classification			
N/A	N/A	OAGM1	Annual Row Crop	N/A	43	Vegetation associated with this cultural community includes cultivated cereal and legume crops planted in rows such as wheat, corn and soy (photo not available).
N/A	N/A	OAGM2	Perennial Cover Crop	N/A	44	Vegetation associated with this cultural community generally consists of graminoid and forb species observed in other meadow communities that are cut back in the summer for hay (photo not available).
N/A	N/A	OAGM4	Open Pasture	N/A	45	Herbaceous species commonly found throughout this cultural community include Sweet White-clover, Red Clover, Common Timothy, Orchard Grass, Tall Buttercup, Tufted Vetch, Common Goat’s Beard, Oxeye Daisy, Common Yarrow, Garden Bird’s-foot Trefoil, Common Viper's-bugloss (<i>Echium vulgare</i>), Self-heal, Toad Rush and Silvery Cinquefoil (photo not available).
N/A	N/A	OA0	Open Aquatic Area	N/A	46	Vegetation associated with this Open Water community is generally submerged with emergent species such as Reed Canary Grass, Cattails and other wetland species around the banks. Community is associated with a tributary of Black Creek (photo not available).
ALO1-1	Dry Lichen – Moss Open Alvar Pavement Type	RBOA1-1	Dry Lichen – Moss Open Alvar Pavement Type	Silty Sand; Moisture = 0	47	<p>Moss, Lichen and Mossy Stonecrop (<i>Sedum acre</i> L.) is the dominate ground layer throughout this community.</p> <p>This alvar community is primarily open with abundant occurrences of Bluegrass sp., and Garden Bird’s-foot Trefoil, with occasional occurrences of Common Milkweed, Tufted Vetch, Orange and Yellow Hawkweed, Common Goat’s-beard, Common Yarrow, Common Evening Primrose (<i>Oenothera biennis</i>), Red Clover, Common Mullein, Virginia Creeper, Oxeye Daisy, and Tall Cinquefoil (<i>Drymocallis arguta</i>).</p> <p>Abundant shrub occurrences include Eastern Red Cedar with occasional occurrences of Common Buckthorn and rare occurrences of White Pine, Willow sp., Gray Dogwood and Common Buckthorn.</p> <p>Alvar indicator species include Philadelphia Panicgrass, False Pennyyoyal, Wiry Panicgrass, Balsam ragwort (<i>Packera paupercula</i>) and Upland Goldenrod.</p> <p>See Photo 32 in Appendix B.</p>
ALT1-5	Red Cedar – Early Buttercup Treed Alvar Type	RBTA1-5	Red Cedar Early Buttercup Treed Alvar Type	Loamy Fine Sand = 0	47 (inclusion)	<p>This community is present as an inclusion along the southern edge of RBOA1-1: Dry Lichen – Moss Open Alvar Pavement Type (community identifier 47).</p> <p>Herbaceous species include Moss, Lichen, Mossy Stonecrop, Common Fleabane, Common St. John’s Wort, Grey Goldenrod (<i>Solidago nemoralis</i>), Common Yarrow, Early Buttercup (<i>Ranunculus fascicularis</i>), Panicked Aster (<i>Symphyotrichum lanceolatum</i>), Common Bird’s Foot Trefoil, New England Aster, Curly Dock (<i>Rumex crispus</i>), Philadelphia Panic Grass, Poison Ivy, Riverbank Grape, Field Milkweed, Viper’s Bugloss, Common Timothy Grass, Sulphur Cinquefoil (<i>Potentilla recta</i>), and Wild Carrot.</p> <p>The shrub layer constituted the transition area between Dry Lichen-Moss Open Alvar Pavement Type to Dry-Fresh Oak Hardwood-Non-calcareous Shallow Deciduous Forest. It consisted of occasionally occurrences of European Buckthorn, Common Juniper, Green Ash, Eastern Red Cedar, Tartarian Honeysuckle, Trembling Aspen, White Elm and American Basswood.</p> <p>See Photo 33 in Appendix B.</p>
ALS1-1	Common Juniper Shrub Alvar Type	RBSA1-1	Common Juniper Shrub Alvar Type	Bedrock; Moisture = N/A	49	<p>This alvar community contain occasional occurrences of Eastern Red Cedar and Eastern White Cedar.</p> <p>The shrub layer is dominated by Ground Juniper with occasional occurrences of the Northern Prickly Ash and Staghorn Sumac.</p> <p>Herbaceous species present include Yellow and Orange Hawkweed, Philadelphia Fleabane, Red Clover, White Sweet-clover, Oxeye Daisy, Common Yarrow, Blue-eye Grass, Moss and Lichen .</p> <p>See Photo 34 in Appendix B (Photo was obtained during fall survey and therefore out of numerical order).</p>
ALS1	Shrub Alvar Ecosite	RBSA1	Alvar Shrub Rock Barren Ecosite	Bedrock; Moisture = N/A	50	<p>The shrub layer is the dominate community in this alvar ecosite, with abundant occurrences of Staghorn Sumac (<i>Rhus hirta</i>) and Common Buckthorn with the occasional occurrences of Ironwood, American Elm, Red-osier Dogwood, Ground Juniper, Prickly Ash, Eastern White Cedar, Eastern Red Cedar, and Tartarian Honeysuckle.</p> <p>Herbaceous species present include Moss, Lichen, Grasses sp., Wild Carrot, Common Milkweed, and Riverbank Grape. Occasional occurrences of Yellow Hawkweed, Sweet White-clover, Oxyeye Daisy, Tufted Vetch, Poison Ivy, Black Medic, Common Yarrow, Common Goats-beard, and Wild Lily-of-the-Valley, Thimbleweed (<i>Anemone virginiana</i>), Early Goldenrod (<i>Solidago juncea</i>), Gray Goldenrod (<i>Solidago nemoralis</i>), Heath Aster (<i>Symphyotrichum ericoides</i>), Common Mullein.</p> <p>See Photo 35 in Appendix B.</p>

First Approximation		Second Approximation		Soils*	Identifier on Figure 4^	Vegetation~
ELC Code	Classification	ELC Code	Classification			
CUW2-1	Red Cedar Cultural Alvar Woodland Type	RBTA1-7	Red Cedar Alvar Woodland Type	Silty Sand; Moisture = 0	51	<p>This alvar woodland community is dominated by Eastern Red Cedar in the canopy, sub-canopy and understory layer, with rare occurrences of American Elm, Eastern White Cedar, and White Ash in the canopy layer.</p> <p>In the sub-canopy occasional occurrences include Prickly Ash, Common Buckthorn, Staghorn Sumac, Common Apple, Ground Juniper and Gray Dogwood.</p> <p>Herbaceous species present include Oxeye Daisy, Tall Buttercup, Self-heal, Orange Hawkweed, Common Yarrow, Red Clover, Riverbank Grape, Wild Strawberry, Three-flowered Avens, Tufted Vetch, Wild Carrot, Poison Ivy, Common Milkweed ,Common Lilac, Viper’s Bugloss, Curley Dock, Heath Aster, Reed Canary Grass, Canada Thistle, Grey Goldenrod, New England Aster and Mossy Stonecrop. Areas of Lichen and Moss are occasional to abundant throughout these community as well.</p> <p>Alvar indicator species included Philadelphia Panic Grass, False Pennyroyal, Flat stemmed Spikerush (<i>Eleocharis compressa</i>), Wiry Panic Grass (<i>Panicum flexile</i>), Upland Goldenrod (<i>Solidago ptarmicoides</i>), Balsam ragwort, Early Buttercup (<i>Ranunculus fascicularis</i>), Prairie Smoke, and Carolina Whitlow-grass (<i>Draba reptans</i>). See Photo 36 in Appendix B.</p>
RBT1-1	Red Cedar Carbonate Treed Rock Barren Type	RBTB1-1	Red Cedar Calcareous Treed Rock Barren Type	Bedrock; Moisture = N/A	52	<p>This rock barren is dominated by Eastern Red Cedar with rare occurrences of White Elm and White Ash.</p> <p>The shrub layer is dominated by Common Buckthorn and Northern Prickly Ash with occasional occurrences of Prickly Gooseberry, Common Apple, Ground Juniper and Tartarian Honeysuckle (<i>Lonicera tataricq</i>).</p> <p>Herbaceous species present include Oxyeye Daisy, Garden Bird’s-foot Trefoil, Grass sp., Common Yarrow, Red Clover, Aster sp., Tufted Vetch, Wild Raspberry, Common Viper’s-bugloss, and Common Mullein. See Photo 37 in Appendix B.</p>
SWC3-1	White Cedar Organic Coniferous Swamp Type	SWC01-1	White Cedar Organic Coniferous Swamp Type	Organic (humic); Moisture = 8	53	<p>This community is dominated by Eastern White Cedar with rare occurrences of Green Ash, Black Ash, Eastern Cottonwood, Bristly Dewberry (<i>Rubus hispidus</i>) and American Elm.</p> <p>The shrub layer consists of Green Ash, Black Ash, American Elm, Silky Dogwood and Red-osier Dogwood with rare occurrences of Yellow Birch, Speckled Alder, Willow Sp. and White Meadow-sweet.</p> <p>Herbaceous species consist of Marsh Fern, Common Duckweed, Sensitive Fern, Wild Sarsaparilla, Hammer Sedge, Fibrous-root Sedge (<i>Carex communis</i>), Awl-fruited Sedge (<i>Carex stipata</i>), Narrow-leaved Cattail and Northern Blueflag. Rare occurrences of Bittersweet Nightshade (<i>Solanum dulcamara</i>), Porcupine Sedge (<i>Carex hystericina</i>), American Hog-peanut (<i>Amphicarpaea bracteata</i>), Marsh Horsetail, Hemlock Water-parsnip (<i>Sium suave</i>), Spotted Jewelweed (<i>Impatiens capensis</i>), Bulb-bearing Water-hemlock (<i>Cicuta bulbifera</i>), Wild Mock-cucumber (<i>Echinocystis lobata</i>), Riverbank Grape, Hammer Sedge, Fox Sedge, Loose-flowered Sedge (<i>Carex laxiflora</i>), Necklace Sedge (<i>Carex Projecta</i>), Bristly Sedge (<i>Carex comosa</i>), Northern Blueflag, Wild Sarsaparilla, Rattlesnake Fern, Canada Clearweed (<i>Pilea pumila</i>), Marsh Fern and Swamp Milkweed are also present. See Photo 38 in Appendix B.</p>
SWD	Deciduous Swamp	SWD	Deciduous Swamp	N/A	54	<p>This swamp community was within 50 m of a transmission line option though access was not permitted to asses it. The boundaries of the community were interpreted from aerial imagery. (photo not available)</p>
SWD2-1	Black Ash Mineral Deciduous Swamp Ecosite	SWDM2-1	Black Ash Mineral Deciduous Swamp Ecosite	Silty Clay Loam; Moisture = 6	55	<p>This deciduous community is dominated by Black Ash with rare occurrences of Green Ash.</p> <p>The shrub layer consists of young Green Ash.</p> <p>The herbaceous layer is dominated by Reed Canary Grass with occasional occurrences of European Stinging Nettle (<i>Urtica dioica</i> ssp. <i>dioica</i>) and Smartweed species (<i>Polygonum</i> sp.) Rare occurrences of Bitter-sweet Nightshade and Northern Water-plantain (<i>Alisma triviale</i>) also occur among others. See Photo 39 in Appendix B.</p>
SWD2-2	Green Ash Mineral Deciduous Swamp Ecosite	SWDM2-2	Green Ash Mineral Deciduous Swamp	Silty Clay; Moisture = 6	56	<p>This community consist of abundant occurrences of Green Ash with occasional occurrences of American Elm in the shrub layer. Rare occurrences of Willow sp. and Red-osier Dogwood are also present.</p> <p>The herbaceous species present include Fox Sedge, Spikerush species (<i>Eleocharis</i> sp.), Canada Rush, Northeastern Sedge, Bebb’s Sedge, Reed Canary Grass, Cottongrass Bulrush, Sensitive Fern, Tall Manna Grass. See Photo 40 in Appendix B.</p>

First Approximation		Second Approximation		Soils*	Identifier on Figure 4^	Vegetation~
ELC Code	Classification	ELC Code	Classification			
SWD3-3	Swamp Maple Mineral Deciduous Swamp Type	SWDM3-3	Swamp Maple Mineral Deciduous Swamp Type	Silty Clay; Moisture = 6	57	<p>This community contains rare occurrences of Freeman’s Maple (<i>Acer x freemannii</i>) and Trembling Aspen in the canopy. The shrub layer contains occasional occurrences of Freeman’s Maple, Green Ash, Silky Dogwood and Black Ash with rare occurrences of American Elm and Eastern White Cedar.</p> <p>The herbaceous layer consists of Smartweed sp., Swamp Milkweed, Wild Lily-of-the-Valley, and Reed Canary Grass.</p> <p>See Photo 41 in Appendix B.</p>
SWD4-5	Poplar Mineral Deciduous Swamp Type	SWDM4-5	Poplar Mineral Deciduous Swamp Type	Silty Clay; Moisture = 6	58	<p>This community is dominated by Trembling Aspen, with occasional occurrences of Green Ash and Eastern White Cedar. Rare occurrences of Black Ash, Freeman’s Maple, Riverbank Grape, Common Buckthorn and American Elm.</p> <p>Herbaceous species include Northern Water-horehound (<i>Lycopus uniflorus</i>), Common Boneset, Narrow-leaved Cattail, Aster sp., with rare occurrences of Poison Ivy, Northern Blue Flag, Water Parsnip, Northeastern Sedge, and Sensitive Fern. (photo not available)</p>
SWD	Deciduous Swamp	SWDM4	Mineral Deciduous Swamp Ecosite	N/A	59	<p>In 50 m setback from transmission line routes. Dense shrubs and high elevation along the edge of the community made it difficult to assess from the road. Community canopy appeared to be dominated by Trembling Aspen and Freeman’s Maple.</p> <p>See Photo 42 in Appendix B.</p>
SWD6-3	Swamp Maple Organic Deciduous Swamp	SWDO2-3	Swamp Maple Organic Deciduous Swamp	Organic (humic); Moisture = 9	60	<p>This community is dominated by Freeman’s Maple with rare occurrences of Green Ash, Black Ash, Eastern Cottonwood, Bristly Dewberry and American Elm. The shrub layer consists of Green Ash, Black Ash, American Elm, Silky Dogwood and Red-osier Dogwood with rare occurrences of Yellow Birch, Eastern White Cedar, Speckled Alder, Willow Sp. and White Meadow-sweet.</p> <p>Herbaceous species consist of Marsh Fern, Common Duckweed, Sensitive Fern, Wild Sarsaparilla, Hammer Sedge, Fibrous-root Sedge, Awl-fruited Sedge, Narrow-leaved Cattail and Northern Blue Flag. Rare occurrences of Bitter-sweet Nightshade, Porcupine Sedge, American Hog-peanut, Marsh Horsetail, Water Parsnip, Spotted Jewelweed, Bulb-bearing Water Hemlock, Wild Mock-cucumber, Riverbank Grape, Hammer Sedge, Fox Sedge, Necklace Sedge, Bristly Sedge, Northern Blueflag, Wild Sarsaparilla, Rattlesnake Fern, Canada Clearweed, Marsh Fern and Swamp Milkweed.</p> <p>See Photo 43 in Appendix B.</p>
SWT2	Mineral Thicket Swamp Ecosite	SWTM3	Willow Mineral Deciduous Thicket Swamp Ecosite	Silty Clay Loam; Moisture = 8	61	<p>This community has rare occurrences of Trembling Aspen, Eastern White Cedar and American Elm. The shrub layer consists of abundant occurrences of Willow sp., with occasional occurrences of White Meadow-sweet and rare occurrences of Green Ash, Eastern White Cedar and American Elm.</p> <p>Herbaceous species consist of Bebb’s Sedge, Hop Sedge, and Broom Sedge.</p> <p>See Photo 44 in Appendix B.</p>
SWT3	Organic Thicket Swamp Ecosite	SWTO2	Willow Organic Deciduous Thicket Swamp	Organic (humic); Moisture = 9	62	<p>This community was dominated by Willow sp., with rare occurrences of American Elm. Herbaceous species present include Sedge sp., CanadaManna Grass, Fox Sedge, and Red-osier Dogwood with rare occurrences of Common Boneset.</p> <p>See Photo 45 in Appendix B.</p>
SWT3	Organic Thicket Swamp Ecosite	SWTO5	Organic Deciduous Thicket Swamp Ecosite	Organic (humic); Moisture = 8	63	<p>This wetland community had a similar composition of vegetation to the Reed Canary Grass organic marsh but with higher abundances of deciduous tree saplings. An electrical transmission line runs over head of the community with an adjacent mature swamp maple organic deciduous swamp to the south. It is likely this community was once part of that swamp but receives regular brushing to maintain the height of vegetation in the utility corridor. The saplings that dominant this community include Green Ash, Freeman’s Maple with Red-osier Dogwood and White Meadowsweet associates. The areas not covered by woody vegetation are generally dominated by Reed Canary Grass and other wetland forbs found in the adjacent meadow marsh community.</p> <p>See Photo 46 in Appendix B.</p>
CUP3	Coniferous Plantations	TAGM1	Coniferous Plantation	N/A	64	<p>This land use consists of rows of planted coniferous trees. The majority of plantation lands in the vicinity of the Project Location contained spruce or pine.</p> <p>See Photo 47 in Appendix B.</p>

First Approximation		Second Approximation		Soils*	Identifier on Figure 4^	Vegetation~
ELC Code	Classification	ELC Code	Classification			
N/A	N/A	TAGM4	Treed Pasture	N/A	65	In 50 m setback from the connection line routes. Generally the vegetation appeared to be similar in composition to the Dry-Fresh Red Cedar Coniferous Woodland but with obvious degradation by cattle such as overgrazing and rutting. (photo not available)
N/A	N/A	TAGM5	Hedgerow	N/A	66	These narrow linear tree communities are found throughout the lands in the vicinity of the Project Location and are generally dominated by deciduous trees. (photo not available)
N/A	N/A	THCM1-1	Dry – Fresh Red Cedar Coniferous Thicket Type	Loamy Clay; Moisture = 0	67	This thicket community is dominated by Eastern Red Cedar with occasional occurrences of White Ash and Common Apple. The shrub layer is dominated by Northern Prickly Ash and White Ash. Herbaceous species present include Grass sp., Yellow Sweet-clover, Common Yarrow, Orange Hawkweed, Tall Buttercup, Oxeye Daisy, Tall Anemone, Tufted Vetch, Garden Bird’s-foot Trefoil and Red Clover. See Photo 48 in Appendix B .
N/A	N/A	THDM2-7	Prickly Ash Deciduous Shrub Thicket Type	N/A	68	In 50 m setback from the transmission line routes. Dominated by dense Northern Prickly Ash with occasional mature Red Cedar, Eastern White Cedar. See Photo 49 in Appendix B .
N/A	N/A	THDM2	Dry-fresh Deciduous Shrub Thicket Ecosite	N/A	69	In 50 m setback off of Centreville Road. Appeared to be similar composition to mixed meadow communities but with higher abundance of deciduous shrub species such as Common Lilac and Staghorn Sumac. See Photo 50 in Appendix B .
N/A	N/A	THDM5-1	Gray Dogwood Deciduous Thicket	N/A	70	Community is found along the boundary of Swamp Maple Organic Deciduous Swamp and contains similar upland species to that community with occasional wetland species and a high abundance of Gray Dogwood in the understory. See Photo 51 in Appendix B .
CUW1-1	Dry – Moist Old Field Meadow Type	WOCM1-1	Dry-Fresh Red Cedar Coniferous Woodland Type	Clay; Moisture = 6	71	This woodland forest community is dominated by Eastern Red Cedar, with rare occurrences of Black Ash and White Cedar. The shrub layer includes Northern Prickly Ash, Common Buckthorn and Ground Juniper. Herbaceous species present include Orchard Grass, Sedge sp., Gardens Bird’s-foot Trefoil, Oxeye daisy, Tufted Vetch, Wild Carrot, Wild Strawberry, Common Timothy, Orange Hawkweed, and Silvery Cinquefoil. See Photo 52 in Appendix B .
FOD5	Dry-Fresh Sugar Maple – Hardwood Calcareous Shallow Deciduous Forest Type	FODR1-1	Dry-Fresh Sugar Maple – Hardwood Calcareous Shallow Deciduous Forest	NA	72	This community was originally included as an inclusion in Dry-Fresh Red Cedar Alvar Woodland Type (RBTA1-7) in the northern section of NAP021. Upon further assessment, this community was determined to be large enough to be a separate polygon. The dominant tree canopy is Sugar Maple with occasional American Elm. There was no shrub layer present within the community. Herbaceous vegetation was minimal due to the large areas of bedrock. Occasional to rare occurrences of Poison Ivy, Virginia Creeper, Black Medic, Moss, Lichen and Common Red Raspberry was observed. See Photo 53 in Appendix B .
ALO1-4	Poverty Grass Open Alvar Meadow Type	RBOA1-4	Dry – Fresh Poverty Grass Open Alvar Meadow Type	Silty Loam = 0	73	This community exists in the northern section of NAP013, in an area of transition from RBOA1-1 Dry Lichen –Moss Open Alvar Pavement Type and FOMM4-3: White Cedar – Hardwood Mixed Forest Type. Abundant herbaceous species include Moss, Lichen, Poverty Oatgrass (<i>Danthonia spicata</i>), and Cow Vetch. Occasional species include Mossy Stonecrop, Common Fleabane, Common St. John’s Wort, Grey Goldenrod, Common Yarrow, Early Buttercup, Panicked Aster, Bird’s-foot Trefoil, Path Rush, New England Aster, Poison Ivy, Riverbank Grape, Field Milkweed, Viper’s Bugloss, Hawkweed, Common Timothy, Sulphur Cinquefoil and Wild Carrot. The shrub layer consisted of occasional occurrences of Tartarian Honeysuckle, Eastern Red Cedar, Common Juniper, and rare occurrences of European Buckthorn, and Green Ash. See Photo 54 in Appendix B .

First Approximation		Second Approximation		Soils*	Identifier on Figure 4^	Vegetation~
ELC Code	Classification	ELC Code	Classification			
CUM	Cultural Meadow	SAGM6	Shrub Pastureland	Silty Loam = 0	74	<p>The shrub layer is dominated by Eastern Red Cedar and Ground Juniper with occasional occurrences of Crab Apple, White Ash, Northern Prickly Ash, European Buckthorn and Tartarian Honeysuckle. Rare occurrences of Bur Oak and American Elm.</p> <p>Herbaceous species include Oxeye Daisy, Orchard Grass, Timothy Grass, Bird’s Foot-trefoil, Yellow Hawkweed, Cow Vetch, Common Yarrow, Canadian Bull thistle, Black Medic, Goat’s Beard, Red Clover, Self-Heal, Wild Strawberry, Thimbleweed, Tall Buttercup, Prairie Smoke, Queen Anne’s Lace and Yellow Sweet Clover.</p> <p>See Photo 55 in Appendix B.</p>

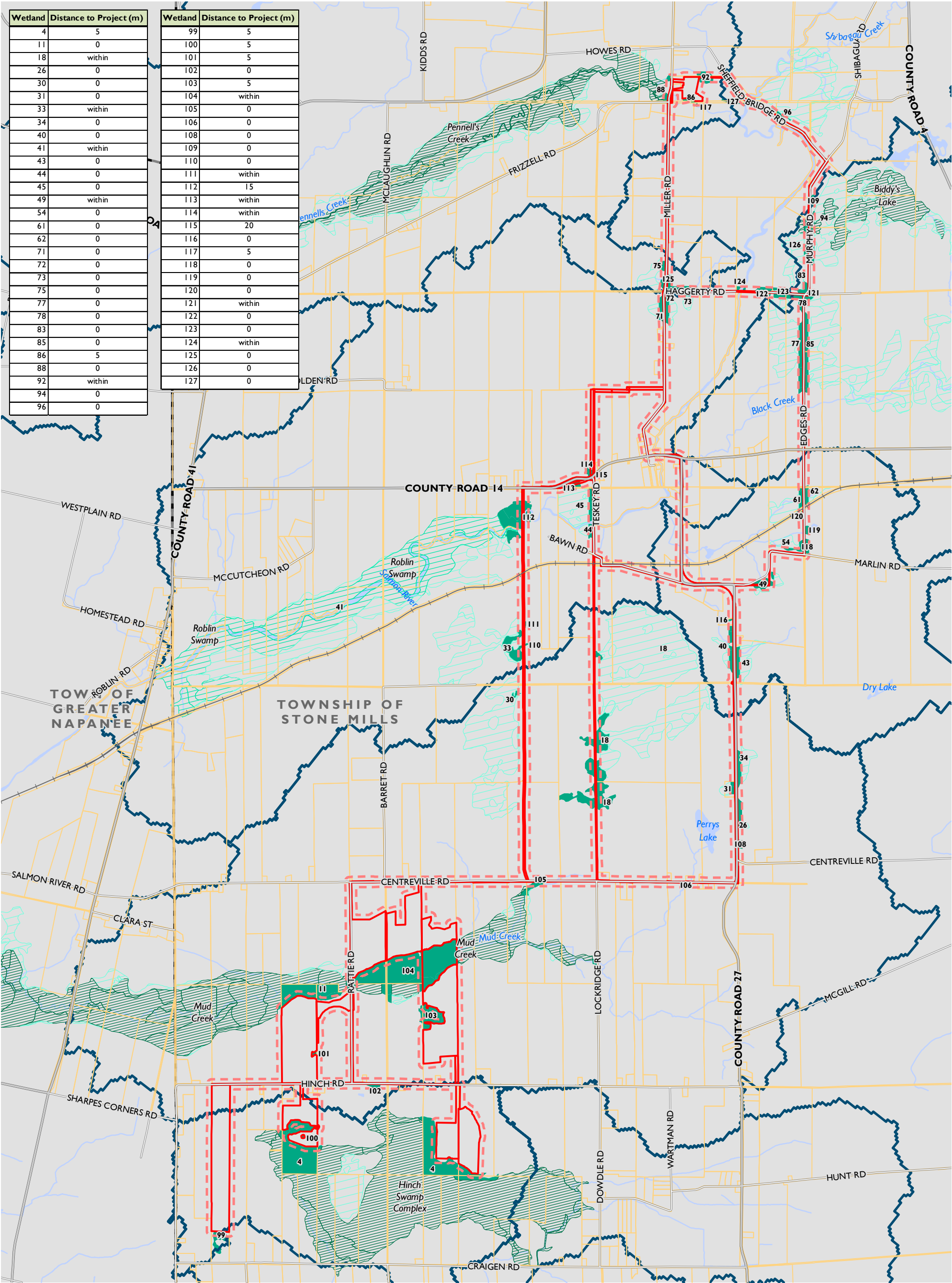
*Note: where soils is indicated ‘N/A’ this was based on lack of direct access to the property to collect soils information. Soils also were not described in agricultural fields. ^Identifiers 1, 18, 29 and 48 was intentionally omitted. ~ The polygon identifiers in **Figure 4** correspond to a table included in **Appendix B** with the sizes of each polygon.

7.2.2 Wetlands

As detailed in the *NHA Records Review Report*, a search and analysis of the records and resources identified twelve unevaluated southern wetlands located within the Project Location and/or 50 m setback area (**Figure 3**). Two provincially significant wetlands, Mud Creek and Hinch Swamp Complex, were identified in the Project Location or within the surrounding 50 m. Two additional provincially significant wetlands (Pennell's Creek and Biddy's Lake) and one evaluated non-provincially significant wetland (Roblin Swamp) were identified within the 50 m setback associated with connection line options. The focus of the wetlands site investigation was to determine the boundaries of wetland features as presented in **Figure 3** and to determine if additional wetlands were present. Where wetland features were identified using ELC (**Figure 4** and **Table 6**), delineation of the communities was undertaken using the OWES protocol (MNRF 2014).

The boundaries of all wetlands identified are shown on **Figure 5**. Please note, number identifiers for wetland units are not in sequence (the table starts with wetlands at the southern end of Project Location and generally moves north). As per Section 26 of *Ontario Regulation 359/09*, the mapping for the *NHA Site Investigation Report* is required to include the distance from an identified natural feature to the Project Location boundary. For natural features that may occur in a large area of the overall landscape, the distance reported on **Figure 5** is the closest distance to the Project Location boundary. Wetlands are identified as "within" the Project Location where a portion of the wetland is within a connection route option or a collector/collection line may be directionally bored under the wetland unit. Where the distance is reported as "0 m" from the Project Location boundary, this generally relates to the connection line options that are within the municipal road right-of-way. Where wetland features were identified immediately adjacent to municipal roads, it is assumed that the area of road right-of-way is not part of the wetland. For other areas of the Project Location, a minimum associated buffer of 5 m from the delineated edge of a wetland has been provided. This represents the distance between the edge of the wetland and the proposed construction area within the Project Location. Distances to PV panels, access roads and inverter stations are anticipated to exceed this minimum distance.

Table 7 outlines the attributes, composition and function of each wetland unit and confirms if the wetland was included in the records review or was identified as a result of these site investigations (**Figure 5**). Where candidate wildlife habitat is identified in association with a wetland unit, it should be noted that the wetland unit may form part of a larger natural feature under considerations as candidate wildlife habitat. **Figure 5** also outlines the minimum distance between the Project Location boundary and the closest portion of the wetland feature. Project components that fall within 50 m of each wetland boundary will be included in the *NHA Environmental Impact Study Report*. Amendments to the *NHA Records Review* are outlined in **Section 8**.



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

WETLANDS

FIGURE 5

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Parcel Boundary

Municipal Boundary

Catchment Area

Provincially Significant Wetland

Non-Provincially Significant Wetland

Unevaluated Wetland

Dillon Delineated Wetland

Mapped Watercourse

Mapped Water Body

Thunder Bay

Sault Ste. Marie

Sudbury

North Bay

Ottawa

Peterborough

Barrie

Toronto

Kingston

London

Windsor

Temmins

MAP CREATED BY: GM

MAP CHECKED BY: JP

DATA PROVIDED BY: MNR

MAP PROJECTION: NAD 1983 UTM Zone 18N

1:40,000

0 0.5 1 2 km

W N S E

PROJECT: 163674

STATUS: DRAFT

DATE: 11/24/2016

Table 7: Summary of Wetlands within the Project Location and surrounding 50 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
4	Yes Hinch Swamp Complex PSW Boundary Revised	306.3	48.1 m to Wetland 100	Swamp Maple (<i>Acer x freemanii</i>), Green Ash (<i>Fraxinus pennsylvanica</i>), Black Ash (<i>Fraxinus nigra</i>), White Elm (<i>Ulmus americana</i>), Eastern Cottonwood (<i>Populus deltoides</i>), Willow species (<i>Salix</i> sp.), Red-osier Dogwood (<i>Cornus sericea</i> ssp. <i>sericea</i>), Sensitive Fern (<i>Onoclea sensibilis</i>), Marsh Fern (<i>Thelypteris palustris</i> var. <i>pubescens</i>), Wild Sarsaparilla (<i>Aralia nudicaulis</i>), Bristly Dewberry (<i>Rubus hispidus</i>), Reed Canary Grass (<i>Phalaris arundinacea</i>), Narrow-leaved Cattail (<i>Typha angustifolia</i>), Hop Sedge (<i>Carex lupulina</i>), Fox Sedge (<i>Carex vulpinoidea</i>), Smartweed species (<i>Persicaria</i> sp.), Marsh Bedstraw (<i>Galium palustre</i>), Lesser Duckweed (<i>Lemna minor</i>)	Swamp Maple Organic Deciduous Swamp (SWDO2-3) Reed Canary Grass Graminoid Mineral Meadow Marsh (MAMM1-3)	H:Deciduous Trees Ts: Tall Shrubs Ls: Low Shrubs Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent Be: Broad-leaved Emergent FF: Free Floating	<ul style="list-style-type: none"> Generalized Candidate Significant Wildlife Habitat Amphibian Breeding Habitat (Woodland) Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) Marsh Breeding Bird Habitat (Green Heron) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Waterfowl Nesting Habitat Woodland Raptor Nesting Habitat Wood Thrush Habitat Old Growth Forest Red-headed Woodpecker Habitat 	No surface connection to other wetlands associated with the Project. Permanent outflows observed in the south part of the PSW crossing Craigen Road.	5 m
99	No	1.86	8.4 m to Wetland 98	Willow species, Trembling Aspen, White Meadowsweet, Green Ash, Eastern White Cedar, White Elm, Red-osier Dogwood, Bebb's Sedge, Hop Sedge, Pointed Broom Sedge (<i>Carex scoparia</i>), Narrow-leaved Cattail, Marsh Bedstraw, Sensitive Fern	Willow Mineral Deciduous Thicket Swamp (SWTM3)	H:Deciduous Trees C: Coniferous Trees Ls: Low Shrubs Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent	<ul style="list-style-type: none"> Generalized Candidate Significant Wildlife Habitat Waterfowl Nesting Area Amphibian Breeding Habitat (Woodland) Red-headed Woodpecker Habitat Wood Thrush Habitat Butterfly Species of Conservation Concern Habitat 	No surface connection observed	5 m
100	No	0.06	48.1 m to Wetland 4	Willow species, Reed Canary Grass	Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	Ne: Narrow-leaved Emergent Ts: Tall Shrubs	<ul style="list-style-type: none"> Waterfowl Nesting Area 	No surface connection observed	5 m
102	No	0.79	219.5 m to Wetland 4	Willow species	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	<ul style="list-style-type: none"> Generalized Candidate Significant Wildlife Habitat Waterfowl Nesting Habitat 	Likely seasonal overland flow connection to Wetland Unit 11/104 (Mud Creek PSW)	0 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
11	Yes Mud Creek PSW Boundary Revised	288.8	1.7 m to unevaluated wetland beyond Project location	Willow species, White Elm, Swamp Maple, White Meadowsweet (<i>Spiraea alba</i>), Red-osier Dogwood, Sedge species (<i>Carex</i> sp.), Lake-bank Sedge (<i>Carex lacustris</i>), Porcupine Sedge (<i>Carex hystericina</i>), Narrow-leaved Cattail, Marsh Bedstraw, Broad-leaved Cattail (<i>Typha latifolia</i>), Marsh Horsetail (<i>Equisetum palustre</i>), American Burreed (<i>Sparganium americanum</i>), Canada Mannagrass (<i>Glyceria canadensis</i>), Sensitive Fern, Reed Canary Grass, Spotted-joe Pyeweed (<i>Eutrochium maculatum</i>), Harlequin Blue Flag (<i>Iris versicolor</i>), Greater Water Dock (<i>Rumex orbiculatus</i>), Marsh Marigold (<i>Caltha palustris</i>), Sweet Flag (<i>Acorus americanus</i>), Common Boneset (<i>Eupatorium perfoliatum</i>), Canada Anemone (<i>Anemone canadensis</i>), Water Loosestrife (<i>Lysimachia thyrsiflora</i>), Swamp Milkweed (<i>Asclepias incarnata</i>)	Willow Mineral Deciduous Thicket Swamp (SWTM3) Willow Organic Deciduous Thicket Swamp (SWTO2) Cattail Graminoid Organic Shallow Marsh (MASO1-1) Reed Canary Grass Graminoid Mineral Meadow Marsh (MAMM1-3) Swamp Maple Organic Deciduous Swamp (SWDO2-3) Mud Creek PSW	Re: Robust Emergent Ne: Narrow-leaved Emergent Be: Broad-leaved Emergent H: Deciduous Trees Dh: Dead Deciduous C: Coniferous Trees Ts: Tall Shrubs Ls: Low Shrubs Gc: Herbs	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatWoodland Area-Sensitive Bird Breeding HabitatWaterfowl Nesting HabitatAmphibian Breeding Habitat (Woodland)Colonially Nesting Bird Breeding Habitat (Ground)Old Growth ForestRed-headed Woodpecker HabitatLarge Yellow Pond Lily Habitat	Mud Creek begins north of Centreville Road and east of Lockbridge Road. It runs through the PSW in a westerly direction to where it connects with the Salmon River. Connects several unevaluated wetlands not associated with Project.	0 m
104	Yes Mud Creek PSW Boundary Revised	85.47	8.2 m to Wetland 11	Willow species, White Elm, Swamp Maple, White Meadowsweet (<i>Spiraea alba</i>), Red-osier Dogwood, sedge species (<i>Carex</i> sp.), Lake-bank Sedge (<i>Carex lacustris</i>), Porcupine Sedge (<i>Carex hystericina</i>), Narrow-leaved Cattail, Reed Canary Grass, Broad-leaved Cattail (<i>Typha latifolia</i>), Marsh Horsetail (<i>Equisetum palustre</i>), American Burreed (<i>Sparganium americanum</i>), Marsh Bedstraw, Sensitive Fern, Canada Mannagrass (<i>Glyceria canadensis</i>), Spotted-joe Pyeweed (<i>Eutrochium maculatum</i>), Harlequin Blue Flag (<i>Iris versicolor</i>), Greater Water Dock (<i>Rumex orbiculatus</i>), Marsh Marigold (<i>Caltha palustris</i>), Sweet Flag (<i>Acorus americanus</i>), Common Boneset (<i>Eupatorium perfoliatum</i>), Canada Anemone (<i>Anemone canadensis</i>), Water Loosestrife (<i>Lysimachia thyrsiflora</i>), Swamp Milkweed (<i>Asclepias incarnata</i>)	Willow Mineral Deciduous Thicket Swamp (SWTM3) Willow Organic Deciduous Thicket Swamp (SWTO2) Cattail Graminoid Organic Shallow Marsh (MASO1-1) Reed Canary Grass Graminoid Mineral Meadow Marsh (MAMM1-3) Swamp Maple Organic Deciduous Swamp (SWDO2-3) Mud Creek PSW	Re: Robust Emergent Ne: Narrow-leaved Emergent Be: Broad-leaved Emergent H: Deciduous Trees Dh: Dead Deciduous C: Coniferous Trees Ts: Tall Shrubs Ls: Low Shrubs Gc: Herbs	<ul style="list-style-type: none">Waterfowl Stopover and Staging Area (Aquatic)Colonially Nesting Bird Breeding Habitat (Trees & Shrubs; Ground)Waterfowl Nesting HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatTurtle Overwintering HabitatTurtle Nesting AreaAmphibian Breeding Habitat (Woodland)Marsh Breeding Bird Habitat (General; Green Heron)Terrestrial CrayfishLarge Yellow Pond Lily HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	Mud Creek begins north of Centreville Road and east of Lockbridge Road. It runs through the PSW west to where it connects with the Salmon River. Connected by surface water to Wetland 11 and several unevaluated wetlands not associated with Project.	Within

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
105	No	0.28	12.2 m to Wetland 104	Willow species	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	<ul style="list-style-type: none"> Generalized Candidate Significant Wildlife Habitat Old Growth Forest Waterfowl Nesting Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Amphibian Breeding Habitat (Woodland) Red-headed Woodpecker Habitat Butterfly Species of Conservation Concern Habitat 	Surface water connection to Wetland Unit 11 and 104 (Mud Creek PSW)	0 m
101	No	0.16	532.7 to Wetland 11	Bebb's Sedge, Fox Sedge, Slender Sedge, Spikerush Species, Woolly Sedge (<i>Carex pellita</i>), Reed Canary Grass, Narrow-leaved Cattail	Narrow-leaved Sedge Graminoid Mineral Meadow Marsh (MAMM1-9)	Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent	<ul style="list-style-type: none"> Amphibian Breeding Habitat (Wetland) Waterfowl Nesting Habitat 	No surface connection observed	5 m
103	No	4.71	127 m to Wetland 104	Green Ash, White Elm, Trembling Aspen, Willow species, Red-osier Dogwood, Eastern White Cedar, Bebb's Sedge, Lake-bank Sedge, Tussock Sedge, Tuckerman's Sedge (<i>Carex tuckermanii</i>), Northeastern Sedge, Swamp Milkweed, Swamp White Oak (<i>Quercus bicolor</i>), Canada Mannagrass, Reed Canary Grass, Narrow-leaved Cattail, Marsh Bedstraw, Marsh Horsetail, Common Boneset, Porcupine Sedge, Harlequin Blue Flag	Green Ash Mineral Deciduous Swamp (SWDM2-2) Cattail Graminoid Organic Meadow Marsh (MAMO1-2) Bedrock Meadow Marsh (MAMR3)	H:Deciduous Trees C: Coniferous Trees Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent	<ul style="list-style-type: none"> Generalized Candidate Significant Wildlife Habitat Marsh Breeding Bird Habitat (Green Heron) Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Waterfowl Nesting Habitat 	No surface connection observed	5 m
18	Yes Boundary Revised	131.03	30.5 m to an unevaluated wetland beyond Project Location	Swamp Maple, Black Ash, Green Ash, White Elm, Eastern White Cedar (<i>Thuja occidentalis</i>), Bristly Dewberry, Red-osier Dogwood, Reed Canary Grass, Harlequin Blue Flag, Wild Sarsaparilla, Canada Mannagrass, Marsh Fern, Canada Clearweed (<i>Pilea pumila</i>), Northeastern Sedge, Grey Dogwood (<i>Cornus racemosa</i>), Silky Dogwood (<i>Cornus obliqua</i>), Hop Sedge, Swamp Milkweed, Smartweed species, Canada Anemone *Communities were quite flooded in spring of 2016, water was still receding, leaving large areas of bare ground at time of survey	Swamp Maple Organic Deciduous Swamp (SWDO 2-3) White Cedar Organic Coniferous Swamp (SWCO1-1) Poplar Mineral Deciduous Swamp (SWDM4-5) Swamp Maple Mineral Deciduous Swamp (SWDM3-3)	H:Deciduous Trees C: Coniferous Trees Ls: Low Shrubs Gc: Herbs Ne: Narrow-leaved Emergent	<ul style="list-style-type: none"> Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Waterfowl Nesting Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Marsh Breeding Bird Habitat (Green Heron) Waterfowl Stopover & Staging Area (Aquatic) Reptile Hibernaculum 	Likely seasonal surface water connection to Wetland 104/105	Within

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
30	Yes Boundary Revised	50.39	48.4 m to an unevaluated wetland beyond Project Location	Reduced in size. One small unit left on a property where no access was granted to assess – boundary extrapolated from aerial imagery	SWD: Deciduous Swamp	H: Deciduous Trees	<ul style="list-style-type: none">• Old Growth Forest• Woodland Raptor Nesting Habitat• Red-headed Woodpecker Habitat• Butterfly Species of Conservation Concern Habitat• Generalized Candidate Significant Wildlife Habitat• Amphibian Breeding Habitat (Woodland)• Woodland Area-Sensitive Bird Breeding Habitat• Waterfowl Nesting Habitat• Bald Eagle & Osprey Nesting, Foraging and Perching Habitat• Woodland Raptor Nesting Habitat• Red-headed Woodpecker Habitat	Undetermined	0 m
33	Yes Boundary Revised	35.21	10.2 m to Wetland 110	Trembling Aspen, Black Ash, Eastern White Cedar, White Elm, Swamp Maple, Red-osier Dogwood, Common Boneset, Narrow-leaved Cattail, Northern Water-horehound (<i>Lycopus uniflorus</i>), Northeastern Sedge, Sensitive Fern, Hemlock Water Parsnip (<i>Sium suave</i>), Harlequin Blue Flag	Poplar Mineral Deciduous Swamp (SWDM4-5)	H:Deciduous Trees C: Coniferous Trees Ls: Low Shrubs Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent Be: Broad-leaved Emergent	<ul style="list-style-type: none">• Waterfowl Stopover & Staging Area (Aquatic)• Amphibian Breeding Habitat (Woodland)• Woodland Area-Sensitive Bird Breeding Habitat• Colonially Nesting Bird Breeding Habitat (Trees & Shrubs)• Waterfowl Nesting Habitat• Bald Eagle & Osprey Nesting, Foraging and Perching Habitat• Old Growth Forest• Woodland Raptor Nesting Habitat• Red-headed Woodpecker Habitat• Butterfly Species of Conservation Concern Habitat	Appears to be connected to other unevaluated further west	Within
110	Yes Boundary Revised	0.07	10.2 m to Wetland 33	On a property where no access was permitted. Delineation was completed within corridor only. Dense coniferous hedgerow made an alternative assessment difficult. Appeared to be a mix of common wetland forbs and graminoids observed in other communities within the larger study area.	Meadow Marsh (MAM)	Ne: Narrow-leaved Emergent	<ul style="list-style-type: none">• Generalized Candidate Significant Wildlife Habitat• Amphibian Breeding Habitat (Woodland)• Waterfowl Nesting Habitat• Butterfly Species of Conservation Concern Habitat	No connection observed	0 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
111	Yes Boundary Revised	0.16	31.9 m to an unevaluated wetland beyond Project Location	On a property where no access was permitted. Delineation was completed within corridor only. Dense coniferous hedgerow made an alternative assessment difficult. Appeared to be a mix of common wetland forbs and graminoids observed in other communities within the larger study area.	Meadow Marsh (MAM)	Ne: Narrow-leaved Emergent	<ul style="list-style-type: none">Amphibian Breeding Habitat (Woodland)Waterfowl Nesting HabitatMarsh Breeding Bird Habitat (Green Heron)Butterfly Species of Conservation Concern Habitat	No connection observed	Within
106	No	0.22	278.2 m to unevaluated wetland beyond the Project Location		Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	Ne: Narrow-leaved Emergent	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatButterfly Species of Conservation Concern HabitatLarge Yellow Pond Lily Habitat	No surface connection observed	0 m
108	No	0.47	134.7 m to Wetland 26	Willow species, Reed Canary Grass	Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)/Willow Mineral Deciduous Thicket Swamp (SWTM3) Complex	Ts: Tall Shrubs Ne: Narrow-leaved Emergent	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife Habitat	No surface connection observed	0 m
26	Yes Boundary Revised	1.94	43.5 m to Wetland 31	Eastern White Cedar, Trembling Aspen, Broad-leaved Cattail	White Cedar Organic Coniferous Swamp (SWCO1-1)	H: Deciduous Trees C: Coniferous Trees Re: Robust Emergent	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatReptile HibernaculumOld Growth ForestAmphibian Breeding Habitat (Woodland)	Connection by surface water to wetland 31	0 m
31	Yes Boundary Revised	1.99	11.3 m to unevaluated wetland beyond the Project Location	Eastern White Cedar, Broad-leaved Cattail	White Cedar Organic Coniferous Swamp (SWCO1-1) Cattail Mineral Meadow Marsh (MAMM1-2)	C: Coniferous Trees Re: Robust Emergent	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatReptile HibernaculumOld Growth ForestBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatRed-headed Woodpecker Habitat	Connection by ephemeral surface water to wetland 34	0 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
34	Yes Boundary Revised	5.41	26 m to Wetland 31	Eastern White Cedar, Trembling Aspen, Broad-leaved Cattail	White Cedar Organic Coniferous Swamp (SWCO1-1)	H: Deciduous Trees C: Coniferous Trees Re: Robust Emergent	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatReptile HibernaculumOld Growth ForestAmphibian Breeding Habitat (Woodland)	Connection by ephemeral surface water to wetland 31	0 m
40	Yes Boundary Revised	4.24	25.9 m to Wetland 43	Trembling Aspen, Green Ash, Willow species, Eastern White Cedar, Swamp Maple, White Elm	Mineral Deciduous Swamp (SWDM4)	H: Deciduous Trees Dh: Dead Deciduous C: Coniferous Tress	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestWaterfowl Nesting AreaBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatRed-headed Woodpecker Habitat	Connection by surface water to wetland 43	0 m
43	Yes Boundary Revised	6.92	25.9 m to Wetland 40	Trembling Aspen, Green Ash, Willow species, Eastern White Cedar, Swamp Maple, White Elm	Mineral Deciduous Swamp (SWDM4)	H: Deciduous Trees Dh: Dead Deciduous C: Coniferous Tress	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestAmphibian Breeding Habitat (Woodland)Waterfowl Nesting AreaButterfly Species of Conservation Concern Habitat	Connection by surface water to wetland 40	0 m
116	No	0.14	50.8 m to Wetland 40	Trembling Aspen, Green Ash, Willow species, Eastern White Cedar, Swamp Maple, White Elm	Mineral Deciduous Swamp (SWDM4)	H: Deciduous Trees Dh: Dead Deciduous C: Coniferous Tress	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestWaterfowl Nesting Area	Connection by surface water to wetland 40	0 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
41	Yes Roblin Swamp Boundary Revised	250.46	8.2 m to an unevaluated wetland beyond Project location	Swamp Maple, Reed Canary Grass No access – assessed from roadside	Swamp Maple Mineral Deciduous Swamp (SWDM3-3) Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	H: Deciduous Trees Ne: Narrow-leaved Emergent	<ul style="list-style-type: none"> • Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) • Amphibian Breeding Habitat (Woodland) • Woodland Area-Sensitive Bird Breeding Habitat • Waterfowl Nesting Area • Bald Eagle & Osprey Nesting, Foraging and Perching Habitat • Old Growth Forest • Woodland Raptor Nesting Habitat • Marsh Breeding Bird Habitat (General; Green Heron) • Red-headed Woodpecker Habitat • Large Yellow Pond Lily Habitat 	Riverine wetland – hydrological connection to Salmon River and by association Pennell's Creek PSW and several unevaluated wetlands	Within
112	No	0.7	14.7 m to Wetland 41	Swamp Maple, Reed Canary Grass No access – assessed from roadside	Swamp Maple Mineral Deciduous Swamp (SWDM3-3)	H: Deciduous Trees Ne: Narrow-leaved Emergent	<ul style="list-style-type: none"> • Generalized Candidate Significant Wildlife Habitat • Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) • Waterfowl Nesting Area 	Riverine wetland – hydrological connection to Salmon River and, by association, Pennell's Creek PSW and several unevaluated wetlands	15 m
44	Yes Boundary Revised	2.15	18.5 m to Wetland 45	Green Ash	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none"> • Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) • Bald Eagle & Osprey Nesting, Foraging and Perching Habitat • Wood Thrush Habitat 	Riverine – connected by Salmon River to Wetland 41 and 45	0 m
45	Yes Boundary Revised	13.4	7.4 m to Wetland 113	Green Ash	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none"> • Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) • Bald Eagle & Osprey Nesting, Foraging and Perching Habitat • Amphibian Breeding Habitat (Woodland) • Wood Thrush Habitat 	Riverine – connected by Salmon River to Wetland 41 and 44	0 m
113	No	0.62	7.4 m to Wetland 45	Green Ash	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none"> • Bald Eagle & Osprey Nesting, Foraging and Perching Habitat • Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) • Amphibian Breeding Habitat (Woodland) • Marsh Breeding Bird Habitat (Green Heron) • Wood Thrush Habitat 	Palustrine – connected by seasonal surface water to Wetland 45	Within

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
114	No	0.70	21.6 m to Wetland 115	Willow species, White Meadowsweet, Reed Canary Grass, Harlequin Blue Flag, Narrow-leaved Cattail, Fox Sedge, Canada Anemone, Marsh Marigold,	Reed Canary Grass Organic Meadow Marsh (MAMO1-3) Willow Organic Thicket Swamp (SWTO2)	H:Deciduous Trees Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent	• Marsh Breeding Bird Habitat (General)	Surface water connection to Wetland 115	Within
115	No	0.05	13.9 m to unevaluated wetland beyond the Project Location	Reed Canary Grass, Harlequin Blue Flag, Narrow-leaved Cattail, Fox Sedge, Canada Anemone, Marsh Marigold	Reed Canary Grass Organic Meadow Marsh (MAMO1-3)	Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent	• Generalized Candidate Significant Wildlife Habitat	Surface water connection to Wetland 114	20 m
49	Yes Boundary Revised	3.38	274.4 m to Wetland 54	Broad-leaved Cattail	Cattail Mineral Meadow Marsh (MAMM1-2)	Re: Robust Emergent	• Amphibian Breeding Habitat (Woodland) • Marsh Breeding Bird Habitat (General & Green Heron) • Butterfly Species of Conservation Concern	Ephemeral connection to Wetland 54, 61, 62, 118, 119	Within
118	No	0.83	12.2 m to Wetland 54	Willow species (<i>Salix</i> sp.)	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	• Generalized Candidate Significant Wildlife Habitat	Intermittent connection to Wetland 49, 54, 61, 62, 119	0 m
54	Yes Boundary Revised	3.56	12.2 m to Wetland 118	Broad-leaved Cattail	Cattail Mineral Meadow Marsh (MAMM1-2)	Re: Robust Emergent	• Generalized Candidate Significant Wildlife Habitat	Intermittent connection to Wetland 49,61, 62, 118, 119	0 m
119	No	0.47	49.8 m to Wetland 119	Broad-leaved Cattail	Cattail Mineral Meadow Marsh (MAMM1-2)	Re: Robust Emergent	• Generalized Candidate Significant Wildlife Habitat	Intermittent connection to Wetland 49, 54, 61, 62, 118	0 m
120	No	0.08	21.9 m to Wetland 61	Willow species	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	• Generalized Candidate Significant Wildlife Habitat	No connection observed	0 m
61	Yes Boundary Revised	7.3	12.1 m to Wetland 62	Willow species (<i>Salix</i> sp.), Green Ash	Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees Ts: Tall Shrubs	• Generalized Candidate Significant Wildlife Habitat	Intermittent connection to Wetland 49, 54, 61, 118, 119	0 m
62	Yes Boundary Revised	3.04	12.1 m to Wetland 61	Willow species (<i>Salix</i> sp.), Green Ash	Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees Ts: Tall Shrubs	• Generalized Candidate Significant Wildlife Habitat	Intermittent connection to Wetland 49, 54, 61, 118, 119	0 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
85	Yes Boundary Revised	92.2	7.3 m to Wetland 121	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestAmphibian Breeding Habitat (Woodland)Bald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatWoodland Area-Sensitive Bird Breeding HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	Connected by surface water to Wetland 77	0 m
77	Yes Boundary Revised	21.71	12.2 m to Wetland 85	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestBald Eagle & Osprey Nesting, Foraging and Perching HabitatAmphibian Breeding Habitat (Woodland)Woodland Raptor Nesting HabitatWoodland Area-Sensitive Bird Breeding HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	No surface connection observed	0 m
78	Yes Boundary Revised	3.11	12.2 m to Wetland 83	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Amphibian Breeding Habitat (Woodland)Bald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatWoodland Area-Sensitive Bird Breeding HabitatOld Growth ForestRed-headed Woodpecker HabitatWood Thrush Habitat	No surface connection observed	0 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
121	No	0.18	7.3 m to Wetland 85	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none">Amphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Bald Eagle & Osprey Nesting, Foraging and Perching HabitatOld Growth ForestWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	No surface connection observed	Within
83	No	1.19	12.2 m to Wetland 78	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatOld Growth ForestRed-headed Woodpecker HabitatWood Thrush Habitat	No surface connection observed	0 m
126	Yes Biddy's Lake PSW Boundary Revised	9.38	12.2 m to Wetland 94	Willow species, Green Ash, Swamp Maple	Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees Ts: Tall Shrubs	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Amphibian Breeding Habitat (Woodland)Bald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Area-Sensitive Bird Breeding HabitatOld Growth ForestWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	Connected by surface water to Wetland 94	0 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
94	Yes Boundary Revised	80.63	12.2 m to Wetland 126	Willow species, Green Ash, Swamp Maple	Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2) Biddy's Lake PSW	H: Deciduous Trees Ts: Tall Shrubs	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatWoodland Area-Sensitive Bird Breeding HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatOld Growth ForestWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush HabitatAmphibian Breeding Habitat (Woodland)	Connected by surface water to Wetland 109	0 m
109	Yes Boundary Revised	0.52	12.3 m to Wetland 94	Green Ash, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2) Biddy's Lake PSW	H: Deciduous Trees Ts: Tall Shrubs	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Amphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatOld Growth ForestRed-headed Woodpecker HabitatWood Thrush Habitat	Connected by surface water to Wetland 129	0 m
122	No	0.54	12.2 m to Wetland 123	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	No surface connection observed	0 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
123	No	1.57	12.2 to Wetland 122	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	No surface connection observed	0 m
124	Yes Boundary Revised	0.23	9.8 m to unevaluated wetland beyond 50 m of Project Location	Swamp Maple	Swamp Maple Mineral Deciduous Swamp (SWDM3-3)	H: Deciduous Trees	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	Riverine – connected to several other unevaluated wetlands up and downstream	Within
125	No	2.19	12.2 m to Wetland 73	Willow species, Green Ash, Swamp Maple	Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees Ts: Tall Shrubs	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatOld Growth ForestBald Eagle & Osprey Nesting, Foraging and Perching HabitatAmphibian Breeding Habitat (Woodland)Woodland Raptor Nesting HabitatWoodland Area-Sensitive Bird Breeding HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	Intermittent connection to Wetland 71, 72, 75	0 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
71	Yes Boundary Revised	2.61	15.3 m to Wetland 72	Willow species	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	Intermittent connection to Wetland 72, 75, 125	0 m
72	Yes Boundary Revised	3.63	15.3 m to Wetland 71	Willow species, Green Ash, Swamp Maple	Willow Mineral Deciduous Thicket Swamp (SWTM3) Swamp Maple Mineral Deciduous Swamp (SWDM3-3)	H: Deciduous Trees Ts: Tall Shrubs	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatOld Growth ForestAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	Intermittent connection to Wetland 71, 75, 125	0 m
73	Yes Boundary Revised	1.73	12.2 m to Wetland 125	Green Ash, Trembling Aspen	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	No surface connection observed	0 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
75	Yes Boundary Revised	6.28	19.7 m to Wetland 125	Willow species	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Trees & Shrubs)Old Growth ForestAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatBald Eagle & Osprey Nesting, Foraging and Perching HabitatWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	Intermittent connection to Wetland 72, 75, 125	0 m
88	Yes Pennell's Creek PSW Boundary Revised	185.55	39.7 m to unevaluated wetland beyond 50 m of the Project Location	Willow species, Green Ash, Swamp Maple, Reed Canary Grass	Green Ash Mineral Deciduous Swamp (SWDM2-2) Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	H: Deciduous Tree Ne: Narrow-leaved Emergent	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Tree/Shrubs; Ground))Waterfowl Nesting Area	Riverine – connected to several other unevaluated wetlands up and downstream	0 m
86	Yes Boundary Revised	0.58	9.5 m to Wetland 117	Black Ash, Green Ash, Reed Canary Grass	Black Ash Mineral Deciduous Swamp (SWDM2-1) Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	H: Deciduous Trees Ne: Narrow-leaved Emergent	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Tree/Shrubs; Ground)Bald Eagle & Osprey Nesting, Foraging and Perching HabitatAmphibian Breeding Habitat (Woodland)Woodland Area-Sensitive Bird Breeding HabitatWaterfowl Nesting AreaWoodland Raptor Nesting HabitatRed-headed Woodpecker HabitatWood Thrush Habitat	Riverine wetland – hydrological connection to Salmon River and by association Pennell's Creek PSW and several unevaluated wetlands	5 m
117	Yes Boundary Revised	0.08	9.5 m to Wetland 86	Reed Canary Grass	Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	Ne: Narrow-leaved Emergent	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Ground)Amphibian Breeding Habitat (Woodland)	Riverine wetland – hydrological connection to Salmon River and by association Pennell's Creek PSW and several unevaluated wetlands	5 m

Wetland ID	Wetland Identified During Records Review	Attributes		Composition			Function		Minimum Distance to Project Location
		Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
92	Yes Boundary Revised	1.9	172.2 m to Wetland 86	Black Ash, Green Ash, Reed Canary Grass, Northern Water-plantain (<i>Alisma triviale</i>), Slender Stinging Nettle (<i>Urtica dioica</i> ssp. <i>gracilis</i>), Smartweed species	Black Ash Mineral Deciduous Swamp (SWDM2-1) Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	H: Deciduous Trees Ne: Narrow-leaved Emergent Gc: Ground Cover	<ul style="list-style-type: none">Woodland Area-Sensitive Bird Breeding HabitatWaterfowl Nesting AreaWood Thrush HabitatGeneralized Candidate Significant Wildlife HabitatAmphibian Breeding Habitat (Woodland)Marsh Breeding Bird Habitat (General & Green Heron)Colonially Nesting Bird Breeding Habitat (Tree/Shrubs)Waterfowl Nesting AreaBald Eagle & Osprey Nesting, Foraging and Perching Habitat	Likely seasonal surface water connection to Wetland 88 (Pennell’s Creek PSW)	Within
127	Yes Boundary Revised	0.86	2 m to an unevaluated wetland beyond Project Location	Green Ash, Swamp Maple, White Meadowsweet, Red-osier Dogwood, Willow species, Reed Canary Grass, Harlequin Blue Flag, Lake-bank Sedge, Hop Sedge, Tussock Sedge (<i>Carex stricta</i>), Fox Sedge, Marsh Fern, Marsh Horsetail, Water Loosestrife, Swamp Milkweed, Spotted-joe Pyeweed, Sensitive Fern, Canada Anemone	Reed Canary Grass Graminoid Organic Meadow Marsh (MAMO1-3) Organic Deciduous Thicket Swamp (SWTO5)	H: Deciduous Trees Ls: Low Shrubs Ne: Narrow-leaved Emergent Gc: Herbs	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Ground)Amphibian Breeding Habitat (Woodland)Waterfowl Nesting AreaWood Thrush Habitat	Riverine wetland – hydrological connection to Salmon River and by association Pennell’s Creek PSW and several unevaluated wetlands	0 m
96	Yes Boundary Revised	40.84	16.3 m to unevaluated wetland beyond 50 m of the Project Location	Broad-leaved Cattail, Green Ash, Swamp Maple	Cattail Mineral Meadow Marsh (MAMM1-2)	H: Deciduous Trees Re: Robust Emergent	<ul style="list-style-type: none">Generalized Candidate Significant Wildlife HabitatColonially Nesting Bird Breeding Habitat (Ground)Amphibian Breeding Habitat (Woodland)Marsh Breeding Bird Habitat (general)Waterfowl Nesting AreaWood Thrush Habitat	Riverine – connected by the Salmon River to other wetlands downstream	0 m

¹: Size of the wetland unit corresponds to the polygon delineated as part of this Project only and is not intended to represent the size of a previously identified provincially significant wetland complex.

²: The types of wildlife habitat listed in the “Associated Candidate Wildlife Habitat” column will be evaluated for significance in the *NHA Evaluation of Significance Report*. It should be noted that where associated candidate wildlife habitat is identified in association with a wetland unit, the area of wildlife habitat may extend beyond the boundaries of the delineated wetland. For more information about wildlife habitat, please refer to **Table 9** in **Section 7.2.4**.

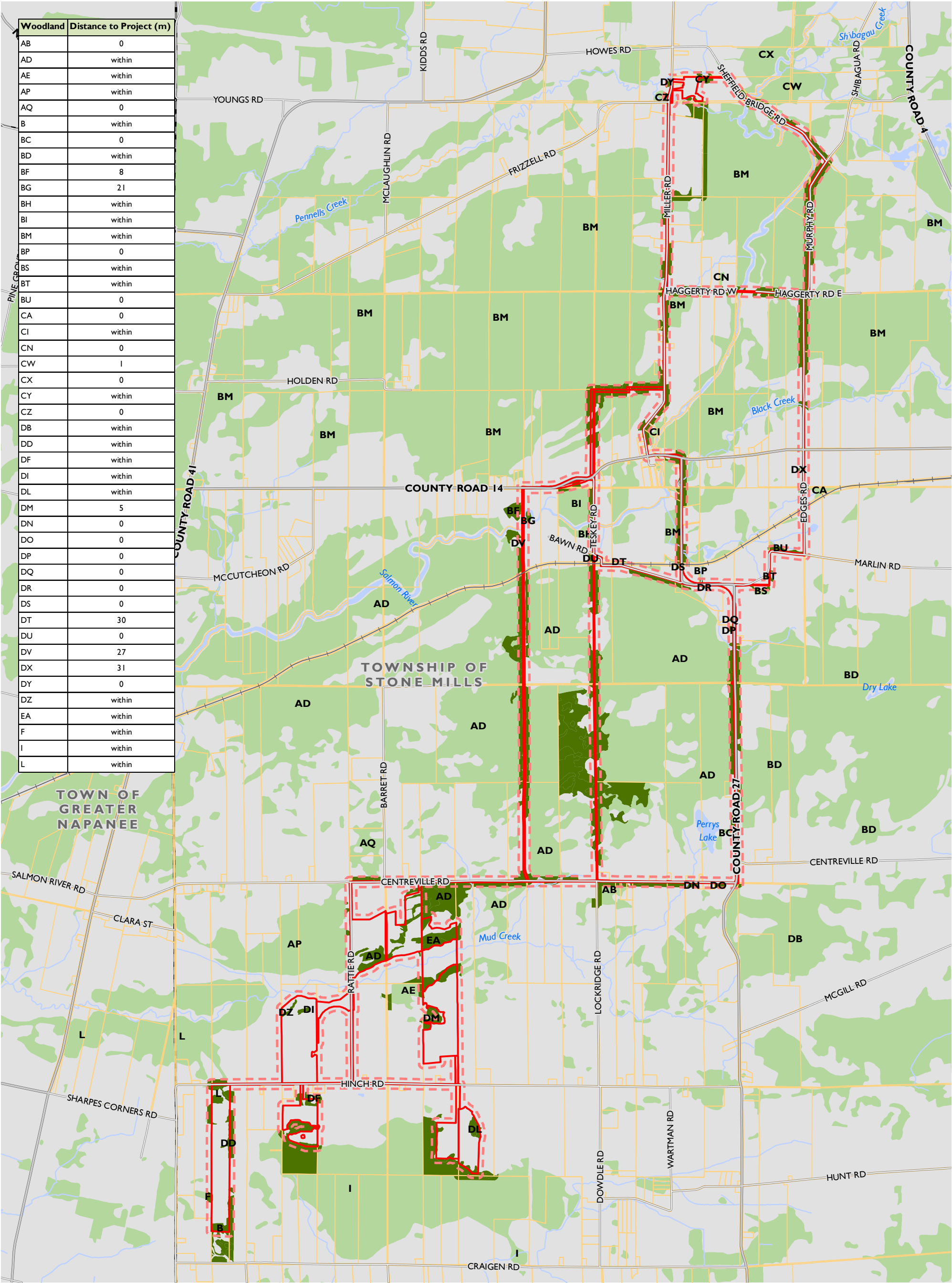


7.2.3 Woodlands

As detailed in the *NHA Records Review Report*, a search and analysis of the records and resources identified woodlands within the Project Location and within 50 m of the Project Location. The focus of the woodlands site investigation was to document the boundaries of woodland features identified during the records review (**Figure 3**) and to determine if additional woodland features were present.

The boundaries of all woodlands identified are shown on **Figure 6** as well as their respective nearest distance to the defined Project Location boundary (see table included on **Figure 6**). The boundaries depicted on **Figure 6** are the result of field investigations by qualified individuals (see **Table 4**) to delineate the dripline of woodlands applicable to the Project Location.

Table 8 also outlines the attributes, composition and function of the woodlands within the Project Location and/or surrounding 50 m confirms if the woodland was included in the records review or was identified as a result of site investigations. Supplementary mapping in support of the woodland description is available in **Appendix D, Figure D2**. This includes mapping of the full extent of the woodlands that occur within the Project Location and/or within 50 m of the Project Location and includes the area of woodland interior. Amendments to the *NHA Records Review* are outlined in **Section 8**.



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

WOODLANDS

FIGURE 6

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Parcel Boundary

Municipal Boundary

Mapped Watercourse

Mapped Water Body

Dillon Delineated Woodland

Woodland

MAP CREATED BY: GM

MAP CHECKED BY: JP

DATA PROVIDED BY: MNRF

MAP PROJECTION: NAD 1983 UTM Zone 18N

1:40,000

0

0.5

1

2 km

W

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E

S

PROJECT: 163674

STATUS: DRAFT

DATE: 10/24/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 6 Woodlands.mxd

Table 8: Summary of Woodlands within the Project Location and surrounding 50 m

Woodland ID	Identified During Records Review?	Attributes				Composition		Function		
		Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
AB	Yes Boundary Revised	14.16	0	0	0	This woodland area is composed of the following ELC communities; Dry-fresh Sugar Maple-Black Cherry Deciduous Forest Type (FODM5-7).	None	None	Woodland AB is adjacent to AD.	None Note: Woodland AB and AD are separated by a gap of > 20 m (Centreville Road) and are therefore considered separate woodlands.
AD	Yes Boundary Revised	1131.19	17.10	463.82	151.97	This woodland area is composed of the following ELC communities; 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 (FODM4-4); Dry-Fresh White Cedar-Hardwood Mixed Forest Type (FOMM4-3); Dry-fresh Red Cedar Coniferous Forest Type (FOCM2-1).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland.	Woodland is adjacent to: Perry's Lake; Salmon River Tributary; Mud Creek PSW; and Roblin Swamp.	Woodland AD is large and provides direct connectivity to multiple Woodlands as well as Mud Creek PSW and Roblin's Swamp.	Interior habitat is present that may provide breeding habitat for area sensitive forest birds. Note: less than 20 m gap in canopy occurs where the woodland is bisected by Centreville Road and railways.
AE	Yes	21.59	3.28	0.05	0	This woodland area is composed of the following ELC communities; 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);	Woodland contains unevaluated wetland. Woodland contains Dillon delineated wetland. Woodland is directly adjacent to Mud Creek PSW.	As shown on Figure 6 , the PSW (Mud Creek Swamp) that borders the northern edge of the Woodland may provide fish habitat.	Woodland AE is adjacent to DM.	None
AP	Yes	83.92	0.03	34.25	10.27	This woodland area is composed of the following ELC communities; Dry-Fresh Poplar Mixed Forest Type (FOMM5-2).	Woodland is adjacent to Mud Creek PSW.	As shown on Figure 6 , the PSW (Mud Creek PSW) that borders the southern edge of the Woodland may provide fish habitat.	Woodland AP is large and provides direct connectivity to other woodlands to west as well as the Mud Creek PSW.	Interior habitat is present that may provide breeding habitat for area sensitive forest birds.

Woodland ID	Identified During Records Review?	Attributes				Composition		Function		
		Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
AQ	Yes	15.31	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Poplar Mixed Forest Type (FOMM5-2).	None	None	None	None Note: Woodland AP and AQ are separated by a gap of > 20 m (Centreville Road) and are therefore considered separate woodlands.
B	Yes Boundary Revised	10.38	6.54	0	0	This woodland area is composed of the following ELC communities: 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).	Woodland contains Dillon delineated wetland.	None	None	None
BC	Yes Boundary Revised	2.34	0	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland is adjacent to Perry's Lake.	As shown on Figure 6 , the Woodland is adjacent to Perrys Lake which may provide fish habitat.	Woodland BC is adjacent to Woodland BD (separated by County Road 27)& AD.	None Note: Woodland BC and BD as well as AD are separated by a gap of > 20 m and are therefore considered separate woodlands.
BD	Yes Boundary Revised	539.45	3.15	247.84	96.44	This woodland area is composed of the following ELC communities; 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).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland. Woodland contains Dry Lake	As shown on Figure 6 , the Woodland contains Dry Lake as well as a Salmon River Tributary which may provide fish habitat.	Woodland BD is adjacent to Woodland AD, separated by County Road 27.	Interior habitat is present that may provide breeding habitat for area sensitive forest birds. Note: Woodland BD And AD are separated by a gap of > 20 m (County Road 27) and are therefore considered separate woodlands.
BF	Yes; Boundary Revised	2.63	0	0	0	This woodland is comprised of the following ELC communities; Swamp Maple Mineral Deciduous Swamp (SWDM3-3).	Woodland contains unevaluated wetlands. Woodland is adjacent to Salmon River.	As shown on Figure 6 , the Woodland is adjacent to the Salmon River.	Woodland BF is adjacent Woodland BG.	Note: Woodland BF and BG are separated by a gap of > 20 m and are therefore considered separate woodlands.
BG	Yes	0.07	0	0	0	This woodland area is composed of the following ELC communities; Swamp Maple Mineral Deciduous Swamp (SWDM3-3).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland. Woodland is adjacent to Roblin Swamp.	As shown on Figure 6 , the Woodland is adjacent to the Salmon River.	Woodland BG provides direct connectivity to multiple Woodlands.	Note: Woodland BG and DV are separated by a gap of > 20 m and are therefore considered separate woodlands.

Woodland ID	Identified During Records Review?	Attributes				Composition		Function		
		Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
BH	Yes	3.88	0.47	0	0	This woodland area is composed of the following ELC communities; Green Ash Mineral Deciduous Swamp (SWDM2-2).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland.	As shown on Figure 6 , the Woodland borders the Salmon River which provides fish habitat.	Woodland is adjacent to BI.	Note: Woodland BH and BI are separated by a gap of > 20 m (Salmon River) and are therefore considered separate woodlands.
BI	YES	15.08	0.47	0	0	This woodland area is composed of the following ELC communities; Green Ash Mineral Deciduous Swamp (SWDM2-2).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland.	As shown on Figure 6 , the Woodland borders Salmon River which provides fish habitat.	Woodland is adjacent to BH.	Note: Woodland BH and BI are separated by a gap of > 20 m (Salmon River) and are therefore considered separate woodlands.
BM	Yes Boundary Revised	1774.24	5.01	893.57	498.88	This woodland area is composed of the following ELC communities; Dry-Fresh White Pine-Hardwood Mixed Forest Type (FOMM2-3); Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2); Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5); Dry-Fresh White Cedar-Hardwood Mixed 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 Coniferous Forest Type (FOCM4-1); Green Ash Mineral Deciduous Swamp (SWDM2-2); Fresh-moist Poplar Deciduous Forest (FODM8-1); Swamp Maple Mineral Deciduous Swamp (SWDM3-3); Coniferous Forest (FOC); Dry-Fresh Sugar Maple-Beech Deciduous Forest Type (FODM5-2); Dry-Fresh White Ash-Hardwood Deciduous Forest Type (FODM4-2); Fresh - Moist Lowland Deciduous Forest (FODM7).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland. Woodland is adjacent to Pennell's Creek PSW and Biddy's Lake PSW.	As shown on Figure 6 , the woodland is directly associated with (i.e., the river and creek run through the woodland) both the Salmon River and Black Creek. Woodland is adjacent to Pennell's Creek PSW and Biddy's Lake PSW.	None	Note: Woodland BM and CN, CI as well as DS are separated by a gap of > 20 m and are therefore considered separate woodlands. Note: less than 20 m gaps in the canopy occur where the woodland is bisected by Miller Road, Murphy Road, Sheffield Bridge Road, Haggerty Road East and West, and Edges Road.
BP	Yes	0.81	0	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	As shown on Figure 6 , the watercourse (Salmon River Tributary) that bisects the woodland may provide fish habitat.	Woodland is adjacent to AD, DR & DS.	Note: Woodland BP and AD, DR as well as DS are separated by a gap of > 20 m (Country Road 27) and are therefore considered separate woodlands.
BS	Yes	1.29	0.03	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland contains Dillon delineated wetland. Woodland contains unevaluated wetlands.	As shown on Figure 6 , the watercourse (Salmon River Tributary) that bisects the woodland may provide fish habitat.	Woodland is adjacent to BT.	Note: Woodland BS and BT are separated by a gap of > 20 m and are therefore considered separate woodlands.

Woodland ID	Identified During Records Review?	Attributes				Composition		Function		
		Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
BT	Yes	0.53	0.04	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland.	As shown on Figure 6 , the watercourse (Salmon River Tributary) that bisects the woodland may provide fish habitat.	Woodland is adjacent to BS.	Note: Woodland BS and BT are separated by a gap of > 20 m and are therefore considered separate woodlands.
BU	Yes	1.65	0	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland.	As shown on Figure 6 , the watercourse that is within 30m of the Salmon River Tributary may provide fish habitat.	None	None
CA	Yes	2.63	0	0	0	This woodland area is composed of the following ELC communities; Green Ash Mineral Deciduous Swamp (SWDM2-2).	Woodland contains unevaluated wetlands.	As shown on Figure 6 , the watercourse that is within 30m of the Salmon River Tributary may provide fish habitat.	None	None
CI	Yes	4.21	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	None	As shown on Figure 6 , the watercourse (Salmon River Tributary) that borders the woodland may provide fish habitat.	Woodland is adjacent to BM	Note: Woodland CI and BM are separated by a gap of > 20 m (Salmon River) and are therefore considered separate woodlands.
CN	Yes	0.89	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	None	None	Woodland is adjacent to Woodland BM.	Note: Woodland CN and BM are separated by a gap of > 20 m (Haggerty Road) and are therefore considered separate woodlands.
CW	Yes	38.21	0.18	7.85	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland contains unevaluated wetlands.	As shown on Figure 6 , the watercourse that bisects the Woodland (Shibagu Creek) may provide fish habitat	Woodland provides linkages to Pennell's Creek PSW Biddy's Lake PSW. Woodland is adjacent to Woodland CX.	Interior habitat is present that may provide breeding habitat for area sensitive forest birds. Note: Woodland CX and CW are separated by a gap of > 20 m and are therefore considered separate woodlands.
CX	Yes	72.95	0.02	4.17	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	As shown on Figure 6 , the watercourse that bisects the Woodland (Shibagau Creek) may provide fish habitat	Woodland provides linkages to Pennell's Creek PSW and Biddy's Lake PSW. Woodland is adjacent to Woodland CW.	Interior habitat is present that may provide breeding habitat for area sensitive forest birds. Note: Woodland CX and CW are separated by a gap of > 20 m and are therefore considered separate woodlands.

Woodland ID	Identified During Records Review?	Attributes				Composition		Function		
		Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
CY	Yes	1.49	0.38	0	0	This woodland area is composed of the following ELC communities; Black Ash Mineral Deciduous Swamp (SWDM2-1).	Woodland contains Dillon delineated wetland. Woodland is adjacent to the Pennell's Creek PSW.	As shown on Figure 6 , the watercourse that bisects the Woodland (Pennell's Creek) may provide fish habitat	Woodland provides linkages to Pennell's Creek PSW.	None
CZ	Yes	1.57	0	0	0	This woodland area is composed of the following ELC communities; Green Ash Mineral Deciduous Swamp (SWDM2-2); Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2)	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland. Woodland is adjacent to the Pennell's Creek PSW.	As shown on Figure 6 , the watercourse (Pennell's Creek) borders the north, south and west edges of the woodland may provide fish habitat	Woodland provides linkages to Pennell's Creek PSW.	None
DB	Yes	101.41	0.02	32.81	9.37	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	None	None	Interior habitat is present that may provide breeding habitat for area sensitive forest birds.
DD	No	3.86	1.20	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	None	None	None
DF	No	2.64	1.12	0	0	This woodland area is composed of the following ELC communities; Fresh-moist White Cedar Coniferous Forest Ecosite (FOCM4).	None	None	None	None
DI	No	0.62	0.62	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Poplar Mixed Forest Type (FOMM5-2).	None	None	Woodland provides a linkage to Mud Creek PSW. Woodland provides a linkage to Hinch Swamp Complex.	None
DL	No	2.15	2.04	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh White Pine-Hardwood Mixed Forest Type (FOMM2-3); Dry-Fresh Poplar Deciduous Forest Type (FODM3-1).	None	None	Woodland can provide indirect connectivity to Hinch Swamp PSW.	None
DM	No	3.06	2.85	0	0	This woodland area is composed of the following ELC communities; Green Ash Mineral Deciduous Swamp (SWDM2-2).	Woodland contains Dillon delineated wetland.	None	Woodland provides a linkage to Mud Creek PSW.	None
DN	No	0.54	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Red Cedar Coniferous Woodland (WOCM1-1).	None	Woodland are adjacent to Mud Creek tributary and Perrys Lake.	Woodland is adjacent to DO.	Bound on north by Centreville Road.

Woodland ID	Identified During Records Review?	Attributes				Composition		Function		
		Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
DO	No	0.55	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Red Cedar Coniferous Woodland (WOCM1-1).	None	None	Woodland is adjacent to DN	Bound on north by Centreville Road.
DP	No	0.30	0	0	0	This woodland area is composed of the following ELC communities; Fresh-Moist White Cedar Coniferous Forest Type (FOCM4-1).	Woodland contains Dillon delineated wetland.	As shown on Figure 6 , the watercourse (Salmon River Tributary) borders the west edges of the woodland may provide fish habitat	Woodland is adjacent to DQ	Note: Woodland DP and DQ are separated by a gap of > 20 m and are therefore considered separate woodlands.
DQ	No	0.14	0	0	0	This woodland area is composed of the following ELC communities; Mineral Deciduous Swamp Ecosite (SWDM4).	Woodland contains Dillon delineated wetland.	As shown on Figure 6 , the watercourse (Salmon River Tributary) borders the west edges of the woodland may provide fish habitat	Woodland is adjacent to DP	Note: Woodland DP and DQ are separated by a gap of > 20 m and are therefore considered separate woodlands.
DR	No	0.25	0	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	As shown on Figure 6 , the watercourse (Salmon River Tributary) that bisects the woodland may provide fish habitat	Woodland is adjacent to AD	Note: Woodland DR and AD are separated by a gap of > 20 m and are therefore considered separate woodlands.
DS	No	0.19	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh White Pine-Hardwood Mixed Forest Type (FOMM2-3).	None	None	Woodland is adjacent to BM & AD.	Note: Woodland DR and AD as well as BM are separated by a gap of > 20 m and are therefore considered separate woodlands.
DT	No	0.30	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	None	None	Woodland is adjacent to AD	Note: Woodland DT and AD are separated by a gap of > 20 m and are therefore considered separate woodlands.
DU	No	0.44	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	None	As shown on Figure 6 , the watercourse (Salmon River Tributary) is adjacent to the woodland may provide fish habitat	Woodland is adjacent to AD	Note: Woodland DU and AD are separated by a gap of > 20 m and are therefore considered separate woodlands.

Woodland ID	Identified During Records Review?	Attributes				Composition		Function		
		Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
DV	No	0.05	0	0	0	This woodland area is composed of the following ELC communities; Swamp Maple Mineral Deciduous Swamp (SWDM3-3).	Woodland is adjacent to Roblin Swamp PSW. Woodland contains Dillon delineated wetland. Woodland contains unevaluated wetlands.	As shown on Figure 6 , this woodland is situated adjacent to the Salmon River which provides fish habitat	Woodland is adjacent of AD	Note: Woodland DV and AD are separated by a gap of > 20 m and are therefore considered separate woodlands.
DX	No	0.05	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Red Cedar Coniferous Woodland (WOCM1-1).	None	None	None	None
DY	No	0.33	0	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland is adjacent to Pennell's Creek PSW. Woodland contains Dillon delineated wetland. Woodland contains unevaluated wetlands.	As shown on Figure 6 , the watercourse (Pennell's Creek) that borders the woodland may provide fish habitat	Woodland is adjacent to CZ	Note: Woodland DY and CZ are separated by a gap of > 20 m and are therefore considered separate woodlands.
DZ	No	0.69	0.69	0	0	This woodland area is comprised of the following ELC communities; Dry – Fresh Sugar Maple – Hardwood Calcareous Shallow Deciduous Forest Type (FODR1-1)	Woodland is adjacent to Mud Creek PSW.	As shown on Figure 6 , the watercourse (Mud Creek) that is adjacent to the woodland may provide fish habitat.	Woodland is adjacent Woodland DI.	Note: Woodland DZ and DI are separated by a gap >20 m and are therefore considered separate woodlands.
EA	No	7.24	6.26	0	0	This woodland area is compromised of the following ELC communities; Dry-Fresh Ironwood Deciduous Forest (FODR1-1), Dry-Fresh White Cedar-Hardwood Mixed Forest Type (FOMM4-3).	Woodland is adjacent to Mud Creek PSW.	As shown on Figure 6 , the watercourse (Mud Creek) that is adjacent to the woodland may provide fish habitat.	Woodland is adjacent to AD.	Note: Woodland EA and AD are separated by a gap >20 m and are therefore considered separate woodlands.
F	Yes Boundary Revised	1.73	0.15	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	None	None	None	None
L	Yes Boundary Revised	132.37	2.73	29.31	1.58	This woodland area is composed of the following ELC communities; 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).	None	As shown on Figure 6, the PSW (Mud Creek) may provide fish habitat.	None	Interior habitat is present that may provide breeding habitat for area sensitive forest birds.

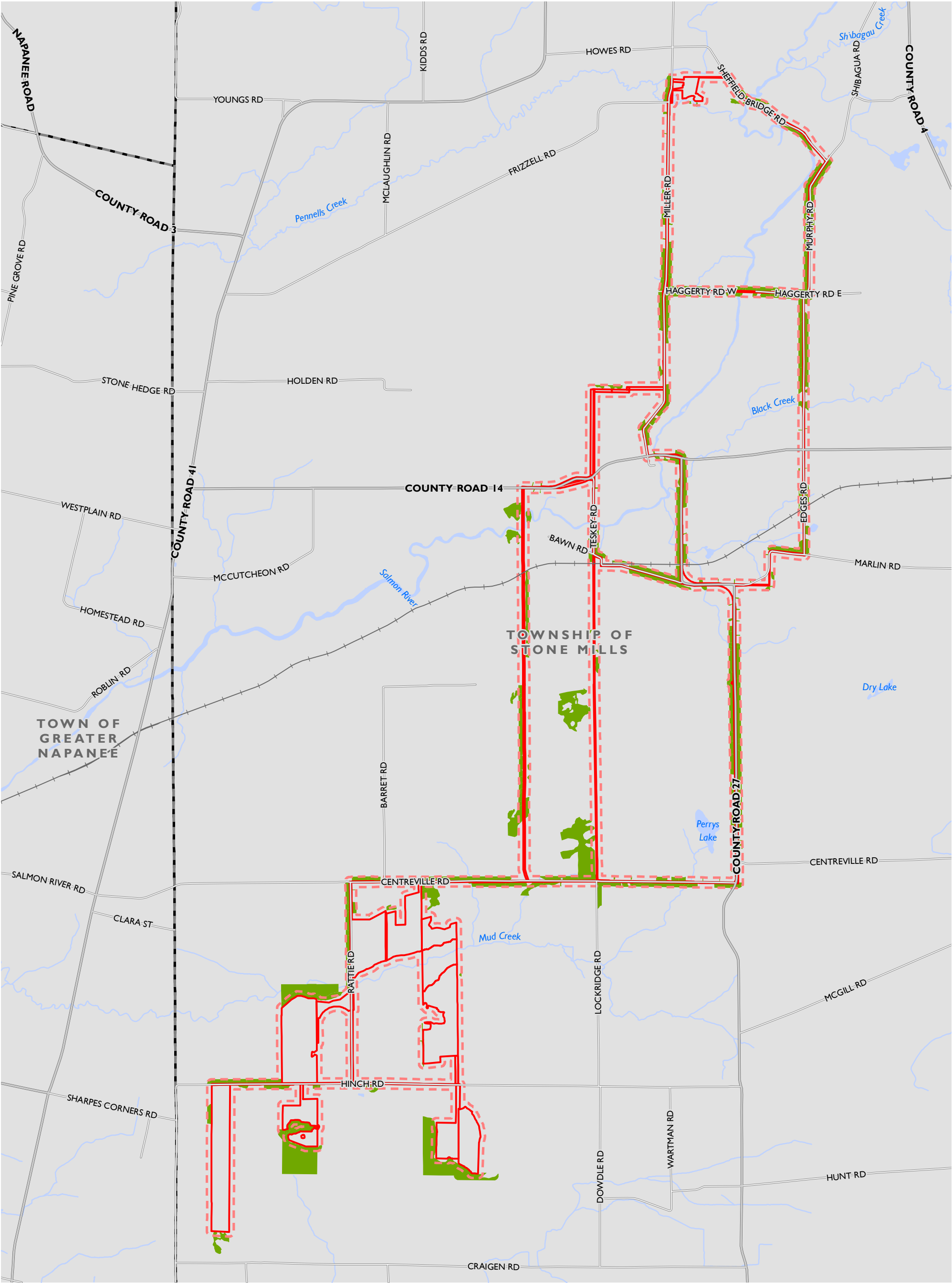
Woodland ID	Identified During Records Review?	Attributes				Composition		Function		
		Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
I	Yes Boundary Revised	261.96	8.14	167.79	98.47	This woodland area is composed of the following ELC communities; Swamp Maple Organic Deciduous Swamp (SWDO2-3); Fresh-moist Oak-Maple-Hickory Deciduous Forest (FODM9); Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2); Fresh-moist Poplar Deciduous Forest (FODM8-1); Dry-Fresh White Cedar Coniferous Forest Ecosite (FOCM2-2).	Hinch Swamp Provincially Significant Wetland (PSW) Complex Woodland contains Dillon delineated wetland.	As shown on Figure 6, the PSW (Hinch Swamp) may provide fish habitat.	Woodland I is large and provides direct connectivity to multiple Woodlands	Interior habitat is present that may provide breeding habitat for area sensitive forest birds. Note: Woodland I & J were originally mapped as separate woodland. However, field investigations determined the woodlot was continuous.

*Size refers to the total size of the woodland area;
**Interior woodland begins 100 m from the woodland edge;
†Interior habitat begins 200 m from the woodland edge. (See Supplemental Woodland mapping in **Appendix D, Figure D2**).

7.2.4 Wildlife Habitat

An overall review of known wildlife habitat that has been identified in the area of the Project Location was completed in the *NHA Records Review Report*. The records review information has been augmented by the results of the site investigation work. The information collected during the site investigation was assessed in consideration of the habitat criteria outlined in Sections 4 to 7 and Appendix M, N, and Q of the Significant Wildlife Habitat Technical Guide (MNRF 2000) and associated Ecoregion Criteria Schedule for wildlife habitat applicable to Ecoregion 6E (MNRF 2015). First approximation ELC community information was used to identify candidate wildlife habitat as outlined in the Ecoregion 6E Criteria Schedule (MNRF 2015). Based on this information and other characteristics of various wildlife habitat types, candidate significant wildlife habitat in the area surrounding the Project Location was identified. For rare vegetation communities that are under consideration as candidate wildlife habitat, it should be noted that ELC community descriptions may differ from the wildlife habitat type. For example, coniferous forests (ELC first approximation description of FOC) are to be reviewed for consideration as candidate alvars. **Table 9** outlines wildlife habitat applicable to Ecoregion 6E and summarizes if it is relevant to the Project Location and/or adjacent area(s). The boundaries and location of each candidate significant wildlife habitat is described in **Table 9** and mapped on **Figures 7A- 7W**.

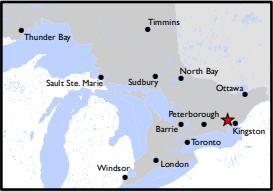
Species of Conservation Concern were identified according to the definition provided in the Significant Wildlife Habitat Technical Guide (MNRF 2000). Species of Conservation Concern with the potential to occur in the general area of the Project Location are discussed in **Table 9** below. Where appropriate, they are discussed in the relevant wildlife habitat type. Reporting related to the protection of Ontario's *Endangered* and *Threatened* Species at Risk is being provided to the appropriate regulatory agency under separate cover.



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

**GENERALIZED CANDIDATE
SIGNIFICANT WILDLIFE
HABITAT**
FIGURE 7

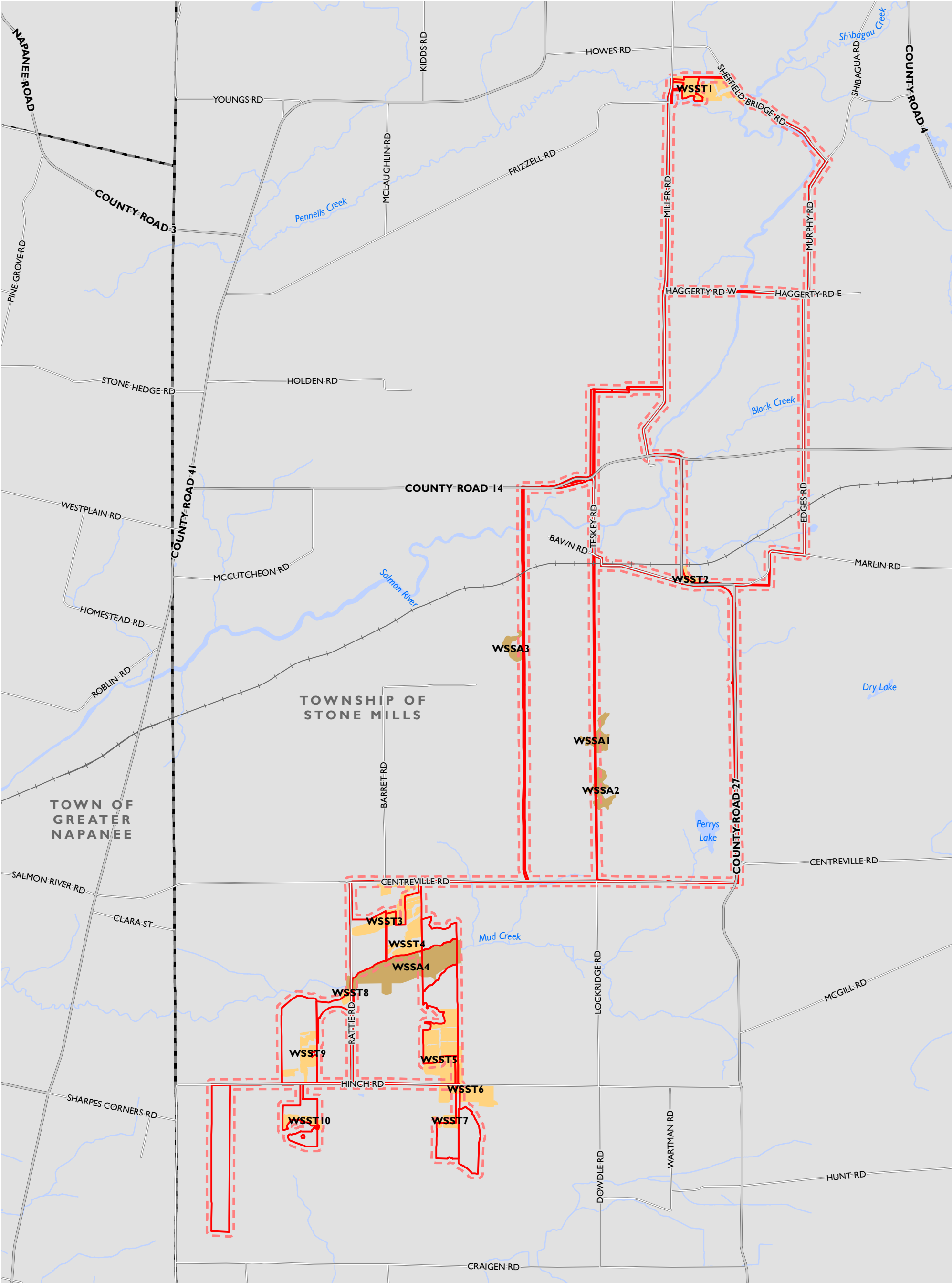
- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Generalized Candidate Significant Wildlife Habitat
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body



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



PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

CANDIDATE

WATERFOWL STOPOVER

AND STAGING AREA

FIGURE 7A

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Waterfowl Stopover and Staging Area (Aquatic) (WSSA)

Waterfowl Stopover and Staging Area (Terrestrial) (WSST)

Municipal Boundary

Mapped Watercourse

Mapped Water Body

All habitat is within the Project Location Boundary.

MAP CREATED BY: GM

MAP CHECKED BY: JP

DATA PROVIDED BY: MNRF

MAP PROJECTION: NAD 1983 UTM Zone 18N

1:40,000

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0.5

1

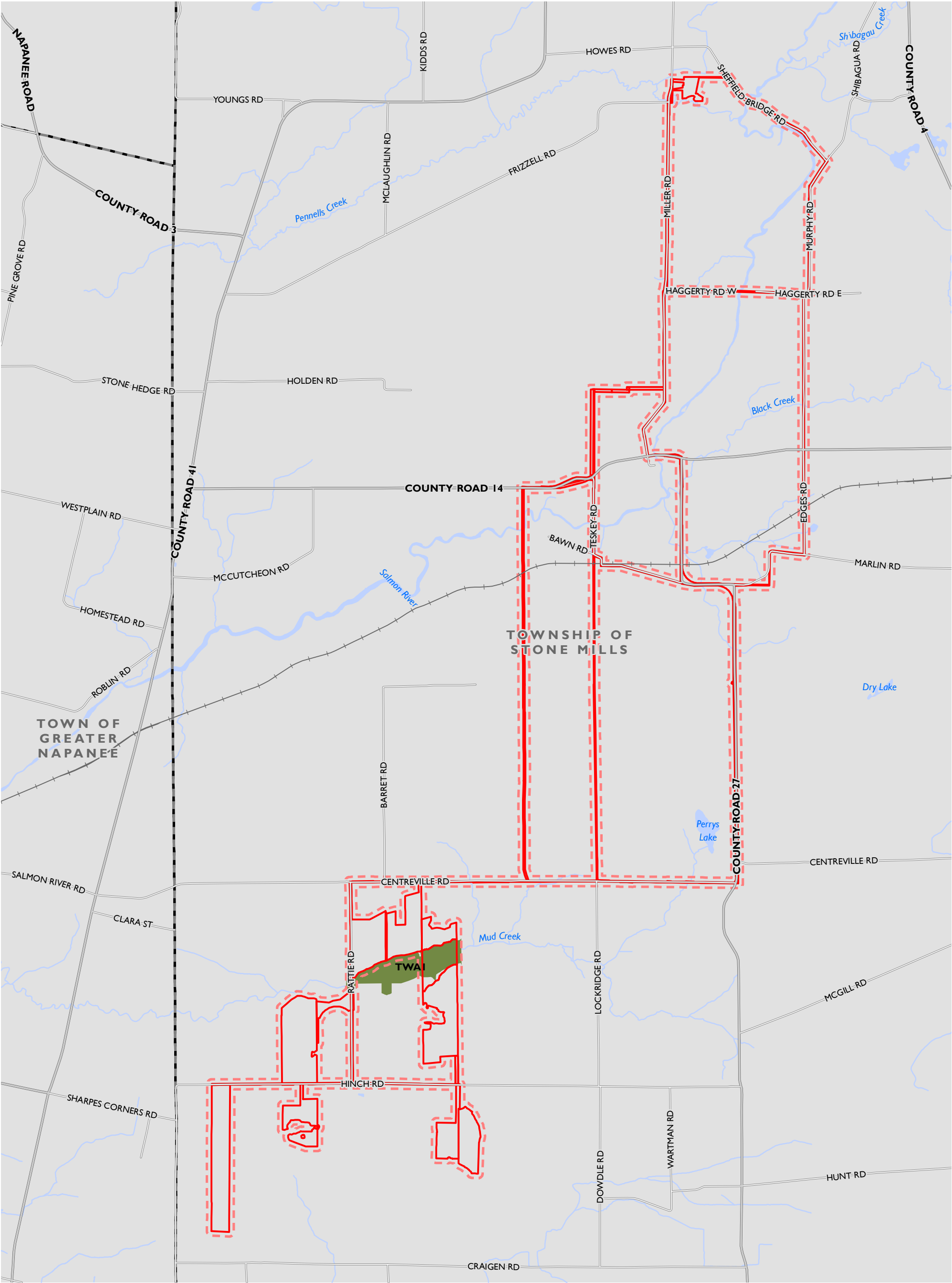
2 km

PROJECT: 163674

STATUS: DRAFT

DATE: 11/24/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 7A Waterfowl Stopover and Staging Area.mxd



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

**CANDIDATE
TURTLE WINTERING AREA**
FIGURE 7B

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Turtle Wintering Area (TWA)
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body

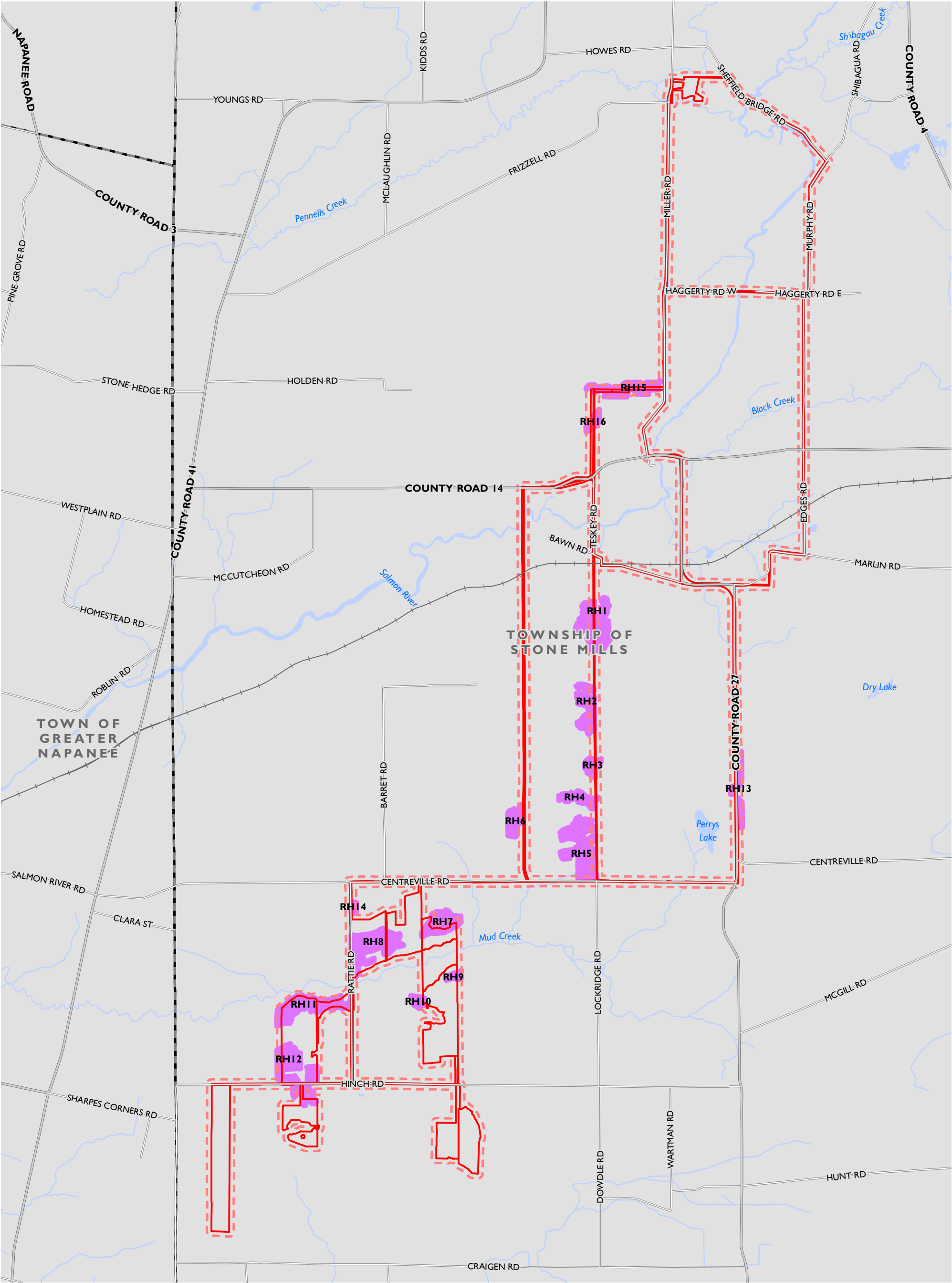
All habitat is within the Project Location Boundary.

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

1:40,000

0 0.5 1 2 km

PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

CANDIDATE
REPTILE HIBERNACULUM
FIGURE 7C

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Municipal Boundary
- Reptile Hibernaculum (RH)
- Mapped Watercourse
- Mapped Water Body

All habitat is within the Project Location Boundary.
All habitat has been buffered 30 m.

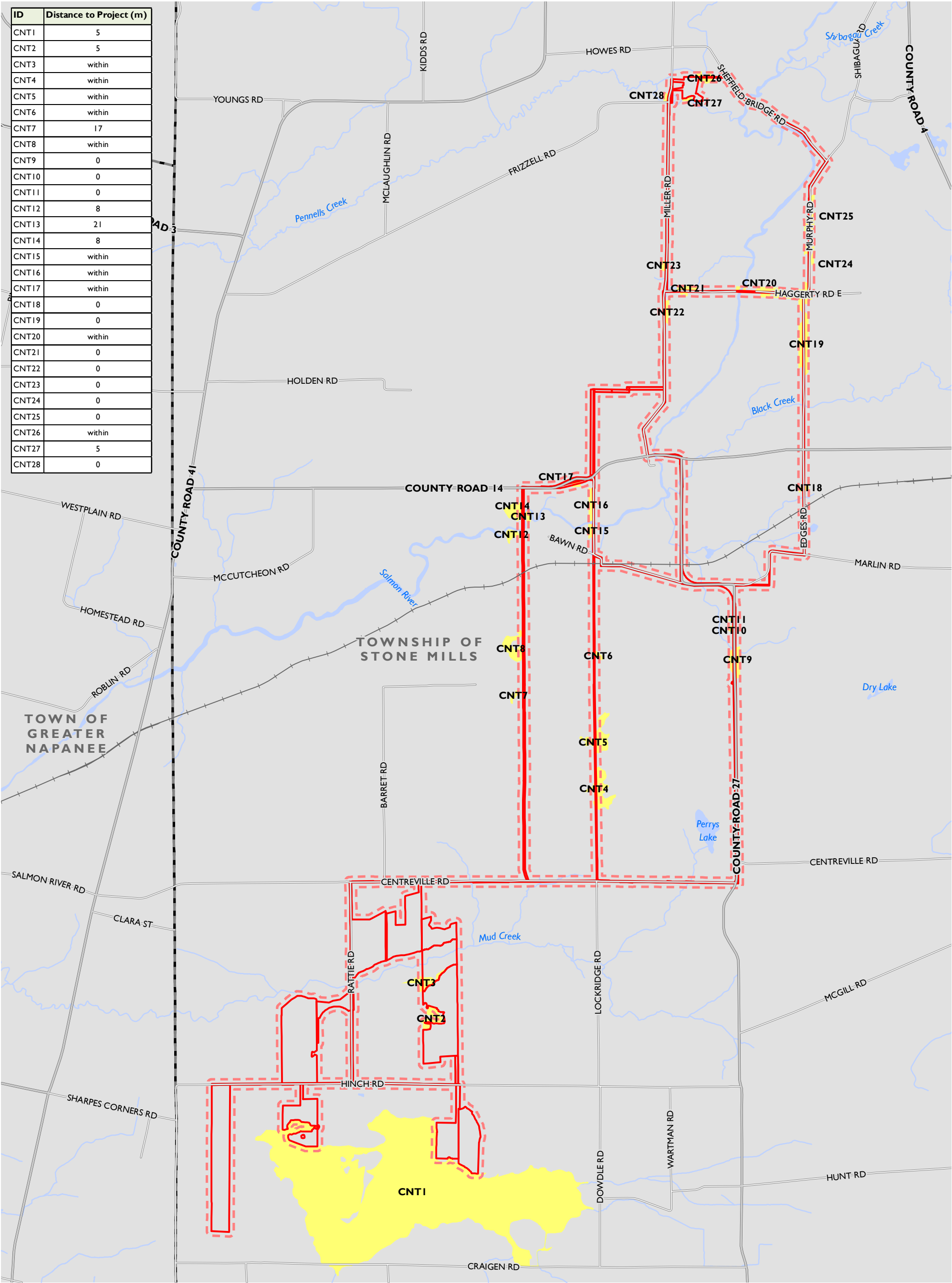


MAP CREATED BY: GM
MAP CHECKED BY: JP
DATA PROVIDED BY: MNRF
MAP PROJECTION: NAD 1983 UTM Zone 18N



PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016

ID	Distance to Project (m)
CNT1	5
CNT2	5
CNT3	within
CNT4	within
CNT5	within
CNT6	within
CNT7	17
CNT8	within
CNT9	0
CNT10	0
CNT11	0
CNT12	8
CNT13	21
CNT14	8
CNT15	within
CNT16	within
CNT17	within
CNT18	0
CNT19	0
CNT20	within
CNT21	0
CNT22	0
CNT23	0
CNT24	0
CNT25	0
CNT26	within
CNT27	5
CNT28	0



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP
**CANDIDATE
COLONIALY NESTING
BIRD BREEDING HABITAT
(TREES/SHRUBS)**
FIGURE 7D

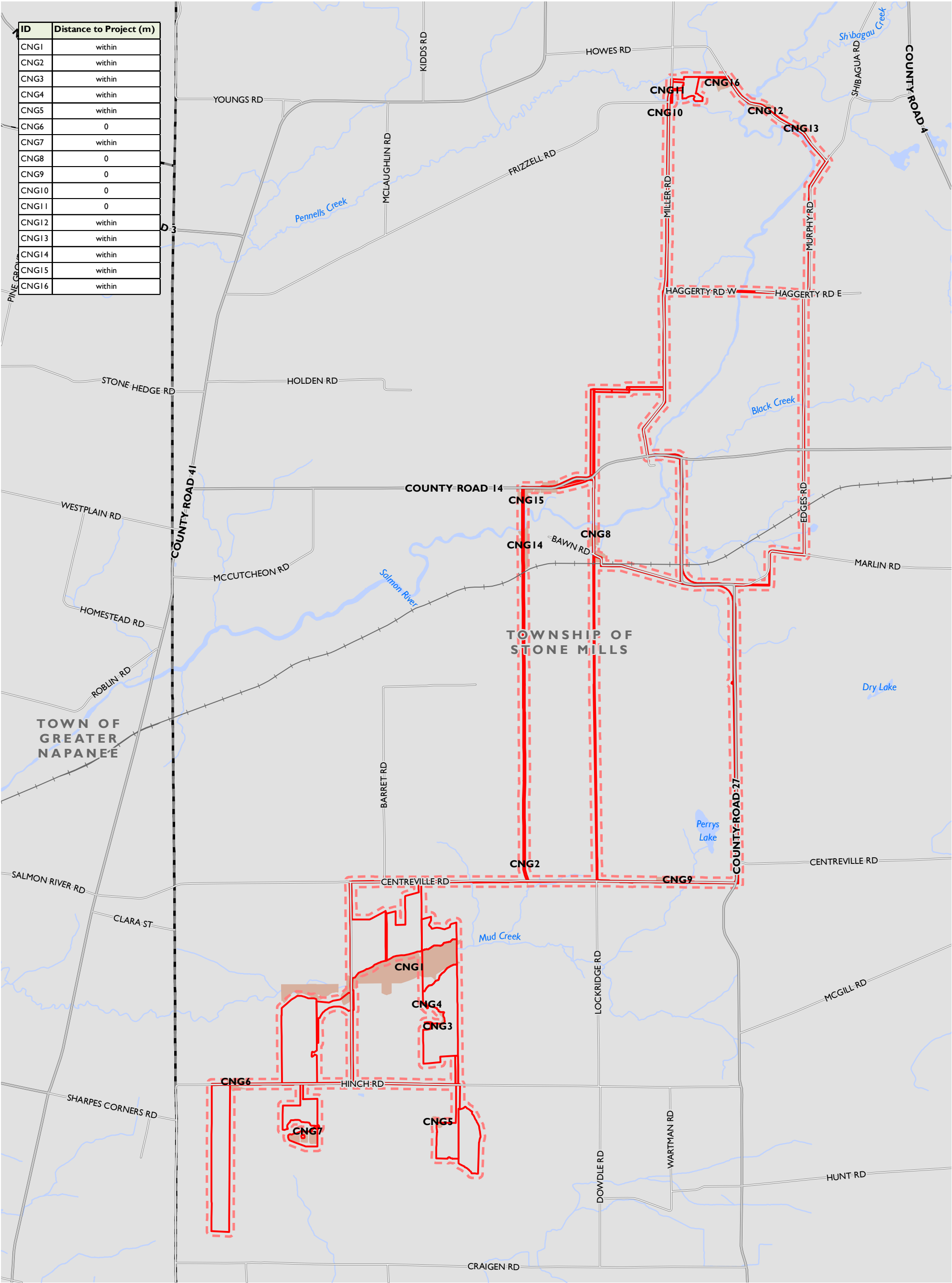
- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Colonially Nesting Bird Breeding Habitat (Trees/Shrubs) (CNT)
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body



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



PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

CANDIDATE COLONIALY NESTING BIRDS (GROUND)

FIGURE 7E

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Colonially Nesting Birds (Ground) (CNG)

Municipal Boundary

Mapped Watercourse

Mapped Water Body

All habitat is within the Project Location Boundary.

MAP CREATED BY: GM

MAP CHECKED BY: JP

DATA PROVIDED BY: MNRF

MAP PROJECTION: NAD 1983 UTM Zone 18N

1:40,000

0

0.5

1

2 km

N

W

E

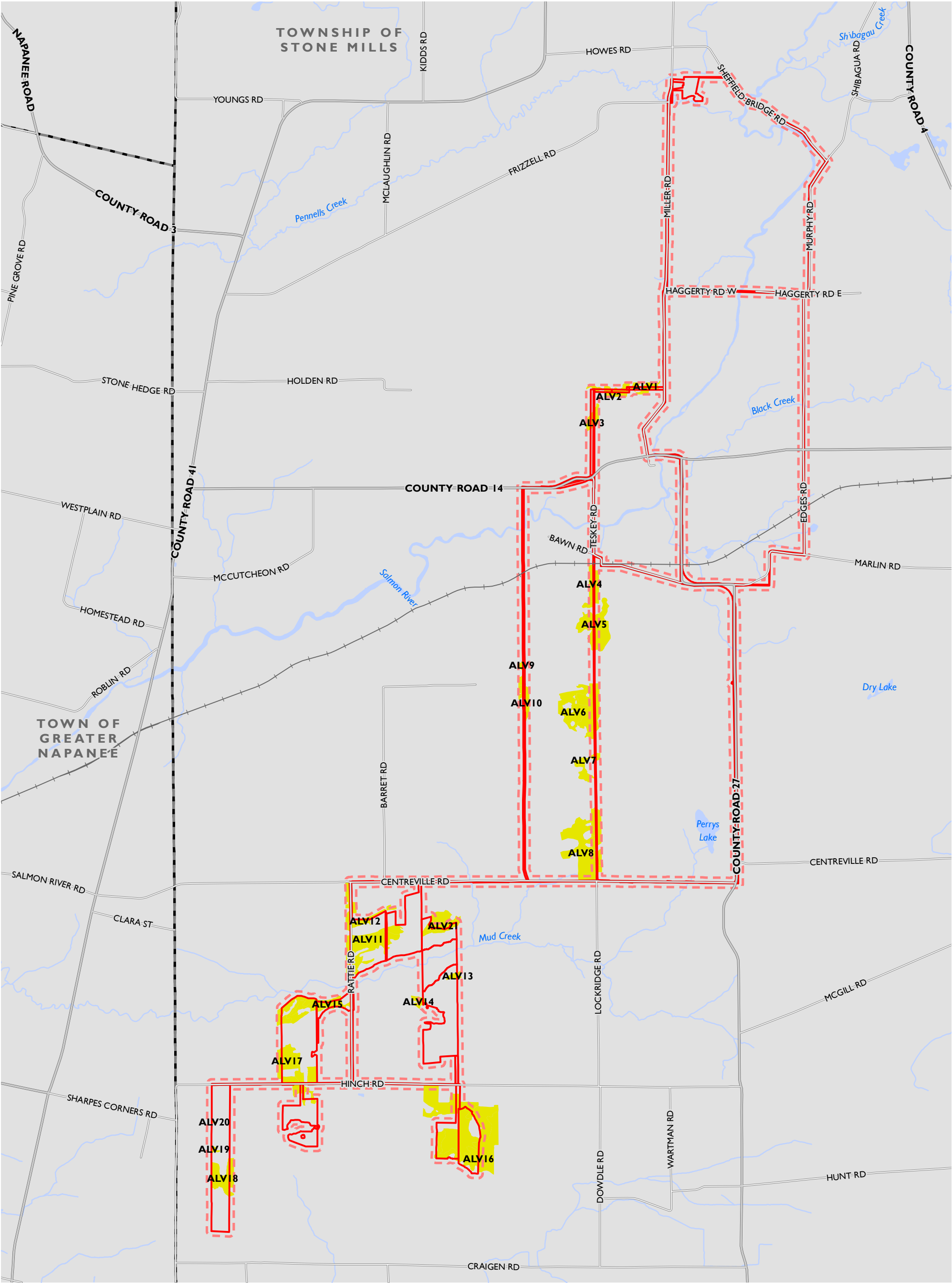
S

PROJECT: 163674

STATUS: DRAFT

DATE: 10/24/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 7E Colonially Nesting Birds (Ground).mxd



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

CANDIDATE

ALVAR

FIGURE 7F

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Alvar (ALV)

Municipal Boundary

Mapped Watercourse

Mapped Water Body

All habitat is within the Project Location Boundary.

MAP CREATED BY: GM

MAP CHECKED BY: JP

DATA PROVIDED BY: MNRF

MAP PROJECTION: NAD 1983 UTM Zone 18N

1:40,000

0

0.5

1

2 km

W

N

E

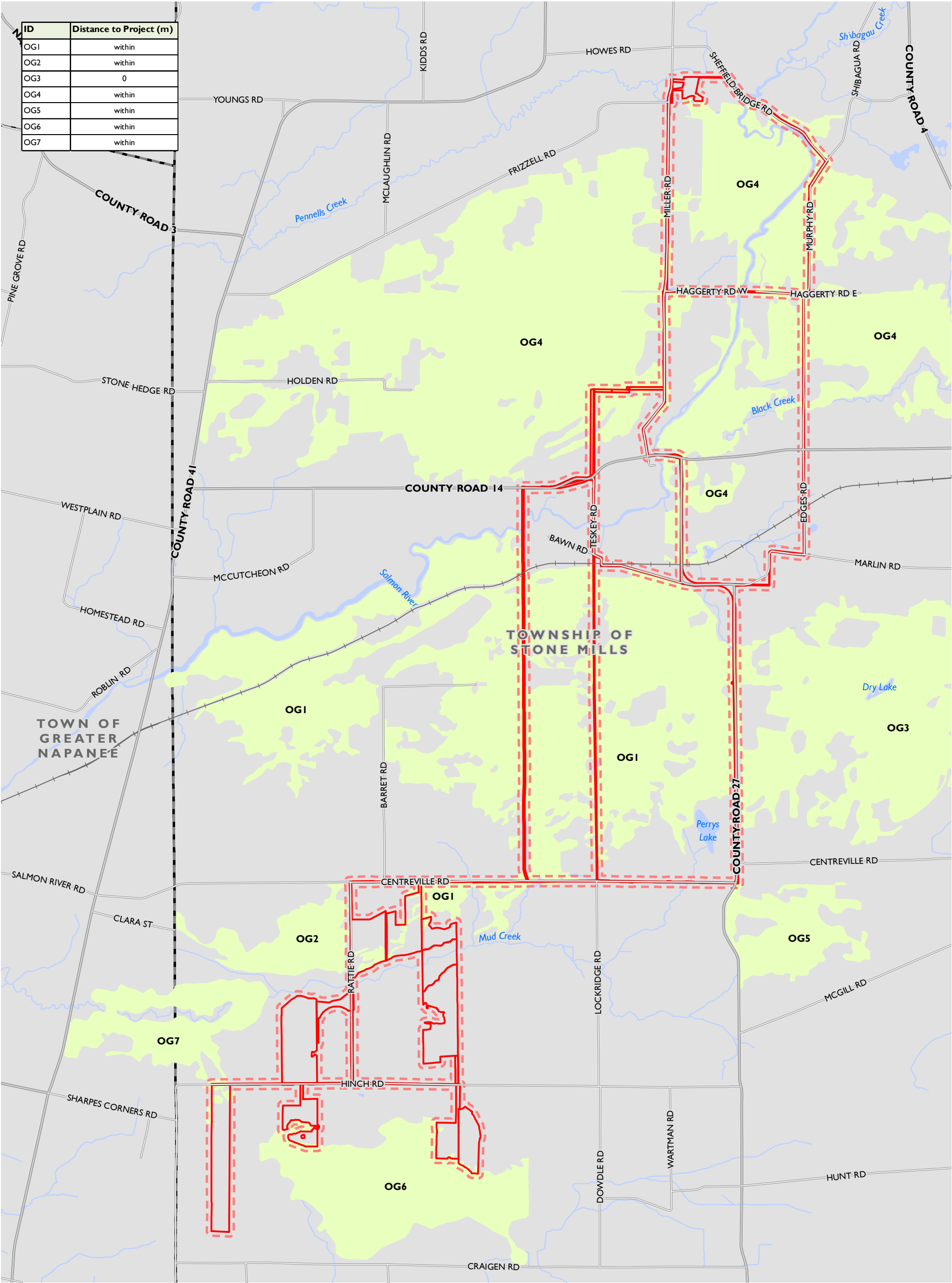
S

PROJECT: 163674

STATUS: DRAFT

DATE: 10/25/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 7F Alvar.mxd



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

CANDIDATE
OLD GROWTH FOREST
FIGURE 7G

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Old Growth Forest (OG)

Municipal Boundary

Mapped Watercourse

Mapped Water Body

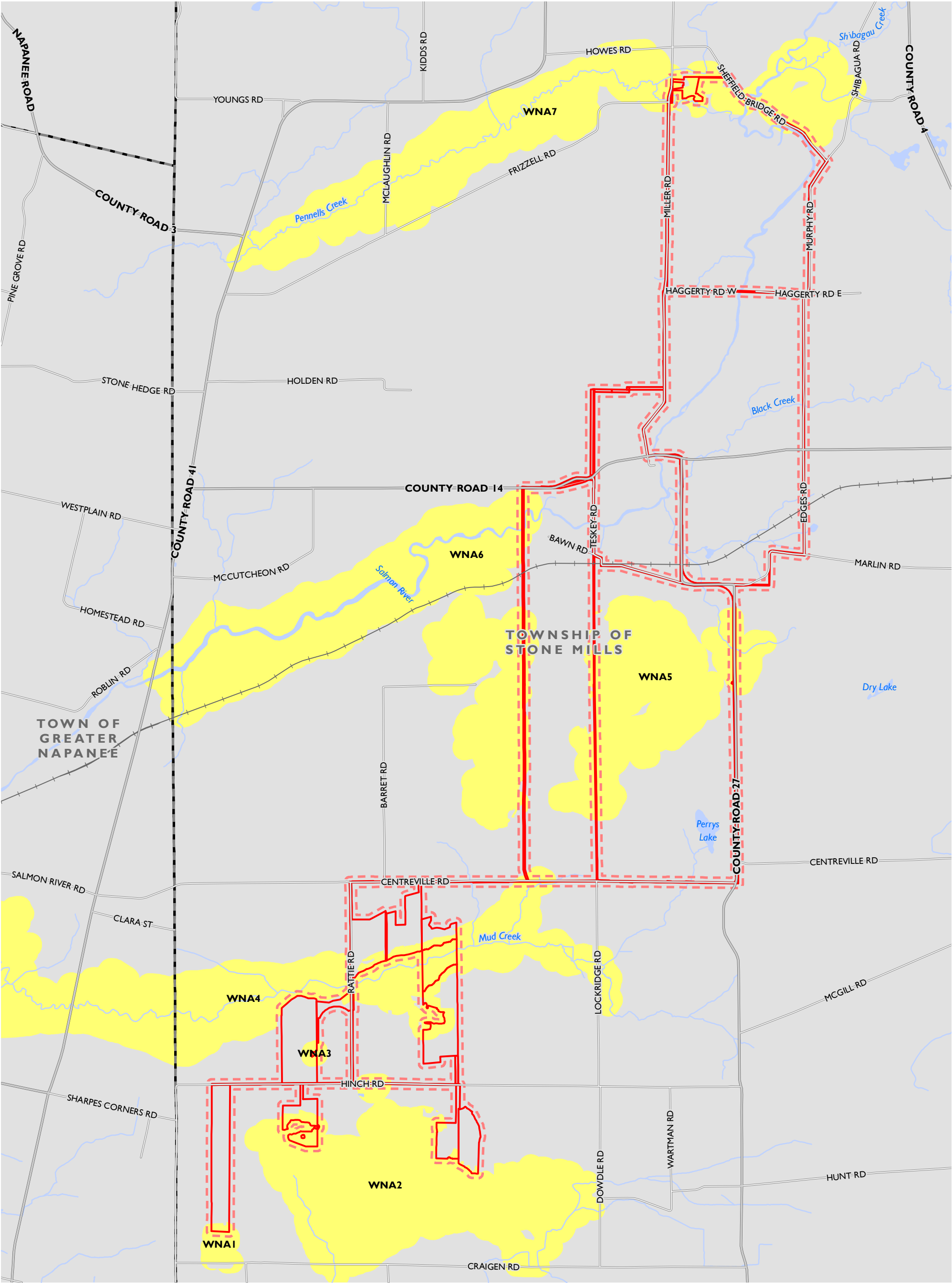
1:40,000

00.512 km

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

PROJECT: 163674 STATUS: DRAFT DATE: 11/29/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 7G Old Growth Forest.mxd



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

CANDIDATE WATERFOWL NESTING AREA

FIGURE 7H

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Municipal Boundary

Mapped Watercourse

Mapped Water Body

Waterfowl Nesting Area (WNA)

All habitat is within the Project Location Boundary.

All habitat is buffered by 120 m.

MAP CREATED BY: GM

MAP CHECKED BY: JP

DATA PROVIDED BY: MNRF

MAP PROJECTION: NAD 1983 UTM Zone 18N

1:40,000

0

0.5

1

2 km

W

N

E

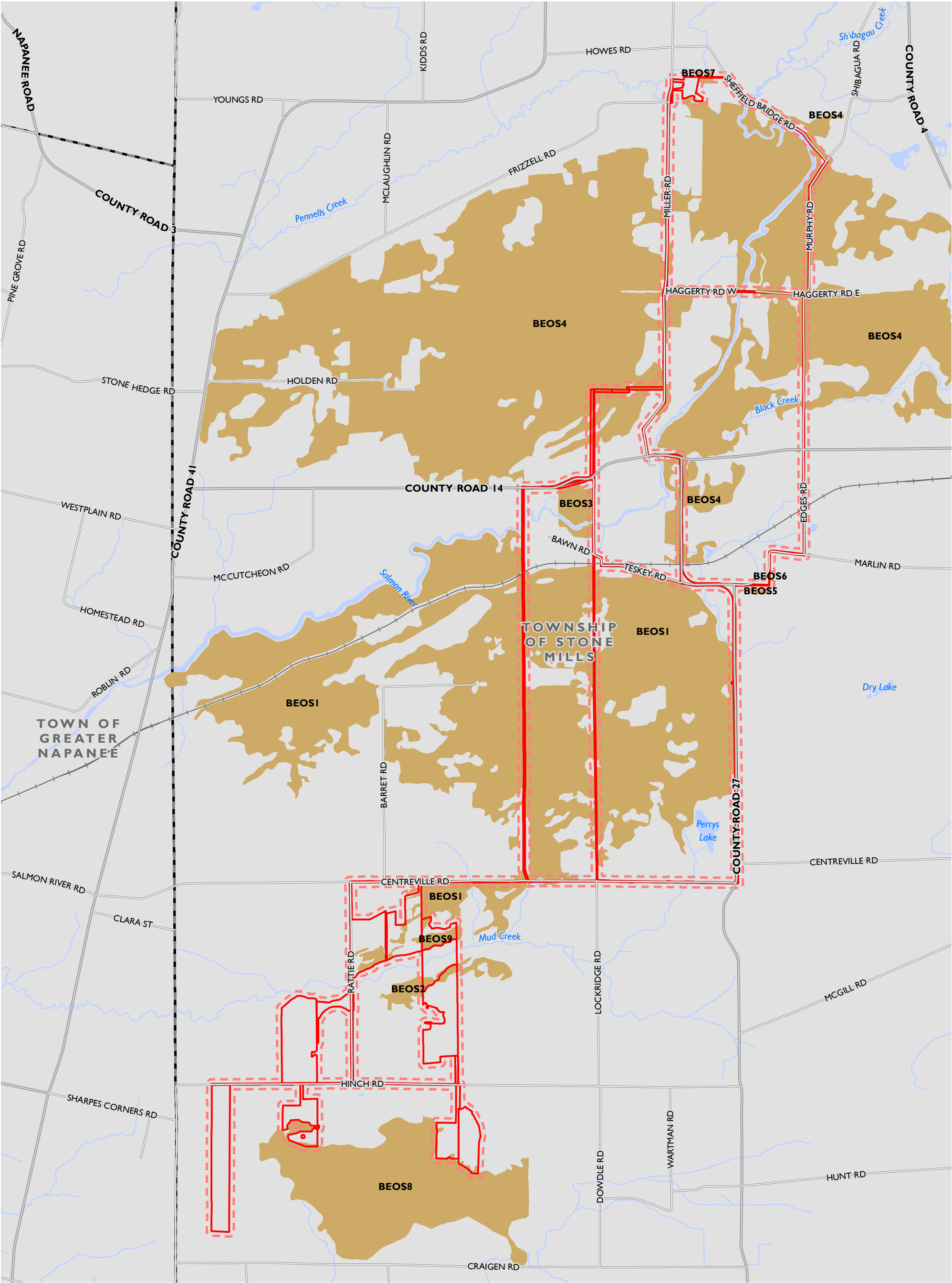
S

PROJECT: 163674

STATUS: DRAFT

DATE: 10/24/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 7H Waterfowl Nesting Area.mxd



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP
**CANDIDATE
BALD EAGLE & OSPREY
NESTING, FORAGING AND
PERCHING HABITAT**
FIGURE 71

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Bald Eagle & Osprey Nesting, Foraging and Perching Habitat (BEOS)
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body

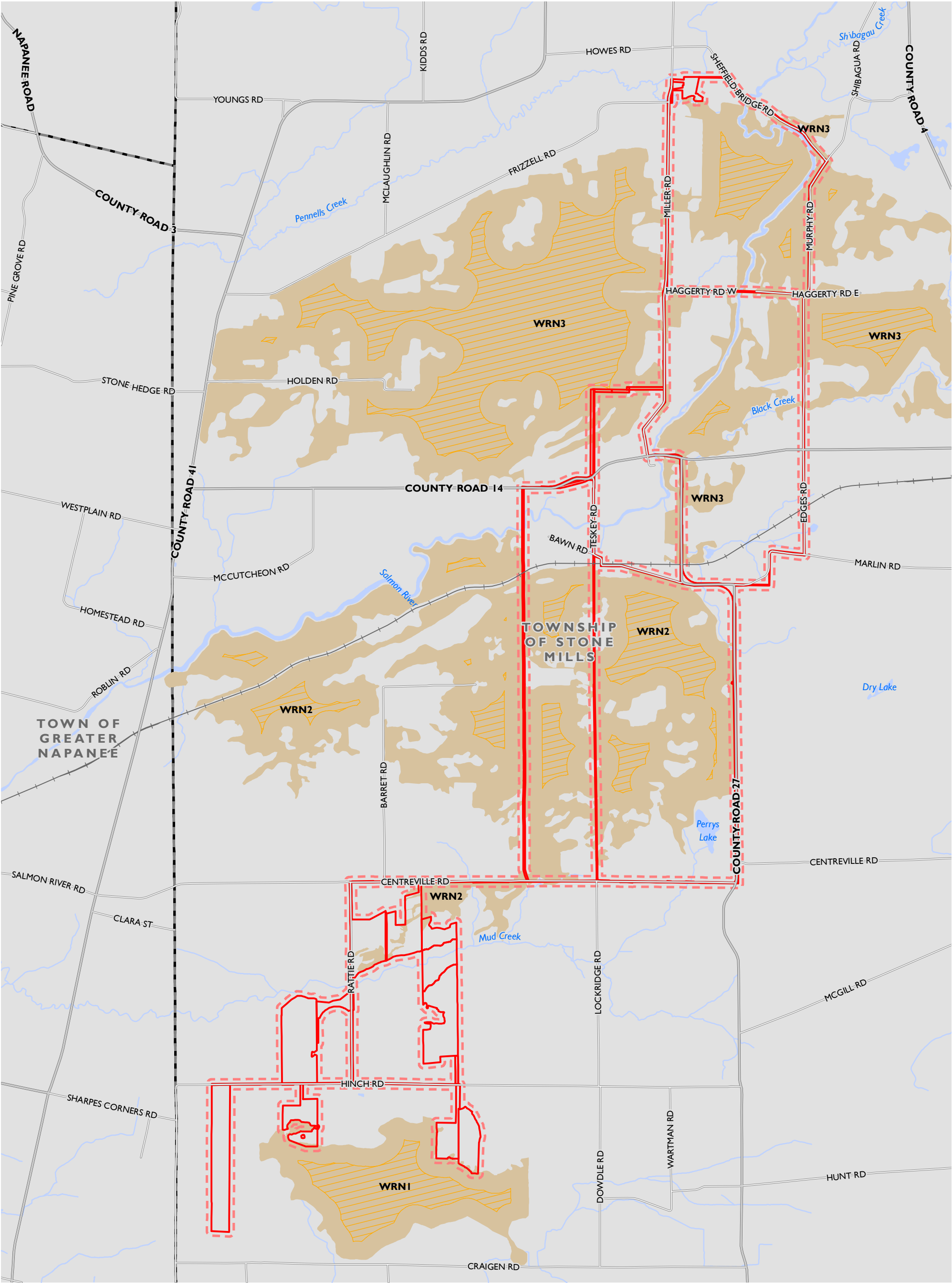
All habitat is within the Project Location Boundary.



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



PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

**CANDIDATE
WOODLAND RAPTOR
NESTING HABITAT**
FIGURE 7J

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- 200 m Woodland Interior
- Woodland Raptor Nesting Habitat (WRN)
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body

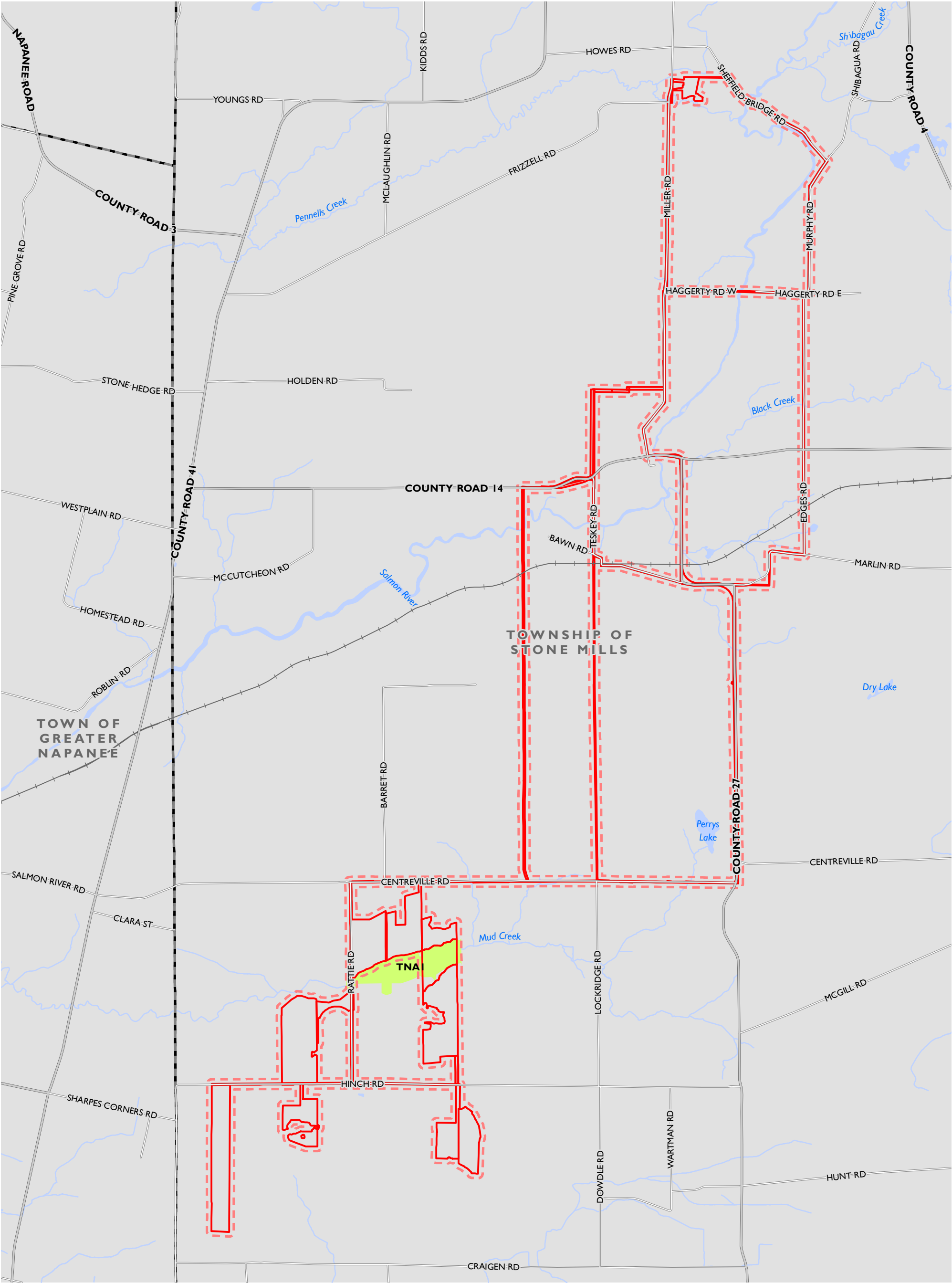
All habitat is within the Project Location Boundary.



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



PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

**CANDIDATE
TURTLE NESTING AREA**
FIGURE 7K

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Turtle Nesting Area (TNA)
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body

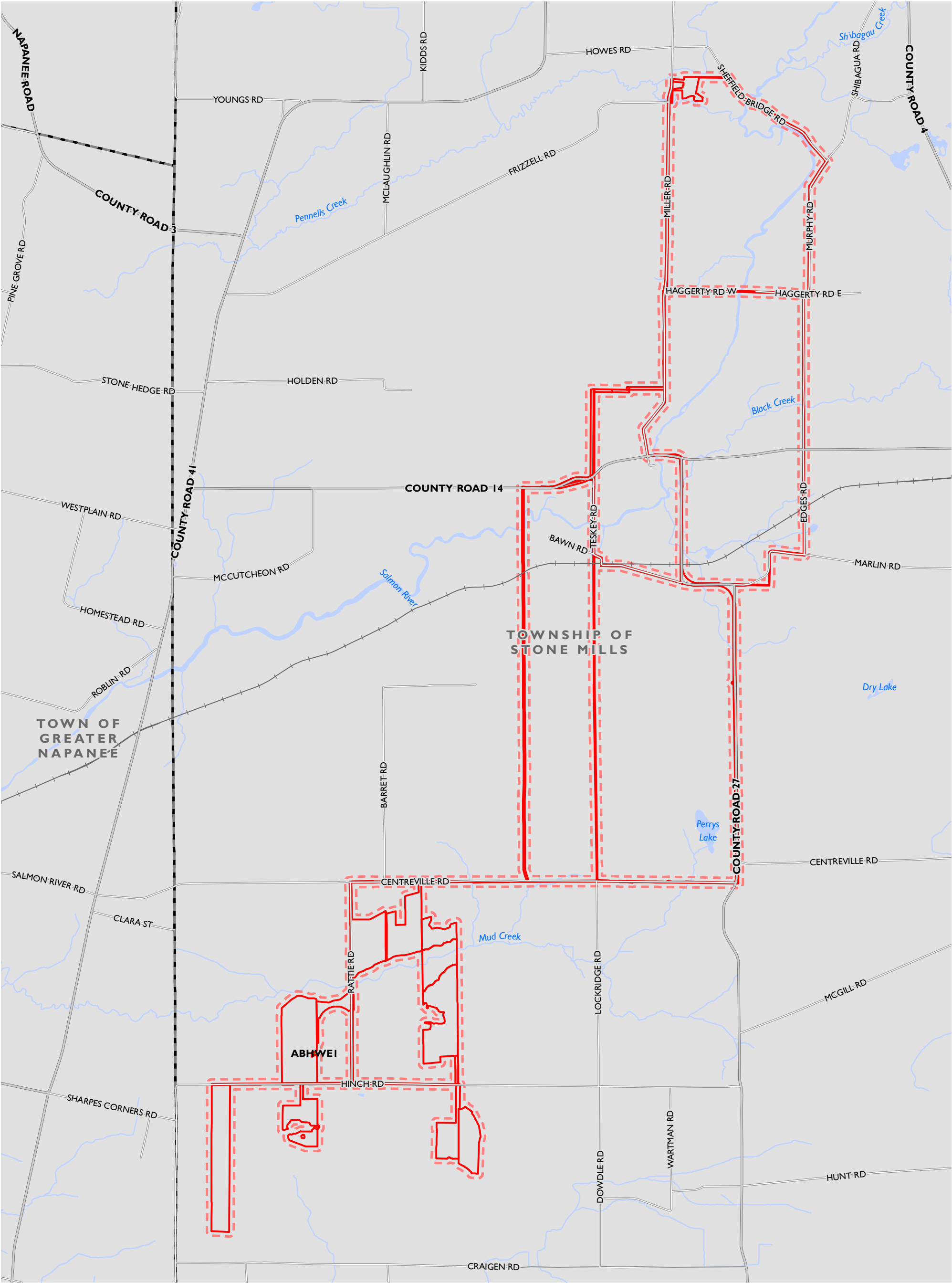
All habitat is within the Project Location Boundary.

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

1:40,000

0 0.5 1 2 km

PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

**CANDIDATE
AMPHIBIAN BREEDING
HABITAT (WETLAND)**
FIGURE 7L

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Amphibian Breeding Habitat (Wetland) (ABHWE)
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body

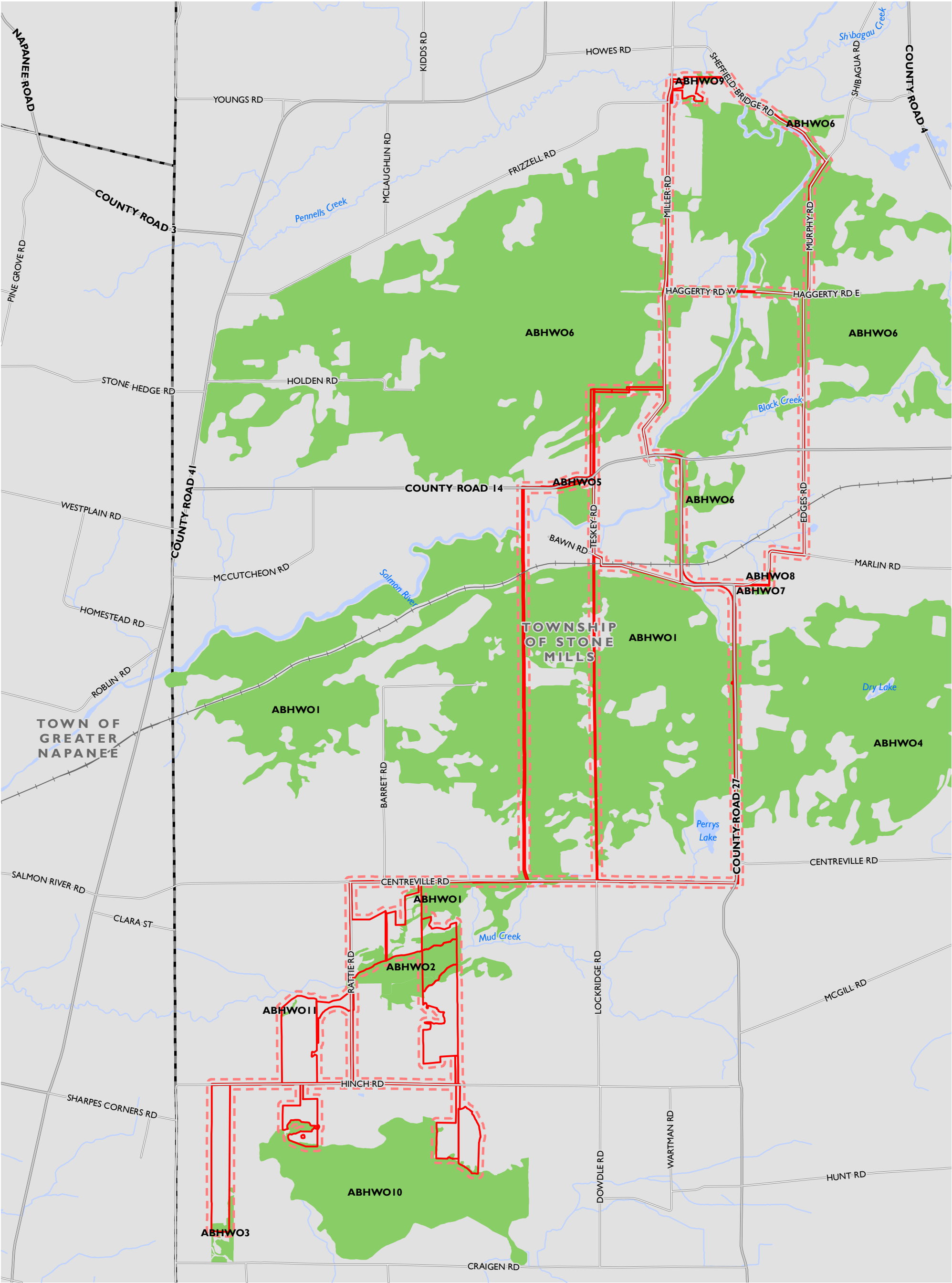
Habitat identified is within 5 m of the Project Location Boundary.



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



PROJECT: 163674 STATUS: DRAFT DATE: 10/25/2016



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

CANDIDATE AMPHIBIAN BREEDING HABITAT (WOODLAND)

FIGURE 7M

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Amphibian Breeding Habitat (Woodland) (ABHWO)

Municipal Boundary

Mapped Watercourse

Mapped Water Body

MAP CREATED BY: GM

MAP CHECKED BY: JP

DATA PROVIDED BY: MNRF

MAP PROJECTION: NAD 1983 UTM Zone 18N

1:40,000

0

0.5

1

2 km

W

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S

PROJECT: 163674

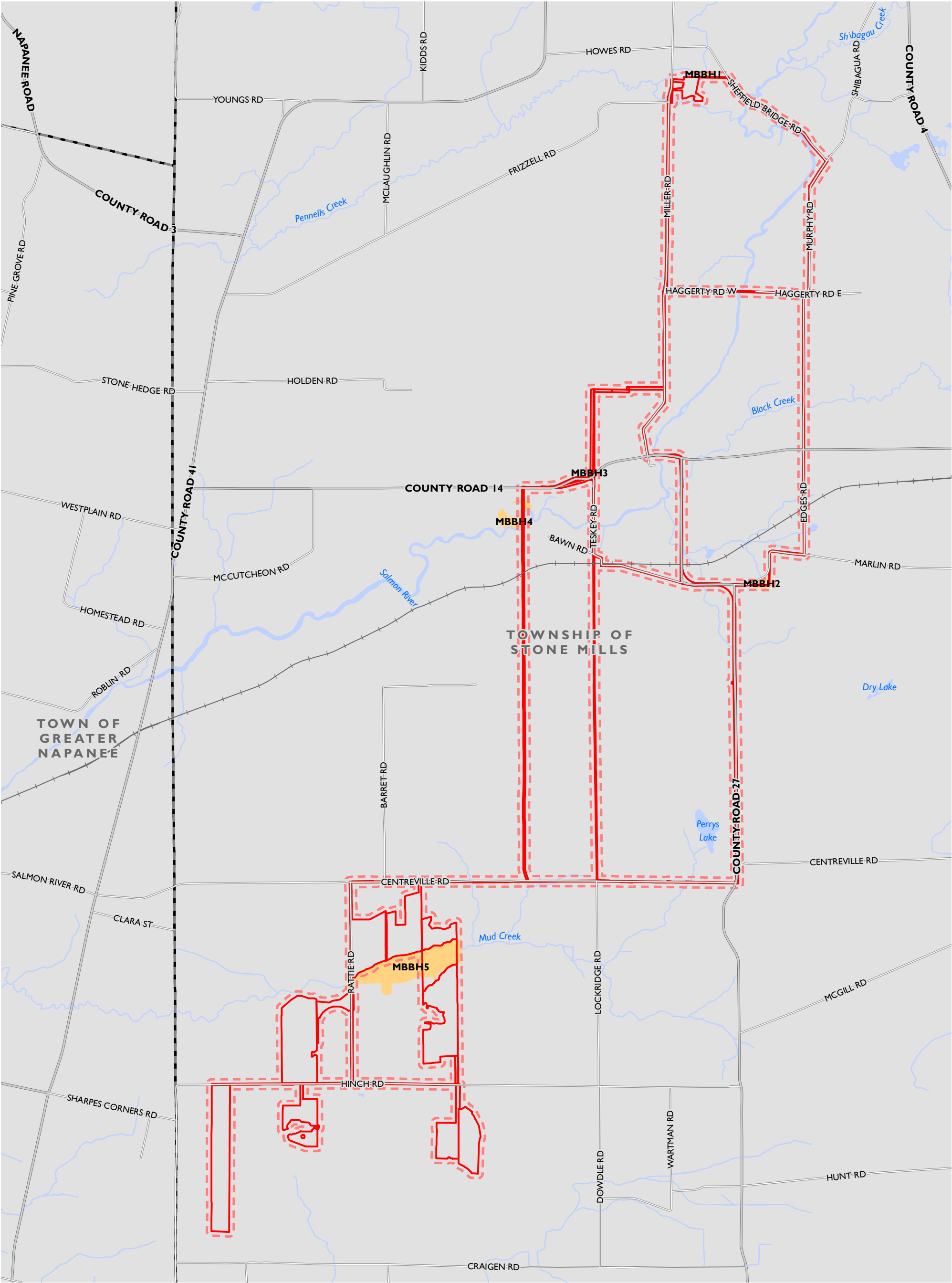
STATUS: DRAFT

DATE: 10/24/2016

DILLON CONSULTING

All habitat is within the Project Location Boundary.

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 7M Amphibian Breeding Habitat (Woodland).mxd



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

CANDIDATE
MARSH BREEDING BIRD
HABITAT (GENERAL)

FIGURE 70

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Marsh Breeding Bird Habitat (General) (MBBH)

Municipal Boundary

Mapped Watercourse

Mapped Water Body

All habitat is within the Project Location Boundary.

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

1:40,000

0

0.5

1

2 km

W

N

E

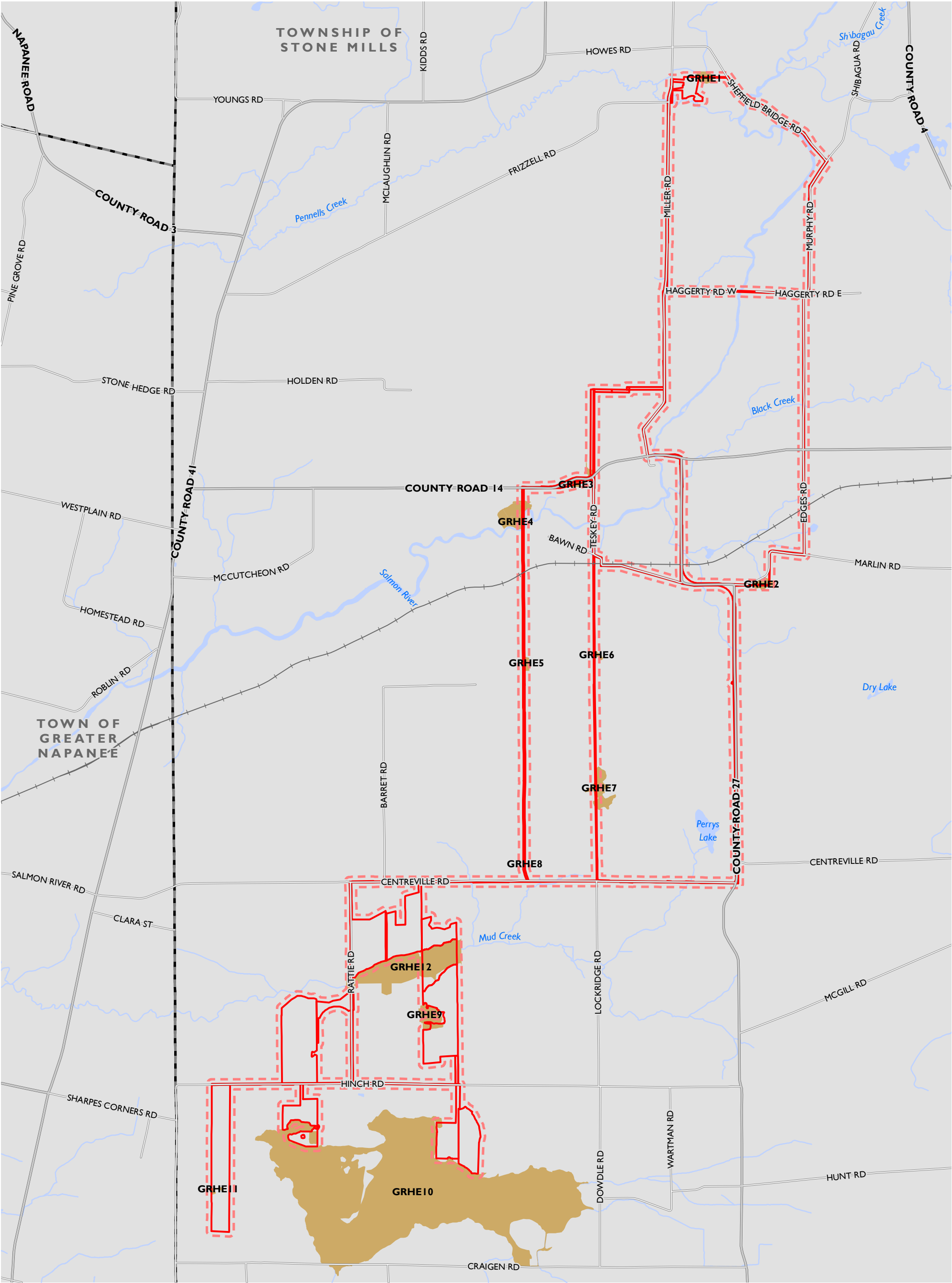
S

PROJECT: 163674

STATUS: DRAFT

DATE: 10/24/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 70 Marsh Breeding Bird Habitat (General).mxd



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

CANDIDATE MARSH BREEDING BIRD HABITAT (GREEN HERON)

FIGURE 7P

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Marsh Breeding Bird Habitat (GRHE)
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body

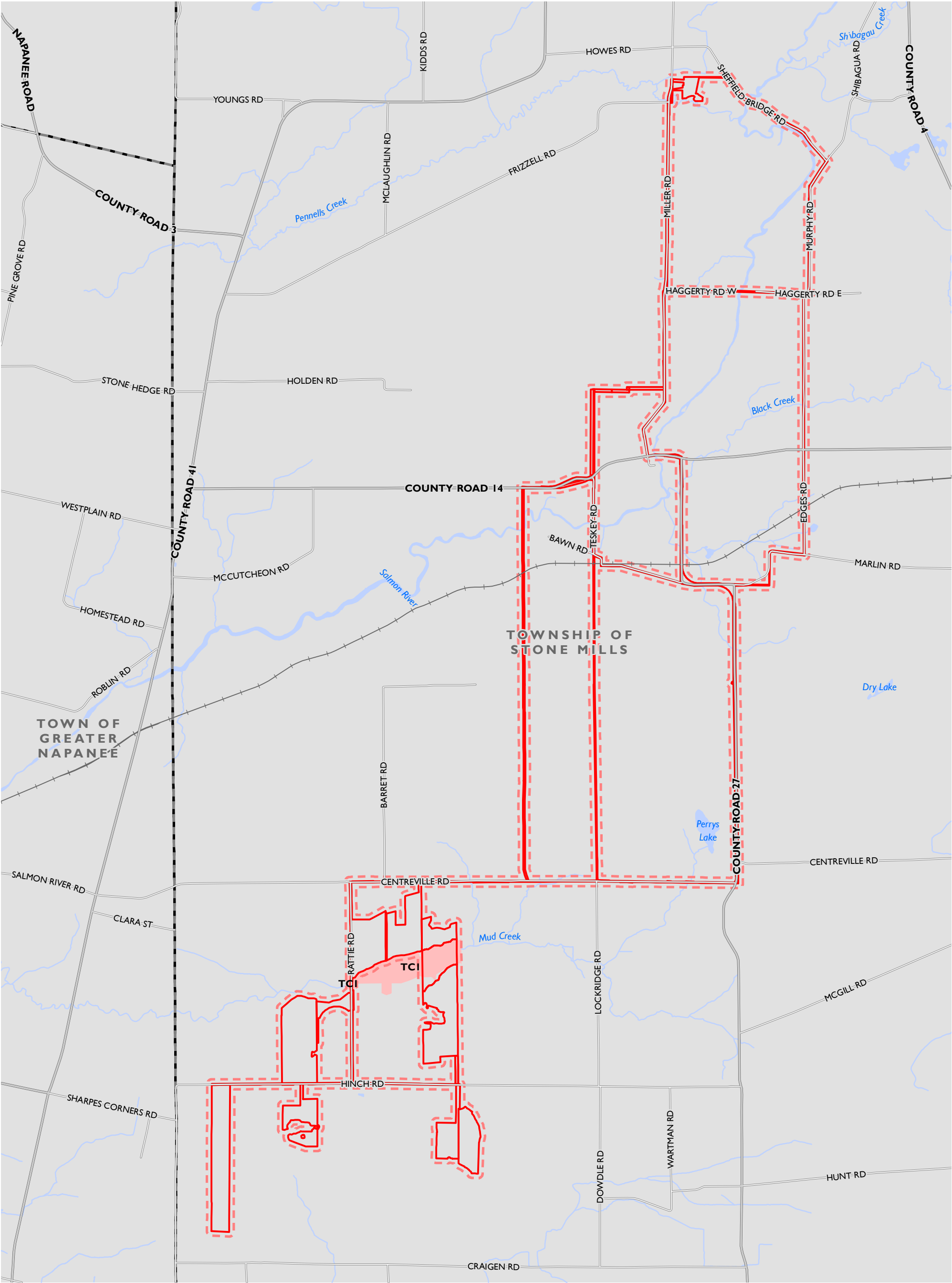
All habitat is within the Project Location Boundary.



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



PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

**CANDIDATE
TERRESTRIAL CRAYFISH**
FIGURE 7Q

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Terrestrial Crayfish Habitat (TC)
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body

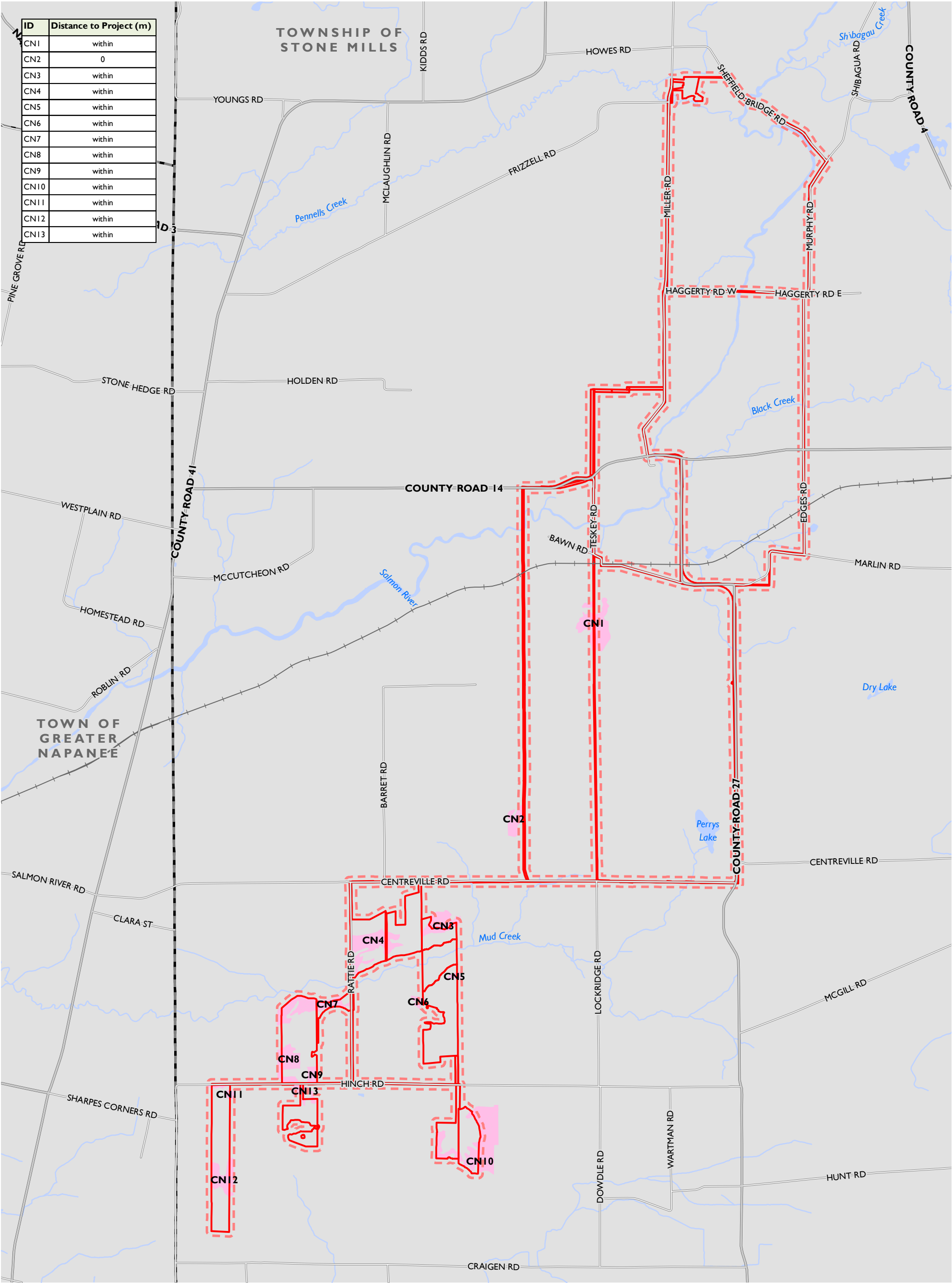
All habitat is within the Project Location Boundary.

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

1:40,000

0 0.5 1 2 km

PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

CANDIDATE COMMON NIGHTHAWK

FIGURE 7R

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Common Nighthawk (CN)

Municipal Boundary

Mapped Watercourse

Mapped Water Body

1:40,000

00.512 km

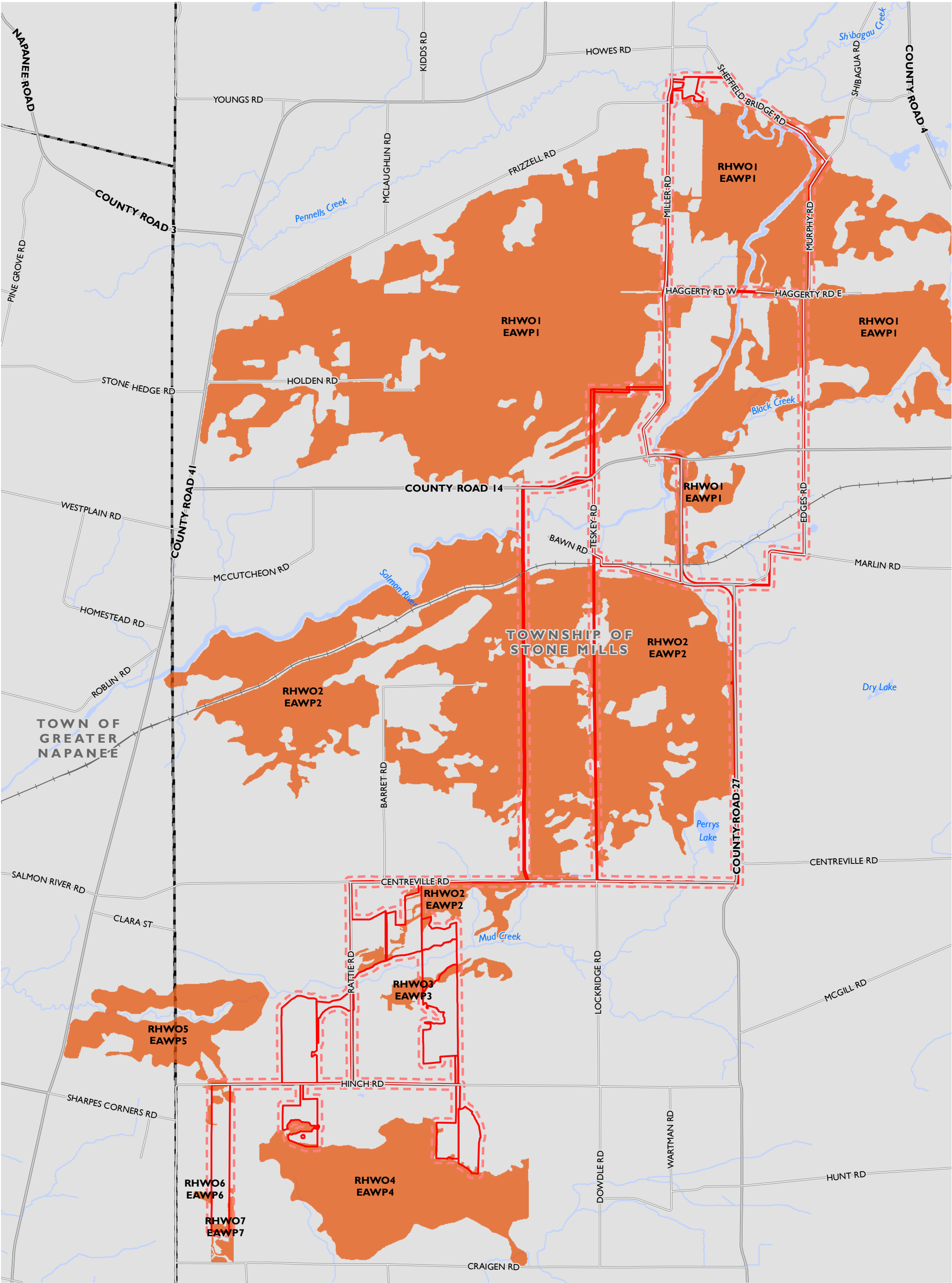
MAP CREATED BY: GM
MAP CHECKED BY: JP
DATA PROVIDED BY: MNRF
MAP PROJECTION: NAD 1983 UTM Zone 18N

PROJECT: 163674

STATUS: DRAFT

DATE: 11/29/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 7R Common Nighthawk.mxd



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

CANDIDATE WOODLAND SPECIFIC BIRD SPECIES OF SPECIAL CONCERN

FIGURE 7S

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Red-headed Woodpecker (RHWO); Eastern Wood-Pewee (EAWP)

Municipal Boundary

Mapped Watercourse

Mapped Water Body

All habitat is within the Project Location Boundary.

MAP CREATED BY: GM

MAP CHECKED BY: JP

DATA PROVIDED BY: MNRF

MAP PROJECTION: NAD 1983 UTM Zone 18N

1:40,000

0

0.5

1

2 km

W

N

E

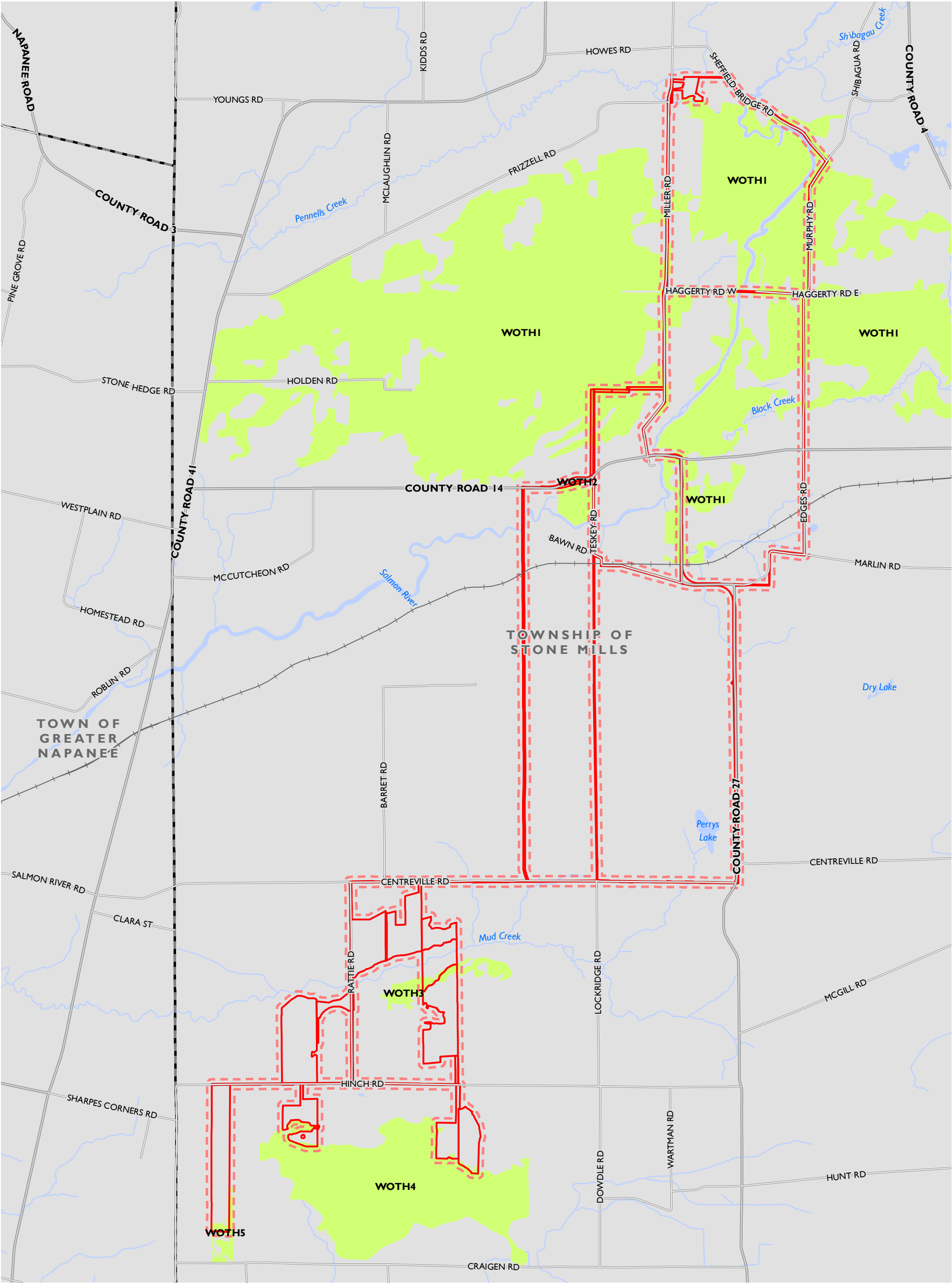
S

PROJECT: 163674

STATUS: DRAFT

DATE: 11/30/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxhSite Investigation\Figure 7S Woodland Specific Bird Species of Special Concern.mxd



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

CANDIDATE WOOD THRUSH
FIGURE 7T

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Wood Thrush (WOTH)
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body

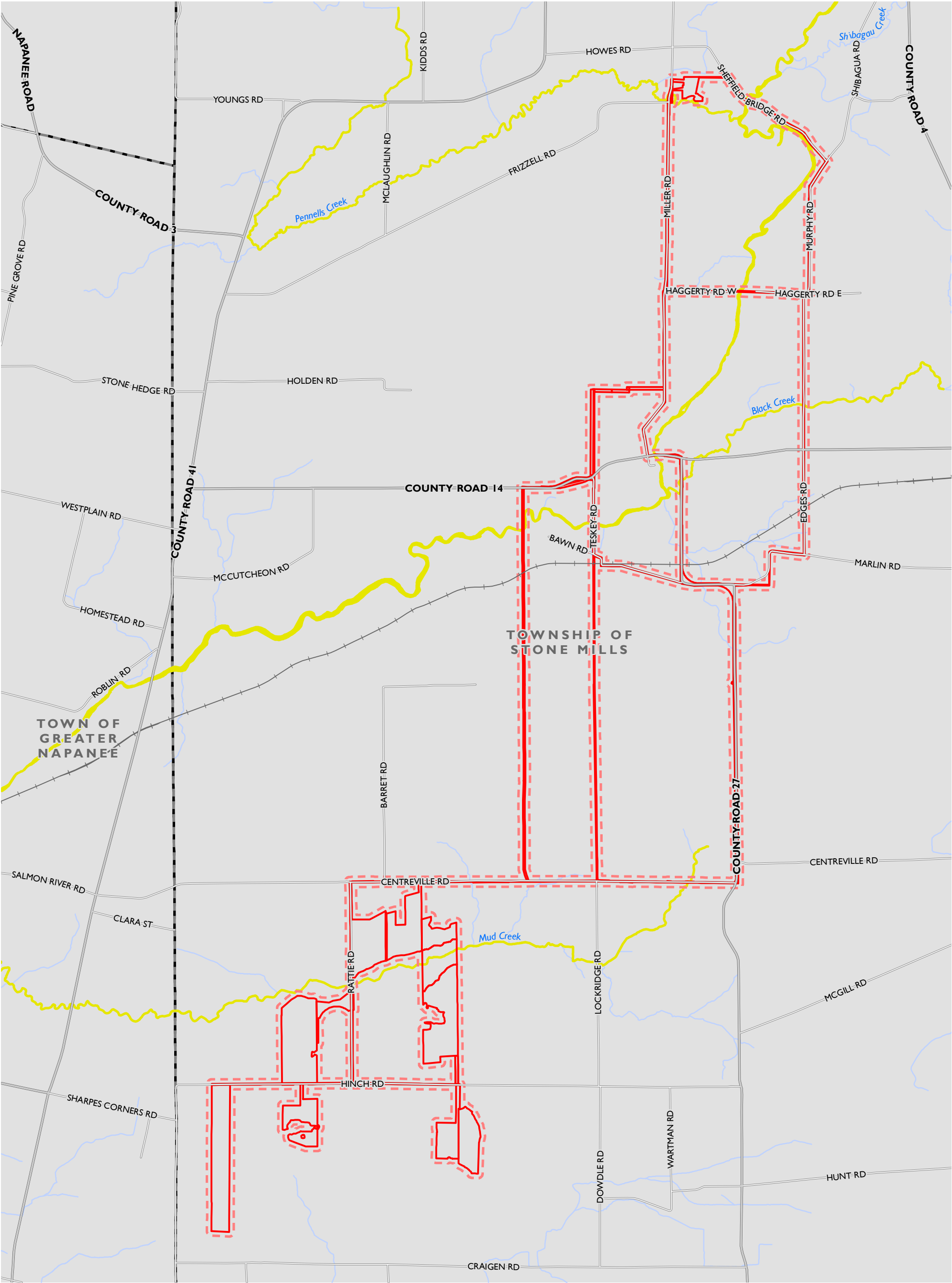
All habitat is within the Project Location Boundary.

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

1:40,000

0 0.5 1 2 km

PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

**CANDIDATE
LARGEYELLOW POND LILY**
FIGURE 7U

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Large Yellow Pond Lily
- Municipal Boundary
- Mapped Watercourse

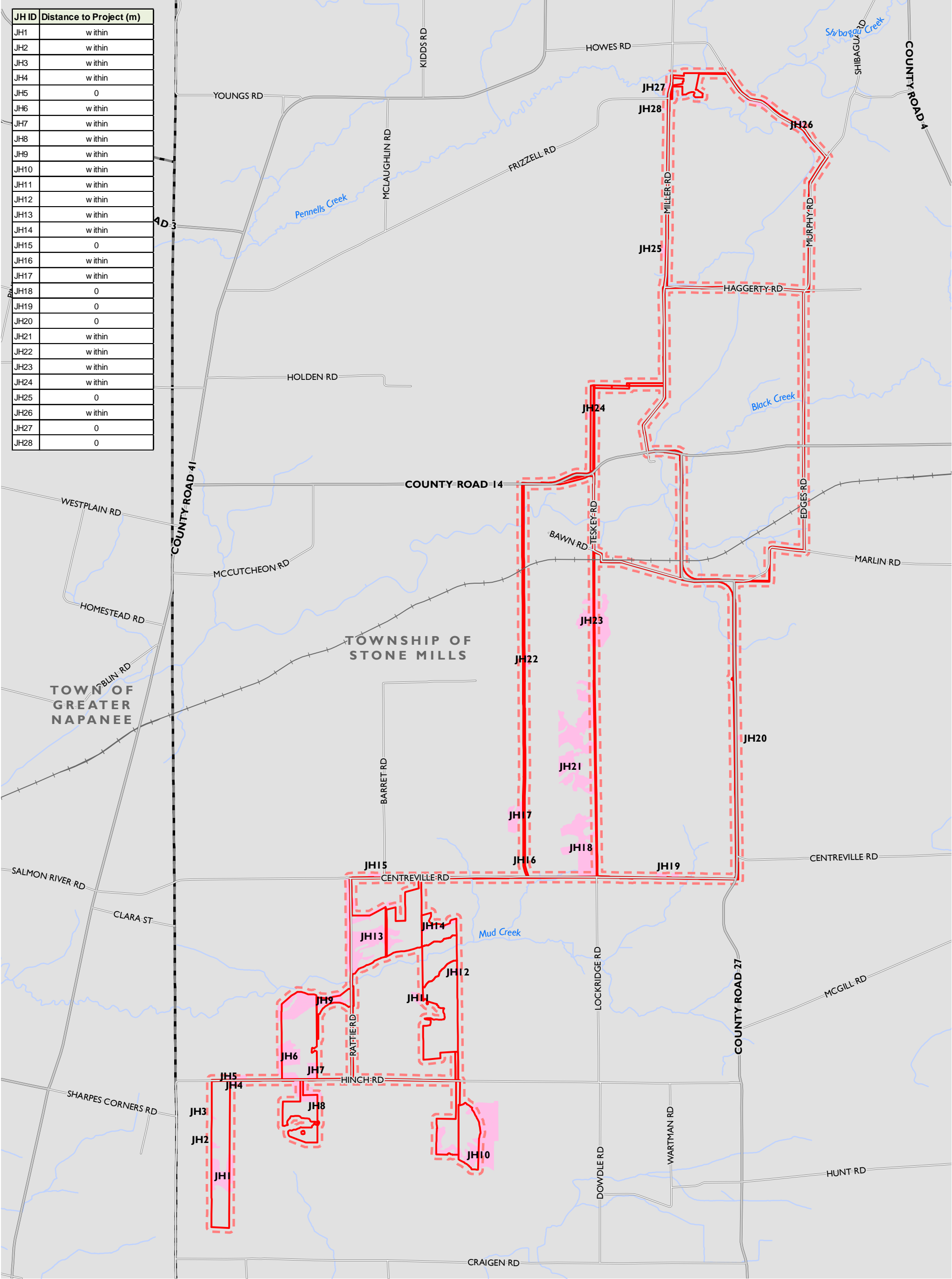
All habitat is within the Project Location Boundary.

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

1:40,000

0 0.5 1 2 km

PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016



LOYALIST SOLAR PROJECT

LOYALIST SOLAR LP

CANDIDATE BUTTERFLY SPECIES OF CONSERVATION CONCERN

FIGURE 7V

Railway

Project Location Boundary (subject to refinement)

50 m Setback

Juniper Hairstreak Habitat (JH)

Municipal Boundary

Mapped Watercourse

Note: Habitat extends beyond Project Location Boundary but has not been mapped.

1:40,000

0

0.5

1

2 km

DILLON CONSULTING

MAP CREATED BY: GM

MAP CHECKED BY: JP

DATA PROVIDED BY: MNRF

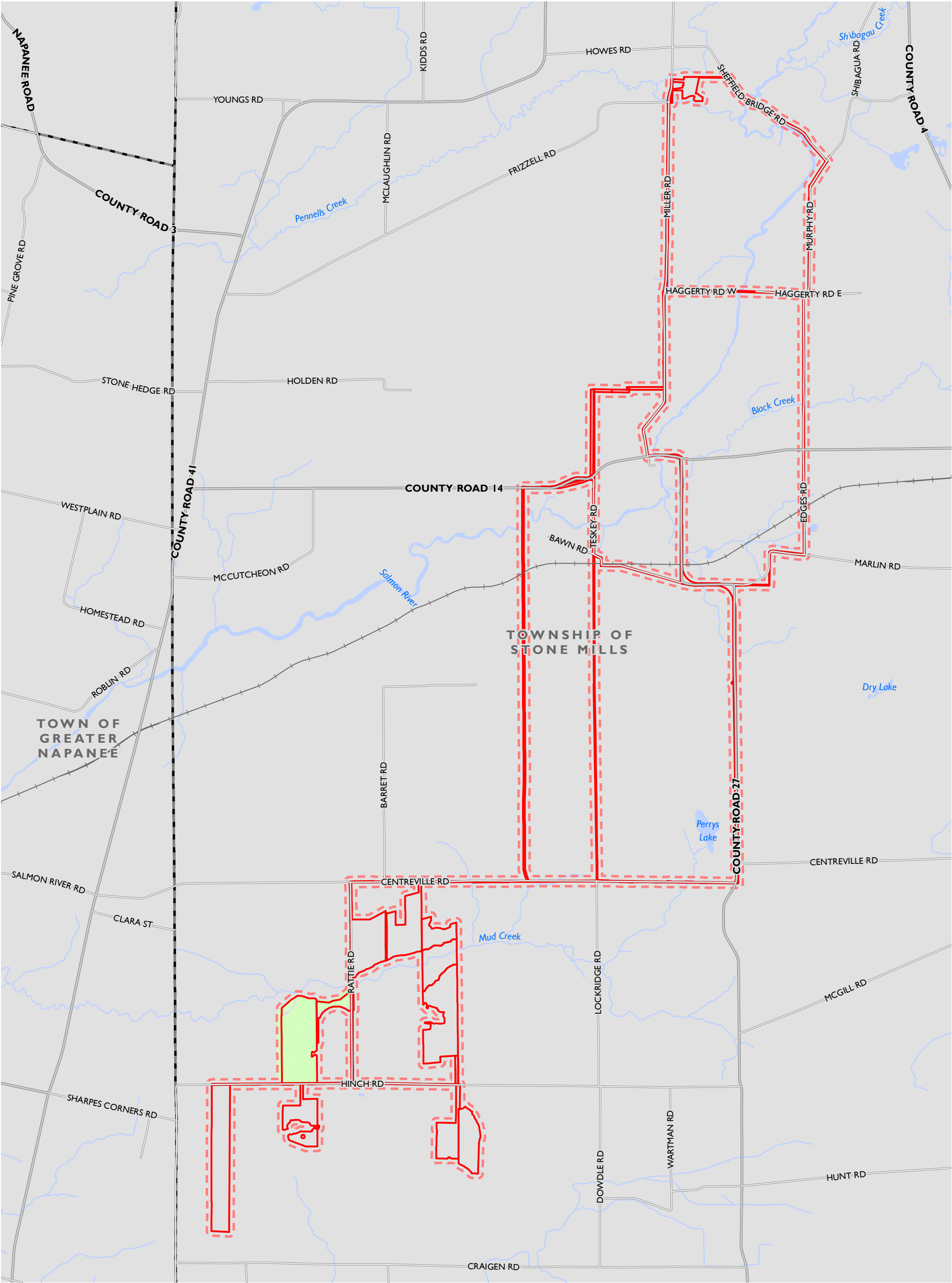
MAP PROJECTION: NAD 1983 UTM Zone 18N

PROJECT: 163674

STATUS: DRAFT

DATE: 11/25/2016

FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 7V Butterfly Species of Conservation Concern.mxd



LOYALIST SOLAR PROJECT
LOYALIST SOLAR LP

**CANDIDATE
AMPHIBIAN
MOVEMENT CORRIDOR**
FIGURE 7W

- Railway
- Project Location Boundary (subject to refinement)
- 50 m Setback
- Amphibian Movement Corridor
- Municipal Boundary
- Mapped Watercourse
- Mapped Water Body



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



PROJECT: 163674 STATUS: DRAFT DATE: 10/24/2016

Table 9: Candidate Wildlife Habitat in the Project Location and Surrounding 50 m

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function	Location		Status				Rationale for Status	Minimum Distance to the Project Location	
			Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat			
Seasonal Concentration Areas											
Waterfowl Stopover and Staging Areas (Terrestrial)	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 ELC first approximation codes) that are maintained through anthropogenic disturbances (i.e., planting or agriculture, clearing, recreation, soil movement, grazing or mowing). Agricultural fields with waste grains are commonly used by waterfowl, these are not considered SWH.	ID	ELC*							The Meadow (ME) and agricultural fields on site have the potential for collecting sheet water in the spring. Field investigations were not conducted during the typical time to observe this habitat and therefore be considered as Candidate Significant Wildlife Habitat.	Candidate habitat within the Project Location
		WSST1	Perennial Cover Crop (44); Open Pasture (45); Mixed Meadow (40)	✓	✓	---	✓	---	---		
		WSST2	Perennial Cover Crop (44)	✓	✓	---	✓	---	---		
		WSST3	Perennial Cover Crop (44); Open Pasture (45)	✓	✓	---	✓	---	---		
		WSST4	Open Pasture (45); Perennial Cover Crop (44)	✓	✓	---	✓	---	---		
		WSST5	Open Pasture (45); Perennial Cover Crop (44)	✓	✓	---	✓	---	---		
		WSST6	Open Pasture (45)	✓	✓	---	✓	---	---		
		WSST7	Open Pasture (45); Perennial Cover Crop (44)	✓	✓	---	✓	---	---		
		WSST8	Open Pasture (45)	✓	✓	---	✓	---	---		
		WSST9	Perennial Cover Crop (44)	✓	✓	---	✓	---	---		
		WSST10	Perennial Cover Crop (44)	✓	✓	---	✓	---	---		
		WSST (Other)	Mixed Meadow (40); Mixed Meadow (41); Bedrock Mixed Meadow (42); Perennial Cover Crop (44); Open Pasture (45)	---	✓	---	---	---	✓		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function		Location		Status				Rationale for Status	Minimum Distance to the Project Location
				Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
Waterfowl Stopover and Staging Areas (Aquatic)	Ponds, marshes, lakes, bays, coastal inlets and watercourses used during migration can be significant wildlife habitat for local and migrant waterfowl populations during migration. Sewage treatment ponds and storm water 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 invertebrates and vegetation in shallow water). Can be found in the following community types: Shallow Marsh (MAS), Shallow Aquatic (SA), and Deciduous Swamp (SWD).	ID	ELC*							Three areas of Poplar/Maple Deciduous Swamp occur in association with two of the potential connection line routes. WSSA1 and WSSA2 are part of a larger wetland area (Wetland #18), which retained standing water in the Spring of 2016. WSSA3 is part of Wetland #33. WSSA4 is part of Mud Creek PSW (Wetland #104). Areas of Deciduous Swamp (SWD) and Shallow Marsh (MAS) are located entirely within the Project Location 50 m setback areas are considered under Generalized Candidate Significant Wildlife Habitat. See Figure 7A and 7	Candidate habitat within the Project Location
		WSSA1	Poplar Deciduous Swamp (58)	✓	✓	---	✓	---	---		
		WSSA2	Maple Deciduous Swamp (60)	✓	✓	---	✓	---	---		
		WSSA3	Poplar Deciduous Swamp (58)	✓	✓	---	✓	---	---		
		WSSA4	Cattail Organic Shallow Marsh (37)	✓	✓	---	✓	---	---		
		WSSA (Other)	Deciduous Swamp (SWD) areas are found within 50 m of the Project Location	---	✓	---	---	---	✓		
Shorebird Migratory Stopover and Staging Areas	Shorelines of lakes, rivers and wetlands, including beach areas, bars and seasonally flooded, muddy and un-vegetated shoreline habitats. Great Lakes coastal shorelines, including groynes and other forms of armour rock lakeshores, are extremely important for migratory shorebirds in May to mid-June and early July to October. Sewage treatment ponds and storm water ponds do not qualify as a significant wildlife habitat. Can be found within the following ELC habitat types: Meadow Marsh (MAM), Sand Dune (SD), Beach Bar (BB). The habitat provides a combination of fields and woodlands that provide roosting, foraging and resting habitats for wintering raptors. Least disturbed sites, idle/fallow or lightly grazed field/meadow habitats >15 ha with adjacent woodlands may be considered candidate significant wildlife habitat. Habitat includes any Forest (FO), in addition to one of the following Community Types: Meadow (CUM), Thicket (CUT), Savannah (CUS), Woodland (CUW) (<60% cover). Raptor wintering sites need to be >20 ha.	Cattail and Reed Canary Grass Meadow Marsh communities (30,31,34,35,36)		---	✓	---	---	---	✓	There is a reed canary grass meadow marsh that is part of Roblin Swamp (Wetland #41) and connected to the Salmon River. The shoreline area is mostly vegetated and is unlikely to support large numbers of migratory shorebirds. The other MAM communities associated with a water body or larger wetland are included as considered Generalized Candidate Significant Wildlife Habitat. See Figure 7 .	N/A
Raptor Wintering Area		Candidate habitat does not occur within the Project Location or 50 m setback.		---	---	✓	---	---	---	Habitat that meets the criteria for candidate significant raptor wintering area does not occur in association with the Project Location. Habitat includes a mix of forest (FO) but lacks appropriately sized upland communities (CU) that are 15 ha or greater in size. Areas not composed of forest are primarily agricultural or heavily grazed pasture lands.	N/A

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function		Location		Status				Rationale for Status	Minimum Distance to the Project Location
				Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
Bat Hibernacula	Hibernacula may be found in abandoned mines, underground foundations, karsts, or one of the following ELC communities: Crevice (CCR) or Cave (CCA). SWH does not include buildings. The locations of bat hibernacula are relatively poorly known.	Candidate habitat does not exist within the Project Location or 50 m setback.		---	---	✓	---	---	---	The Project Location does not contain habitat (such as abandoned mines, underground foundations, karsts, crevices or caves) that would support bat hibernacula. There are some previously known sites in the greater landscape of the Project such as Roblin Hell-holes.	N/A
Bat Maternity Colonies	Maternity colonies can be found in tree cavities, vegetation and often in buildings; however, buildings are not considered significant wildlife habitat. Maternity roosts are not found in caves and mines in Ontario. This habitat is associated with any of the following Community Types: Deciduous Forest (FOD), Mixed Forest (FOM), that have ≥10/ha wildlife trees ≥25 cm diameter at breast height (dbh). Female bats prefer wildlife tree (snags) in early stages of decay, class 1-3 or class 1 or 2.	The FOD, FOM and FOC communities, as well as SWD are all found within the Project Location and/or the 50 m setback.		---	---	✓	---	---	---	Where FOD, FOC or FOM occurred within the Project Location or 50 m setback, the MNRF (2011) protocol for identifying candidate maternity roosts was implemented. None of the woodland areas met the snag/cavity tree density requirement of at least 10 snags per ha of trees greater than 25 cm dbh. See <i>Appendix D</i> for more information.	N/A
Turtle Wintering Areas	For most turtles, wintering areas are in the same general areas as 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). Species of Conservation Concern: Common Snapping Turtle Northern Map Turtle	ID*	ELC							The Marsh (MA) and open water areas with water that has a depth of 1 m or greater occurs in association with the Mud Creek PSW. This features occurs within the Project Location and is therefore included as Candidate Significant Wildlife Habitat. See Figure 7B	Candidate habitat are within the Project Location
		TWA1	Cattail Organic Shallow Marsh (37)	✓	✓	---	✓	---	---		
		TWA (Other)	Open water (OA), Swamp (SW) and Marsh (MA) exist within the 50 m setback	---	✓	---	---	---	✓		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function		Location		Status				Rationale for Status	Minimum Distance to the Project Location
				Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
Reptile Hibernaculum	Hibernation occurs in sites located below frost lines in burrows, rock crevices, broken and fissured rock, wetlands such as conifer or shrub swamps and swales, poor fens, or depressions in bedrock terrain with sparse trees or shrubs with sphagnum moss or sedge hummock ground cover. 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), and Alvar (RBOA1, RBSA1, RBTA1). Species of Conservation Concern: Eastern Ribbonsnake Five-lined Skink	ID	ELC*							Alvars and Rock Barrens (RBOA1, RBSA1 and RBTA1) exist within the Project Locations and 50 m setback. Conifer swamps (SWD or SWC communities in the ELC first approximation codes) exist within the 50 m setback for the Project Location. Additionally, animal burrows were observed throughout the Project Location, concentrated specifically in agricultural/pasture (OAG) communities, which also may enable reptiles to hibernate below the frost line. See Figure 7C .	All candidate habitats are within the Project Location
		RH1	Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---	---		
		RH2	Common Juniper Alvar (49)	✓	✓	---	✓	---	---		
		RH3	White Cedar Coniferous Swamp (53)	✓	✓	---	✓	---	---		
		RH4	White Cedar Coniferous Swamp (53)	✓	✓	---	✓	---	---		
		RH5	Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---	---		
		RH6	Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---	---		
		RH7	Dry Lichen-Moss Open Alvar Pavement (47) Red Cedar Alvar Woodland (51) Poverty Grass Open Alvar Meadow (73)	✓	✓	---	✓	---	---		
		RH8	Open Alvar Rock Barren (48) Red Cedar Alvar Woodland (51) Red Cedar Treed Alvar (52)	✓	✓	---	✓	---	---		
		RH9	Alvar Shrub Rock Barren (50)	✓	✓	---	✓	---	---		
		RH10	Alvar Shrub Rock Barren (50)	✓	✓	---	✓	---	---		
		RH11	Red Cedar Alvar Woodland (51) Alvar Shrub Rock Barren (50)	✓	✓	---	✓	---	---		
		RH12	Red Cedar Alvar Woodland (51) Alvar Shrub Rock Barren (50)	✓	✓	---	✓	---	---		
		RH13	Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---	---		
		RH 14	Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---	---		
		RH15	White Cedar Coniferous Forest (8)	✓	✓	---	✓	---	---		
		RH16	White Cedar Coniferous Forest (8)	✓	✓	---	✓	---	---		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function		Location		Status				Rationale for Status	Minimum Distance to the Project Location
				Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
Colonially Nesting Bird Breeding Habitat (Bank and Cliff)	Any site or area with eroding banks, sandy hills, borrow pits, steep slopes, sand piles, cliff faces, bridge abutments, silos, or barns found in any of the following Community Types: Meadow (ME), Thicket (TH), Savannah (SV), Bluff (BL), Cliff (CL). This does not include man-made structures (bridges or buildings), licensed/permitted mineral aggregate operation, or recently (within the last 2 years) disturbed soil areas, such as berms, embankments, and soil or aggregate stockpiles.	Open pits for mining aggregate resources (CVC_4 community in second approximation code) (Figure 4) exists within the 50 m setback of the Project Location.		---	✓	✓	---	---	---	There is one licenced quarry (Camden Quarry) where there is a steep slope from mining aggregate recourses. Licensed aggregate operations do not qualify as candidate significant wildlife habitat.	N/A
Colonially Nesting Bird Breeding Habitat (Trees & Shrubs)	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 tree. This habitat can be found in any of the following community types: Mixed Swamp (SWM); Deciduous Swamp (SWD), Coniferous Swamp (SWC).	ID	ELC*							Swamp (SWD, SWC and SWM) communities identified within the Project Location and extending to the 50 m setback is potential habitat. Access wasn't provided to the full extent of the habitats identified to look for nests. Areas of Deciduous Swamp (SWD) located entirely within the Project Location 50 m setback area are considered Candidate Significant Wildlife Habitat. See Figure 7D .	See table on Figure 7D
		CNT1	Maple Deciduous Swamp (60)	---	✓	---	✓	---	---		
		CNT2	Maple Deciduous Swamp (60) Green Ash Deciduous Swamp (56)	---	✓	---	✓	---	---		
		CNT3	Maple Deciduous Swamp(60)	✓	✓	---	✓	---	---		
		CNT4	Poplar Deciduous Swamp (58) White Cedar Coniferous Swamp(53) Maple Deciduous Swamp (60)	✓	✓	---	✓	---	---		
		CNT5	Poplar Mineral Deciduous Swamp(58)	✓	✓	---	✓	---	---		
		CNT6	Green Ash Deciduous Swamp (56)	✓	✓	---	✓	---	---		
		CNT7	Green Ash Deciduous Swamp (56)	---	✓	---	✓	---	---		
		CNT8	Green Ash Deciduous Swamp(56)	✓	✓	---	✓	---	---		
		CNT9	Black Ash Deciduous Swamp(55)	---	✓	---	✓	---	---		
		CNT10	Deciduous Swamp (59)	---	✓	---	✓	---	---		
		CNT11	Deciduous Swamp (59)	---	✓	---	✓	---	---		
		CNT12	Maple Deciduous Swamp (57)	---	✓	---	✓	---	---		
		CNT13	Maple Deciduous Swamp (57)	---	✓	---	✓	---	---		
		CNT14	Maple Deciduous Swamp (57)	---	✓	---	✓	---	---		
		CNT15	Green Ash Deciduous Swamp (56)	✓	✓	---	✓	---	---		
		CNT16	Green Ash Deciduous Swamp (56)	✓	✓	---	✓	---	---		
		CNT17	Green Ash Deciduous Swamp (56)	✓	✓	---	✓	---	---		
		CNT18	Green Ash Deciduous Swamp (56)	---	✓	---	✓	---	---		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function		Location		Status				Rationale for Status	Minimum Distance to the Project Location	
				Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat			
		CNT19	Green Ash Deciduous Swamp (56)	---	✓	---	✓	---	---			
		CNT20	Maple Deciduous Swamp (57)	✓	✓	---	✓	---	---			
		CNT21	Green Ash Deciduous Swamp (56)	---	✓	---	✓	---	---			
		CNT22	Maple Deciduous Swamp (57)	---	✓	---	✓	---	---			
		CNT23	Green Ash Deciduous Swamp (56)	---	✓	---	✓	---	---			
		CNT24	Green Ash Deciduous Swamp (56)	---	✓	---	✓	---	---			
		CNT25	Green Ash Deciduous Swamp (56)	---	✓	---	✓	---	---			
		CNT26	Black Ash Deciduous Swamp(55)	✓	✓	---	✓	---	---			
		CNT27	Black Ash Deciduous Swamp(55)	---	✓	---	✓	---	---			
		CNT28	Green Ash Deciduous Swamp (56)	---	✓	---	✓	---	---			
Colonially Nesting Bird Breeding Habitat (Ground)	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 farmlands. Any rocky island or peninsula 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 (MAS), Meadow (ME), Thicket (TH), Savannah (SV). Species of Conservation Concern: Black tern	ID	ELC*								There were no islands or peninsulas associated with open water or in marshy areas. Habitat for gulls and terns is therefore not applicable to the Project. Shallow Marsh (MAS), Meadow (ME), Pasture (OAG) and Thicket (TH) communities where there was suitable habitat existed along watercourses within the Project Location and 50 m setback that will be brought forward as candidate Significant Wildlife Habitat for Brewer’s Blackbird. See Figure 7E .	See table on Figure 7E
		CNG1	Cattail Shallow Marsh (37); Open Pasture (45)	✓	✓	---	✓	---	---			
		CNG2	Mixed Meadow (40)	✓	✓	---	✓	---	---			
		CNG3	Mixed Meadow (41); Cattail Marsh (37);	✓	✓	---	✓	---	---			
		CNG4	Mixed Meadow (41)	✓	✓	---	✓	---	---			
		CNG5	Mixed Meadow (41)	✓	✓	---	✓	---	---			
		CNG6	Mixed Meadow (40)	---	✓	---	✓	---	---			
		CNG7	Graminoid Meadow (39); Ford Meadow (38)	✓	✓	---	✓	---	---			
		CNG8	Mixed Meadow (40); Bedrock Mixed Meadow (42)	---	✓	---	✓	---	---			
		CNG9	Bedrock Mixed Meadow (42)	---	✓	---	✓	---	---			
		CNG10	Mixed Meadow (40)	---	✓	---	✓	---	---			
		CNG11	Mixed Meadow (40)	---	✓	---	✓	---	---			
		CNG12	Mixed Meadow (40)	✓	✓	---	✓	---	---			
		CNG13	Mixed Meadow (40)	✓	✓	---	✓	---	---			
		CNG14	Perennial Cover Crop (44)	✓	✓	---	✓	---	---			
		CNG15	Perennial Cover Crop (44)	✓	✓	---	✓	---	---			
		CNG16	Open Pasture (45)	✓	✓	---	✓	---	---			

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function	Location		Status				Rationale for Status	Minimum Distance to the Project Location
			Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
Deer Winter Congregation Areas	Deer winter congregation areas are areas deer move to in response to the onset of winter snow and cold. Woodlots will typically be ≥100 ha in size and comprised of FOC, FOM, FOD, SWC, SWM, and SWD. Deer management is an MNRF responsibility.	Potential habitat does not exist within the Project Location or 50 m setback.	---	---	✓	---	---	---	Planning authorities are advised to rely on MNRF advice for locations and significance of Deer Winter Congregation Areas. MNRF is responsible for the management of Deer habitat in Ontario. No Deer Winter Congregation Areas previously evaluated as significant were identified by MNRF in the Project Location or in the 50m setback area. The MNRF identified a stratum 2 deer wintering yard in the general area of the Project Location. It was determined to be located more than 50 m from the proposed Project Location.	N/A
Rare Vegetation Communities										
Cliffs and Talus Slopes	A cliff is vertical to near vertical bedrock that is greater than 3 m in height. A talus slope is rock rubble at the base of a cliff made up of coarse rocky debris. Talus Slopes are associated with the following ELC communities: TAO (Open Talus), TAS (Shrub Talus), TAT (Treed Talus).	Potential habitat does not exist within the Project Location or 50 m setback.	---	---	✓	---	---	---	ELC studies did not identify talus slopes within the Project Location or 50 m setback.	N/A
Sand Barren	Sand barrens typically are exposed sand, generally sparsely vegetated, and caused by lack of moisture, periodic fires and erosion. This habitat is associated with any of the following Community Types: SBO1 (Open Sand Barren Ecosite), SBS1 (Shrub Sand Barren Ecosite), SBT1 (Treed Sand Barren Ecosite). The site must not be dominated by exotic or introduced species (<50% vegetative cover exotics). Tree cover is always ≤ 60%.	Potential habitat does not exist within the Project Location or 50 m setback.	---	---	✓	---	---	---	ELC studies did not identify sand barrens within the Project Location or 50 m setback.	N/A

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function	Location		Status				Rationale for Status	Minimum Distance to the Project Location
			Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
Alvar	<p>An Alvar is typically a level, mostly unfractured calcareous bedrock feature with a mosaic of rock pavements and bedrock overlain by a thin veneer of soil. The hydrology of Alvars is complex, with alternating periods of inundation and drought. This habitat may be associated with any of the following ELC communities: ALO1, ALS1, ALT1, FOC1, FOC2, CUM2, CUS2, CUT2-1, CUW2 that are >0.5 ha in size. Where these communities occur, they have been identified as candidate alvar communities and will be carried forward into the <i>NHA Evaluation of Significance</i>.</p> <p>Provincially Rare Vegetation Communities of Special Concern listed in Appendix M of the SWHTG: ALO1-1 ALS1-1 ALT1-5</p> <p>Alvar Indicator Species: Crawe’s Sedge Philadelphia Panic grass Flat-stemmed Spike rush Small Skullcap False Pennyroyal</p> <p>Species of Special Concern: Tiny Mouse-tail Second Rush/ One-sided Rush Few-fruited Sedge Carolinian Whitlow-grass/ Creeping Draba</p>	ID	ELC*						<p>Alvar communities (ALO, ALS and RBT as per the ELC first approximation code) exist within the Project Location and 50 m setback.</p> <p>ELC studies identify three rare vegetation communities, as defined in the Significant Wildlife Habitat Technical Guide (MNRF 2000), within the Project Location and 50 m setback.</p> <p>ALV6 is comprised of ALS1-1 (GRANK of G2 and SRANK S2). This community occurs within the Project Location and 50 m setback.</p> <p>ALV21 is comprised of ALO1-1 (GRANK of G2 and SRANK of S1) and ALT1-5 (GRANK of G2 and SRANK S2). These communities occur in one area of the Project Location and 50 m setback.</p> <p>See Figure 7F.</p>	All candidate habitats are within the Project Location
		ALV1	White Cedar Coniferous Forest(8)	✓	✓	---	✓	---		
		ALV2	White Cedar Coniferous Forest(8)	✓	✓	---	✓	---		
		ALV3	White Cedar Coniferous Forest(8); Bedrock Mixed Meadow (42)	✓	✓	---	✓	---		
		ALV4	White Cedar Bedrock Coniferous Forest(11); Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---		
		ALV5	Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---		
		ALV6	White Cedar Bedrock Coniferous Forest(11); Common Juniper Shrub Alvar (49)	✓	✓	---	✓	---		
		ALV7	White Cedar Bedrock Coniferous Forest(11)	✓	✓	---	✓	---		
		ALV8	Red Cedar Alvar Woodland (51); White Cedar Bedrock Coniferous Forest(11); Cultural Alvar (2)	✓	✓	---	✓	---		
		ALV9	White Cedar Bedrock Coniferous Forest(11)	✓	✓	---	✓	---		
		ALV10	White Cedar Coniferous Forest(8); White Cedar Bedrock Coniferous Forest(11)	✓	✓	---	✓	---		
		ALV11	Cultural Alvar (2); Red Cedar Alvar Woodland (51); Red Cedar Calcareous Treed Alvar (52)	✓	✓	---	✓	---		
		ALV12	Red Cedar Alvar Woodland (51); Red Cedar Treed Alvar (52)	✓	✓	---	✓	---		
		ALV13	Alvar Shrub Rock Barren (50)	✓	✓	---	✓	---		
		ALV14	Alvar Shrub Rock Barren (50)	✓	✓	---	✓	---		
		ALV15	Red Cedar Alvar Woodland (51);Alvar Shrub Rock Barren (50); Bedrock Mixed Meadow (42); Red Cedar Alvar Woodland Type (51)	✓	✓	---	✓	---		
		ALV16	Red Cedar Alvar Woodland (51); Shrub Pasture (74); Cultural Alvar (2); Bedrock Mixed Meadow (42)	✓	✓	---	✓	---		
		ALV17	Red Cedar Alvar Woodland (51); Cultural Alvar (2)	✓	✓	---	✓	---		
		ALV18	Bedrock Mixed Meadow (42)	✓	✓	---	✓	---		
		ALV19	Bedrock Mixed Meadow (42)	✓	✓	---	✓	---		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function				Location		Status				Rationale for Status	Minimum Distance to the Project Location
						Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
		ALV20	Bedrock Mixed Meadow (42)			✓	✓	---	✓	---	---		
		ALV21	Poverty Oat Grass Alvar (73); Red Cedar Alvar Woodland (51); Lichen-Moss Open Alvar Pavement (51); Red Cedar Early-Buttercup Alvar (inclusion of 51)			✓	✓	---	✓	---	---		
Old Growth Forest	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 ≥30 ha with at least 10 ha interior 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 sizes, uneven canopy and canopy gaps, abundant fallen logs in varying states of decomposition, trees in older age classes (often 50-140 years;).	ID	ELC*	Total Size (ha)	Interior Size (ha)							Woodlands greater than 30 ha that occur within the Project Location include interior woodland habitat greater than 10 ha in size. See Figure 7G .	See Table on Figure 7G
		OG1	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	1136.01	464.82	✓	✓	---	✓	---	---		
		OG2	Please refer to Table 8 for Vegetation Communities associated with Woodland AP	83.92	34.25	✓	✓	---	✓	---	---		
			Please refer to Table 8 for Vegetation Communities associated with Woodland BD	539.45	247.84	---	✓	---	✓	---	---		
		OG4	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	1774.24	893.57	✓	✓	---	✓	---	---		
			Please refer to Table 8 for Vegetation Communities associated with Woodland DB	101.41	32.81	✓	✓	---	✓	---	---		
		OG6	Please refer to Table 8 for Vegetation Communities associated with Woodland L	132.37	29.31	✓	✓	---	✓	---	---		
			Please refer to Table 8 for Vegetation Communities associated with Woodland I	261.96	167.79	✓	✓	---	✓	---	---		
		OG7											

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function	Location		Status				Rationale for Status	Minimum Distance to the Project Location
			Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
Savannah	A Savannah is a tallgrass prairie habitat that has tree cover between 25-60%, and are associated with the following ELC communities: TPS1 (Dry-Fresh Tallgrass Mixed Savannah Ecosite), TPS2 (Fresh-Moist Tallgrass Deciduous Savannah Ecosite), TPW1 (Dry-Fresh Black Oak Tallgrass Deciduous Woodland Ecosite), TPW2 (Fresh-Moist Tallgrass Deciduous Woodland Ecosite), CUS2 (Bedrock Cultural Savannah Ecosite). These communities must be restored or natural and must not be dominated by exotic or introduced species (<50% vegetative cover exotics).	Potential habitat does not exist within the Project Location or 50 m setback.	---	---	✓	---	---	---	ELC studies did not identify savannahs within the Project Location or 50 m setback.	N/A
Tallgrass Prairie	A tallgrass prairie has ground cover dominated by prairie grasses. An open tallgrass prairie habitat has less than 25% tree cover. This habitat is associated with the following communities: TPO1 (Dry Tallgrass Prairie Ecosite), TPO2 (Fresh-Moist Tallgrass Prairie Ecosite). These communities must be restored or natural.	Potential habitat does not exist within the Project Location or 50 m setback.	---	---	✓	---	---	---	ELC studies did not identify tallgrass prairies within the Project Location or 50 m setback.	N/A

Specialised Habitat for Wildlife

Waterfowl Nesting Area	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 dbh) in woodlands for cavity nest sites. Species of Conservation Concern: Canvasback Redhead	ID	ELC*						Deciduous Swamp (SWD), Meadow Marsh (MAM) and Shallow Marsh (MAS) Ecosites are found within the Project Location and the surrounding 50 m setback. Areas of upland communities (FOD, CUM, FOC) at least 120 m wide adjacent to wetlands (SWD) entirely within the 50 m setback area and therefore considered under Generalized Candidate Significant Wildlife Habitat. See Figure 7H and 7.	All candidate habitats are within the Project Location
		WNA1	Deciduous Swamp, Deciduous Forest, Mixed Forest	✓	✓	---	✓	---		
		WNA2	Deciduous Swamp, Coniferous Forest, Cultural Meadow	✓	✓	---	✓	---		
		WNA3	Deciduous Swamp, Cultural Meadow	✓	✓	---	✓	---		
		WNA4	Cultural Woodland, Coniferous Woodland, Deciduous Swamp	✓	✓	---	✓	---		
		WNA5	Coniferous Forest, Deciduous Swamp, Deciduous Forest	✓	✓	---	✓	---		
		WNA6	Cultural Thicket, Deciduous Swamp, Coniferous Forest	✓	✓	---	✓	---		
		WNA7	Deciduous Forest, Cultural Meadow, Deciduous Swamp	✓	✓	---	✓	---		
		WNA (Other)	Deciduous Forest; Cultural Meadow; Deciduous Swamp; Coniferous Forest,	---	✓	---	---	---		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function		Location		Status				Rationale for Status	Minimum Distance to the Project Location
				Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
Bald Eagle and Osprey Nesting, Foraging and Perching Habitat	Nests are associated with lakes, ponds, rivers or wetlands along 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 adjacent to rivers, lakes, ponds, and wetlands should be considered.	ID	ELC*							There are Forest (FO) and Swamp (SW) Ecosites that are immediately adjacent to rivers and suitable wetlands on and within 50 m of the Project Location. Nest of both species are very conspicuous, placed in the open, on dead trees or poles, over water. During the records review, Bald Eagle was not indicated as potential species in the Project Location or 50 m setback. Osprey was identified in the Records Review to potential exists based on Ontario Breeding Bird Atlas information, however no stick nests or Osprey was observed in the Project Location or 50 m setback. See Figure 7I and 7.	All candidate habitat is within the Project Location
		BEOS1	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	✓	✓	---	✓	---	---		
		BEOS2	Please refer to Table 8 for Vegetation Communities associated with Woodland AE	✓	✓	---	✓	---	---		
		BEOS3	Please refer to Table 8 for Vegetation Communities associated with Woodland BI	✓	✓	---	✓	---	---		
		BEOS4	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	✓	✓	---	✓	---	---		
		BEOS5	Please refer to Table 8 for Vegetation Communities associated with Woodland BS	✓	✓	---	✓	---	---		
		BEOS6	Please refer to Table 8 for Vegetation Communities associated with Woodland BT	✓	✓	---	✓	---	---		
		BEOS7	Please refer to Table 8 for Vegetation Communities associated with Woodland CY	✓	✓	---	✓	---	---		
		BEOS8	Please refer to Table 8 for Vegetation Communities associated with Woodland I	✓	✓	---	✓	---	---		
		BEOS9	Please refer to Table 8 for Vegetation Communities associated with Woodland EA	✓	✓	---	✓	---	---		
		BEOS (Other)	Please refer to Table 8 for Vegetation Communities associated with Woodland CW; W, DY; DR; CZ; CX; CA; BU; BP & BI.	---	✓	---	---	---	✓		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function				Location		Status				Rationale for Status	Minimum Distance to the Project Location
						Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
Woodland Raptor Nesting Habitat	Stick nests found in a variety of intermediate-aged to mature conifer, deciduous or mixed forests within tops or crotches of trees. Species such as Cooper’s Hawk nest along forest edges sometimes on peninsulas or small off-shore islands. In disturbed sites, nests may be used again or a new nest will be in close proximity to the old nest. Can be found in the following ELC communities: Forest (FO), Treed Swamp (SW), Coniferous Plantation (CUP3/TAGM1) that are >30 ha with >10 ha or interior habitat (interior habitat having a 200 m buffer of surrounding woodland and/or forest.	ID	ELC*	Total Size (ha)	Interior Habitat (ha)							Woodlands that occur partially within the Project Location include interior woodland habitat greater than 10 ha in size. See Figure 7J and 7.	All candidate habitats occur at least partially within the Project Location
		WRN1	Please refer to Table 8 for Vegetation Communities associated with Woodland I	261.96	98.47	✓	✓	---	✓	---	---		
		WRN2	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	1136.01	151.97	✓	✓	---	✓	---	---		
		WRN3	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	1774.24	498.88	✓	✓	---	✓	---	---	---	---
		WRN (Other)	Please refer to Table 8 for Vegetation Communities associated with Woodland AP	83.92	10.27	---	✓	---	---	---	✓	---	✓
	Turtle Nesting Areas	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, 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 <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). Species of Conservation Concern: Northern Map Turtle Common Snapping Turtle	ID	ELC									Exposed sand and gravel substrates in open, sunny areas were not identified <100m from the Meadow Marsh (MAM) or Shallow Marsh (MAO) communities of the Project Location and 50 m setback. Potential habitat exists at TNA1; however the area was not exhaustively searched during the site investigation field survey in 2016 due to health and safety concerns. Therefore this habitat will be carried forward into the <i>NHA EIS</i> . See Figure 7K
TNA1			Cattail Organic Shallow Marsh (37)			✓	✓	---	✓	---	---		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function		Location		Status				Rationale for Status	Minimum Distance to the Project Location
				Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
Seeps and Springs	Seeps and springs are areas where ground water comes to the surface, often in forested headwater areas. Any forested area (with <25% meadow, field, or pasture) within the headwaters of a stream or river system may have seeps or springs. Presence of a site with 2 or more seeps/springs should be considered SWH.	Seepage areas were found during field work within the 50 m setback area of the Project Location.		---	✓	---	---	---	✓	Three (3) seeps were identified within the 50 m setback area during site investigations and therefore considered under Generalized Candidate Significant Wildlife Habitat. See Figure 7 .	N/A
Amphibian Breeding Habitat (Wetland)	Wetlands and pools isolated from woodlands with 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 m ² or 25 m in diameter, and located >120 m from woodlands.	ID	ELC*							Swamp (SW) and Marsh (MA) features >500 m ² (~ 25m diameter) isolated from woodlands (>120m) are located on the Project Location and within the 50 m setback area may support breeding amphibians. Areas of Swamp and Marsh located entirely within the Project Location 50 m setback area are considered under Generalized Candidate Significant Wildlife Habitat See Figure 7L and 7 .	5 m
		ABHWE1	Narrow-leaved Sedge Graminoid Mineral Meadow Marsh (32)	---	✓	---	✓	---	---		
		ABHW (Other)	Swamp and Marsh communities exist within the Project Location setback	---	✓	---	---	---	✓		
Amphibian Breeding Habitat (Woodland)	The presence of a wetland, lake or pond within or adjacent to (within 120 m) a woodland that contains permanent ponds or contains water in most years until mid-July are most likely to be used as breeding habitat.	ID	ELC*							Wetlands and ponds were found within or adjacent to the portion of the forests and woodlands that are on the Project Location or within the 50 m setback. Areas of Deciduous Swamp (SWD), Thicket Swamp (SWT) and Meadow Marsh (MAM) located entirely within the Project Location 50 m setback area are considered under Generalized Candidate Significant Wildlife Habitat. See Figure 7M and 7 .	All candidate habitat is within the Project Location
		ABHWO1	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	✓	✓	---	✓	---	---		
		ABHWO2	Please refer to Table 8 for Vegetation Communities associated with Woodland AE, DZ & EA	✓	✓	---	✓	---	---		
		ABHWO3	Please refer to Table 8 for Vegetation Communities associated with Woodland B	✓	✓	---	✓	---	---		
		ABHWO4	Please refer to Table 8 for Vegetation Communities associated with Woodland BD	✓	✓	---	✓	---	---		
		ABHWO5	Please refer to Table 8 for Vegetation Communities associated with Woodland BI	✓	✓	---	✓	---	---		
		ABHWO6	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	✓	✓	---	✓	---	---		
		ABHWO7	Please refer to Table 8 for Vegetation Communities associated with Woodland BS	✓	✓	---	✓	---	---		
		ABHWO8	Please refer to Table 8 for Vegetation Communities associated with Woodland BT	✓	✓	---	✓	---	---		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function				Location		Status				Rationale for Status	Minimum Distance to the Project Location
						Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
		ABHWO9	Please refer to Table 8 for Vegetation Communities associated with Woodland CY			✓	✓	---	✓	---	---		
		ABHWO10	Please refer to Table 8 for Vegetation Communities associated with Woodland I			✓	✓	---	✓	---	---		
		ABHWO (Other)	Please refer to Table 8 for Vegetation Communities associated with Woodland CX, CY; DB; DN; DP; DQ; AB & BH			---	✓	---	---	---	✓		
Woodland Area-Sensitive Bird Breeding Habitat	This habitat includes all ecosites associated with Forest (FOC, FOM & FOM) and Swamp (SWC, SWM & SWD). Habitat where interior forest breeding birds are breeding, typically mature (>60 years old) forest stands or woodlots (>30 ha). Species of Conservation Concern: Canada Warbler	ID	ELC*	Total Size (ha)	Interior Habitat (ha)							Woodlands greater than 30 ha with interior forest 200 m from forest edge were found within the Project Location and within the 50 m setback. Woodlands that were found to meet the minimum requirement but solely within the 50 m setback area are considered under Generalized Candidate Significant Wildlife Habitat. See Figure 7N and 7.	All candidate habitat is within the Project Location boundary
		ASBB1	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	1774.24	498.88	✓	✓	---	✓	---	---		
		ASBB2	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	1136.01	151.97	✓	✓	---	✓	---	---		
		ASBB3	Please refer to Table 8 for Vegetation Communities associated with Woodland I	261.96	98.47	✓	✓	---	✓	---	---		
		ASBB4	Please refer to Table 8 for Vegetation Communities associated with Woodland L	132.37	1.58	✓	✓	---	✓	---	---		
		ASBB5	Please refer to Table 8 for Vegetation Communities associated with Woodland AP	83.92	10.27	✓	✓	---	✓	---	---		
		ASBB (Other)	Please refer to Table 8 for Vegetation Communities associated with Woodland CX & DB			---	✓	---	---	---	✓		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function	Location		Status				Rationale for Status	Minimum Distance to the Project Location	
			Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat			
Habitat of Species of Conservation Concern											
Marsh Breeding Bird Habitat General	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 Green Heron: SW (Swamp), MA (Marsh) and Meadow (ME). Species of Conservation Concern: Black Tern	ID	ELC*						Meadow Marsh (MA) ecosites are found within the Project Location and surrounding 50 m setback could provide habitat for marsh breeding birds. Meadow Marsh ecosites are found solely within the 50 m setback area are considered under Generalized Candidate Significant Wildlife Habitat See Figure 7O and 7.	All candidate habitat is within the Project Location Boundary	
		MBBH1	Reed Canary Grass Meadow Marsh (31)	✓	✓	---	✓	---			---
		MBBH2	Cattail Meadow Marsh (30)	✓	✓	---	✓	---			---
		MBBH3	Reed Canary Grass Meadow Marsh (35)	✓	✓	---	✓	---			---
		MBBH4	Reed Canary Grass Meadow Marsh (31)	✓	✓	---	✓	---			---
		MBBH5	Cattail Organic Shallow Marsh (37)	✓	✓	---	✓	---			---
		MBBH (Other)	Meadow Marsh	---	✓	---	---	---			✓
Marsh Breeding Bird Habitat Green Heron		ID	ELC*						Swamp (SW), Marsh (MA) and some upland shrubs/forest (CUM1) communities exist within the Project Location as well as the 50 m setback area. Swamp, Marsh and Upland communities exist solely within the 50m setback area are considered under Generalized Candidate Significant Wildlife Habitat. See Figure 7P and 7.	All candidate habitat is within the Project Location Boundary	
		GRHE1	Black Ash Deciduous Swamp (55); Reed Canary Grass Meadow Marsh (31)	✓	✓	---	✓	---			---
		GRHE2	Cattail Meadow Marsh (30)	✓	✓	---	✓	---			---
		GRHE3	Reed Canary Grass Meadow Marsh (35); Green Ash Deciduous Swamp (56); Willow Deciduous Thicket Swamp (62)	✓	✓	---	✓	---			---
		GRHE4	Maple Deciduous Swamp (57); Reed Canary Grass Meadow Marsh (31)	✓	✓	---	✓	---			---
		GRHE5	Mixed Meadow (40)	✓	✓	---	✓	---			---
		GRHE6	Maple Deciduous Swamp (57)	✓	✓	---	✓	---			---
		GRHE7	Deciduous Swamp (60)	✓	✓	---	✓	---			---
		GRHE8	Mixed meadow (40)	✓	✓	---	✓	---			---
		GRHE9	Cattail Meadow Marsh (34); Green Ash Deciduous Swamp (56); Mixed Meadow (41); Maple Deciduous Swamp (60); Bedrock Meadow Marsh (36)	✓	✓	---	✓	---			---
		GRHE10	Maple Deciduous Swamp (60); Mixed Meadow (41); Graminoid Meadow (39)	✓	✓	---	✓	---			---

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function		Location		Status				Rationale for Status	Minimum Distance to the Project Location
				Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
		GRHE11	Mixed Meadow (40)	✓	✓	---	✓	---	---		
		GRHE12	Cattail Organic Shallow Marsh (37)	✓	✓	---	✓	---	---		
		GRHE (Other)	Mixed Meadow (40;41) Meadow Marsh (31-39) and Deciduous Swamp (54-62)	---	✓	---	---	---	✓		
Open Country Bird Breeding Habitat	Large grassland areas (including natural and cultural fields and meadows) are important to support grassland breeding bird species. Grassland areas > 30 ha, and do not include Class 1 or Class 2 agricultural lands. Habitat does not include fields with row-cropping or intensive hay or livestock pasturing in the last 5 years. This habitat can be found in Meadows (ME).	Potential habitat exists within the Project Location as well as the 50 m setback.		---	---	✓	---	---	---	Large grasslands communities 30 ha or greater that are not being used for row crop, hay fields or livestock pasturing was not observed within the Project Location or 50 m setback area (see Appendix B for ELC polygon sizes).	N/A
Shrub/Early Successional Bird Breeding Habitat	Oldfield areas succeeding to shrub and thicket habitats >10 ha, that are not Class 1 or Class 2 agricultural lands, with no row-cropping or intensive hay or livestock pasturing in the last 5 years. This habitat can be found in Thickets (TH; or CUT1 as per the first approximation ELC community code) and Woodland (WOC and RBT; or CUW2 as per first approximation ELC community code). Species of Conservation Concern: Golden-winged Warbler	Potential habitat does not exists within the Project Location as well as the 50 m setback area.		---	---	✓	---	---	---	Old fields or Meadows (MEG, MEM, CUT1) succeeding thicket communities (TH) >10ha that are not being used for row crop, hay fields or livestock pasturing was not observed within the Project Location or 50 m setback area (see Appendix B for ELC polygon sizes).	N/A
Terrestrial Crayfish	Terrestrial crayfish are typically found within south-western Ontario in Canada and their habitats are very rare.	Potential habitat exists within the Project Location as well as the 50 m setback area (TC1).		✓	✓	---	✓	---	---	Potential habitat to be considered within the Cattail Marsh community (ELC code MAS3-1) within the Mud Creek PSW) located within Project Location as well as the 50 m setback. See Figure 7Q	Candidate habitat is within the Project Location.

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function	Location		Status				Rationale for Status	Minimum Distance to the Project Location	
			Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat			
Special Concern and Rare Wildlife Species											
Common Nighthawk	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.	ID	ELC*							There are several areas on the Project Location and within the 50 m setback that will be considered candidate Significant Wildlife Habitat for Common Nighthawk. See Figure 7R and 7 .	All candidate habitats, with the exception of CN2, are within the Project Location. CN2 is 0 m from the boundary.
		CN1	Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---	---		
		CN2	Red Cedar Alvar Woodland (51)	---	✓	---	✓	---	---		
		CN3	Dry Lichen-Moss Open Alvar Pavement (47); Poverty Grass Open Alvar Meadow (73); Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---	---		
		CN4	Open Alvar Rock Barren(48); Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---	---		
		CN5	Alvar Shrub Rock Barren (50)	✓	✓	---	✓	---	---		
		CN6	Alvar Shrub Rock Barren (50)	✓	✓	---	✓	---	---		
		CN7	Sugar Maple-Hardwood Calcareous Shallow Deciduous Forest (72); Fresh Poplar Mixed Forest (27); Alvar Shrub Rock Barren (50); Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---	---		
		CN8	Red Cedar Alvar Woodland (51)	✓	✓	---	✓	---	---		
		CN9	Red Cedar Alvar Woodland (51)	✓	---	---	✓	---	---		
		CN10	Red Cedar Alvar Woodland (51); Bedrock Mixed Meadow (42)	✓	✓	---	✓	---	---		
		CN11	White Cedar Calcareous Bedrock Coniferous Forest (11)	✓	✓	---	✓	---	---		
		CN12	Bedrock Mixed Meadow (42)	✓	✓	---	✓	---	---		
		CN13	Red Cedar Alvar Woodland (51); Open Alvar Rock Barren (48)	✓	✓	---	✓	---	---		
		CN (Other)	Red Cedar Alvar Woodland (51); Dry Lichen-Moss Open Alvar Pavement(47)	---	✓	---	---	---	✓		

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function	Location		Status				Rationale for Status	Minimum Distance to the Project Location		
			Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat				
Woodland Specific Bird Species of Special Concern	Species of Conservation Concern: Red-headed Woodpecker (RHWO) 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 territory. Eastern Wood-Pewee (EAWP) The Eastern Wood-Pewee lives in forest clearings and forest edges predominated by oak with little understory including mature woodlands, roadsides, woodlots, farm woodlots and orchards.	ID	ELC*							There are several areas on the Project Location and within 50 m the setback that will be considered candidate Significant Wildlife Habitat for Red-headed Woodpecker and Eastern Wood-Pewee. See Figure 7S and 7 .	All candidate habitats are within the Project Location	
		RHWO1 EAWO1	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	✓	✓	---	✓	---	---			
		RHWO2 EAWP2	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	✓	✓	---	✓	---	---			
		RHWO3 EAWP3	Please refer to Table 8 for Vegetation Communities associated with Woodland AE	✓	✓	---	✓	---	---			
		RHWO4 EAWP4	Please refer to Table 8 for Vegetation Communities associated with Woodland I	✓	✓	---	✓	---	---			
		RHWO5 EAWP5	Please refer to Table 8 for Vegetation Communities associated with Woodland L	✓	✓	---	✓	---	---			
		RHWO6 EAWP6	Please refer to Table 8 for Vegetation Communities associated with Woodland F	✓	✓	---	✓	---	---			
		RHWO7 EAWP7	Please refer to Table 8 for Vegetation Communities associated with Woodland B	✓	✓	---	✓	---	---			
		RHWO EAWP (Other)	Please refer to Table 8 for Vegetation Communities associated with Woodland AB, BD & CI	✓	✓	---	---	---	✓			
		ID	ELC*									
	Wood Thrush	The Wood Thrush lives in Carolinian and Great Lakes-St. Lawrence forest zones with undisturbed moist mature deciduous or mixed forest with deciduous sapling growth. Habitat is generally near ponds or swamps along hardwood forest edges.	WOTH1	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	✓	✓	---	✓	---	---	There are several areas on the Project Location and within 50 m the setback that will be considered candidate Significant Wildlife Habitat for Wood Thrush. See Figure 7T .	All habitats are within the Project Location
		WOTH2	Please refer to Table 8 for Vegetation Communities associated with Woodland BI	✓	✓	---	✓	---	---			
		WOTH3	Please refer to Table 8 for Vegetation Communities associated with Woodland AE	✓	✓	---	✓	---	---			
		WOTH4	Please refer to Table 8 for Vegetation Communities associated with Woodland I	✓	✓	---	✓	---	---			
		WOTH5	Please refer to Table 8 for Vegetation Communities associated with Woodland B	✓	✓	---	✓	---	---			
Large Yellow Pond Lily	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.	Potential habitat exists in the OAO: Open Aquatic Area within the 50m setback of the Project Location.		✓	✓	---	✓	---	---	There are several areas within Project Location that will be considered candidate Significant Wildlife Habitat for Large Yellow Pond Lily. See Figure 7U .	Within Project location	

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function	Location		Status				Rationale for Status	Minimum Distance to the Project Location		
			Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat				
Butterfly Species of Special Concern	Species of Conservation Concern: <u>Juniper Hairstreak (JH)</u> 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.	ID	ELC*						<p>Juniper hairstreak prefers juniper species during the breeding season as their caterpillar host. Ground juniper occurs in 10 of the 73 ELC communities (10, 16, 27, 40, 42, 48, 49, 50, 51, and 52). Please refer to Table 6 for the ELC species composition and Figure 4 for ELC community locations within the Project Location. See Figure 7V</p> <p>As ground juniper occur ubiquitously throughout the Project Location, the entire Project Location is treated as candidate Significant Wildlife Habitat.</p> <p>Note: habitat for the Monarch butterfly was not observed as there was a general lack of milkweed recorded in the area of the Project.</p> <p>Of the ELC communities listed above in Table 6 that contain milkweed (38, 50 & 51) in the general habitat description, the occurrence of milkweed throughout the Project Location was rare.</p>	See Table on Figure 7V		
		JH1	Mixed Meadow (40); Bedrock Mixed Meadow (42)		✓	✓	---	✓			---	---
		JH2	Bedrock Mixed Meadow (42)		✓	✓	---	✓			---	---
		JH3	Bedrock Mixed Meadow (42)		✓	✓	---	✓			---	---
		JH4	Mixed Meadow (40)		✓	✓	---	✓			---	---
		JH5	Mixed Meadow (40)		✓	✓	---	✓			---	---
		JH6	Red Cedar Alvar Woodland (51)		✓	✓	---	✓			---	---
		JH7	Red Cedar Alvar Woodland (51)		---	✓	---	✓			---	---
		JH8	Red Cedar Alvar Woodland (51); Alvar Rock Barren (48); White Cedar Coniferous Forest (10)		---	✓	---	✓			---	---
		JH9	Red Cedar Alvar Woodland (51); Bedrock Mixed Meadow (42); Poplar Mixed Forest (27); Alvar Shrub Rock Barren (50)		---	✓	---	✓			---	---
		JH10	Bedrock Mixed Meadow (42)		✓	✓	---	✓			---	---
		JH11	Alvar Shrub Rock Barren (50)		✓	✓	---	✓			---	---
		JH12	Alvar Shrub Rock Barren (50)		✓	✓	---	✓			---	---
		JH13	Alvar Shrub Rock Barren (50); Alvar Cedar Alvar Woodland (51); Open Alvar Rock Barren (48); Red Cedar Treed Alvar (52); Poplar Mixed Forest (27)		✓	✓	---	✓			---	---
		JH14	Alvar Cedar Alvar Woodland (51);		✓	✓	---	✓			---	---
		JH15	Poplar Mixed Forest (27)			✓	---	✓			---	---
		JH16	Mixed Meadow (40)		✓	✓	---	✓			---	---
		JH17	Red Cedar Alvar Woodland (51)		✓	✓	---	✓			---	---
		JH18	Red Cedar Alvar Woodland (51)		---	✓	---	✓			---	---
		JH19	Bedrock Mixed Meadow (42)		---	✓	---	✓			---	---
		JH20	Mixed Meadow (40)		---	✓	---	✓			---	---
		JH21	Common Juniper Shrub Alvar (49); Sugar Maple-Ironwood Deciduous Forest (16)		✓	✓	---	✓			---	---
		JH22	Mixed Meadow (40)		✓	✓	---	✓			---	---

Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function		Location		Status				Rationale for Status	Minimum Distance to the Project Location
				Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat		
		JH23	Red Cedar Alvar Woodland (51); Sugar Maple-Ironwood Deciduous Forest (16)	✓	✓	---	✓	---	---		
		JH24	Bedrock Mixed Meadow (42)	✓	✓	---	✓	---	---		
		JH25	Mixed Meadow (40)	---	✓	---	✓	---	---		
		JH26	Mixed Meadow (40)	✓	✓	---	✓	---	---		
		JH27	Mixed Meadow (40)	---	✓	---	✓	---	---		
		JH28	Mixed Meadow (40)	---	✓	---	✓	---	---		
Animal Movement Corridors											
Amphibians	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 is confirmed as significant wildlife habitat. Corridors may be found in all ecosites associated with water. Corridors should be at least 200 m wide with gaps <20 m, and, if following riparian area, with at least 15 m of vegetation on both sides of waterway.	Potential habitat exists both within the Project Location and 50 m setback between where a unit of candidate wetland amphibian breeding habitat occurs in isolation from a woodland. The candidate amphibian corridor would be the space between the woodland and the wetland amphibian breeding habitat. Please note, amphibian corridors are only considered once wetland Amphibian Breeding Habitat has been evaluated as significant. Until this type of wildlife habitat is evaluated, amphibian corridors are carried forward in this NHA as candidate.		✓	---	---	✓	---	---	There are areas within the Project Location and 50 m setback area between candidate wetland amphibian breeding habitats and woodland habitat that may be suitable amphibian movement corridors. These candidate habitats cannot be assessed until further studies confirm the significance of the candidate wetland Amphibian Breeding Habitats. Based on this, candidate amphibian corridors will be brought forward as candidate Significant Wildlife Habitat. See Figure 7W .	Within the Project Location
Deer	Movement corridors must be determined when deer wintering habitat is confirmed as significant wildlife habitat. Corridors may be found in all forested ecosites. Corridors typically follow riparian areas, woodlots, and areas of physical geography (ravines or ridges). Corridors that lead to a deer wintering yard should be unbroken by roads and residential areas, and should be at least 200 m wide with games <20m, and, if following riparian area, with at least 15 m of vegetation on both sides of waterway.	Potential habitat does not exist within the Project Location or 50 m setback.		N/A	---	✓	---	---	---	MNR did not identify significant deer wintering areas in or within 50 m of the Project Location or 50 m setback, thus deer movement corridors are not located within the Project Location or 50 m setback. Deer winter congregation area was carried forward for Site Investigation, however corridor characteristics connecting this wildlife habitat to other deer habitat area absent (ex. riparian areas, ravines, ridges, corridor routes unbroken by roads and residential areas, etc.)	N/A

* Refer to **Table 6** for Ecosystem Land Classification (ELC) Attributes Condition, Function and Vegetation Composition.

Of the wildlife habitat reviewed during the site investigation work, the following habitats have been determined to be *candidate significant wildlife habitat*:

Seasonal Concentration Areas:

- Waterfowl Stopover and Staging Areas (Terrestrial)
- Waterfowl Stopover and Staging Areas (Aquatic)
- Turtle Wintering Area
- Reptile Hibernaculum
- Colonially Nesting Bird Breeding Habitat (Tree/Shrub)
- Colonially Nesting Bird Breeding Habitat (Ground)

Rare Vegetation Communities:

- Alvar
- Old Growth Forest

Specialised Habitats for Wildlife:

- Waterfowl Nesting Area
- Bald Eagle & Osprey Nesting, Foraging and Perching Habitat
- Woodland Raptor Nesting Habitat
- Turtle Nesting Areas
- Amphibian Breeding Habitat (Wetland)
- Amphibian Breeding Habitat (Woodland)
- Woodland Area-Sensitive Bird Breeding Habitat

Habitat of Species of Conservation Concern:

- Marsh Breeding Bird Habitat (General)
- Marsh Breeding Bird Habitat (Green Heron)
- Terrestrial Crayfish

Special Concern and Rare Wildlife Species:

- Common Nighthawk
- Woodland Specific Bird Species of Special Concern (Red-headed Woodpecker; Eastern Wood-Pewee)
- Wood Thrush
- Large Yellow Pond Lily
- Butterfly Species of Conservation Concern

Animal Movement Corridors

- Amphibians

Other wildlife habitat that are located entirely outside of the Project Location but occur at least partially within the 50 m setback area and are not likely to be affected by Project components typically found within a solar facility will be categorized as “Generalized Candidate Significant Wildlife Habitat”, as outlined in *Appendix D* of the Natural Heritage Assessment Guide for Renewable Energy Projects (MNR 2012), and will be treated as significant in the subsequent *NHA Evaluation of Significance Report*.

8.0 Summary of Amendments to the Records Review

Based on the results of the site investigations, the boundaries and extent of all natural features were confirmed and/ or refined. From a comparison of the features identified during the records review and the observations made during the site investigation, there are amendments required with respect to the natural features determined to exist within the Project Location and 50 m setback. These amendments apply to the size and location of woodland and wetland features and the addition of candidate and generalized candidate significant wildlife habitat. These amendments have been made to the mapping prepared during the records review (**Figure 3**).

Table 10 identifies any necessary corrections to the determinations made during the *NHA Records Review Report*, including the addition of natural features, the absence of natural features identified during the records review, and the amendments to boundaries of relevant natural features located within 50 m of the Project Location.

Table 10: Amendments to the Natural Heritage Assessment Records Review

Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
Wetlands					
Unevaluated Wetland #1	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Hinch Swamp Complex PSW #4	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised. Project Location boundary amended to exclude this feature.
Unevaluated Wetland #5	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m. Feature reclassified as woodland.
Unevaluated Wetland #10	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m. Feature reclassified as woodland.
Mud Creek PSW Wetland #11	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised. Project Location boundary amended to exclude this feature.
Unevaluated Wetland #13	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m. Feature reclassified as woodland.
Unevaluated Wetland #14	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m. Feature reclassified as woodland.
Unevaluated Wetland #15	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m. Feature reclassified as woodland.
Unevaluated Wetland #17	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundary revised. Wetland now part of Wetland 18.
Unevaluated Wetland #18	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundary revised and merged with Wetlands 17, 21, 38 and 39.
Unevaluated Wetland #19	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #20	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #21	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Wetland 18.
Unevaluated Wetland #22	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #23	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #25	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #26	Yes	Yes	NHA SI Wetland Delineation Field Survey	No	Boundaries of wetland revised.
Unevaluated Wetland #28	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #30	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised. No longer within Project Location.
Unevaluated Wetland #31	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised. No longer within Project Location.
Unevaluated Wetland #33	Yes	Yes	NHA SI Wetland Delineation Field Survey	No	Boundaries of wetland revised.
Unevaluated Wetland #34	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #37	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #38	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundary revised. Wetland now part of Wetland 18.

Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
Unevaluated Wetland #39	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundary revised. Wetland now part of Wetland 18.
Unevaluated Wetland #40	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Roblin Swamp Wetland #41	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #42	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #43	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #44	Yes	No	NHA SI Wetland Delineation Field Survey	Yes	Amendment not required.
Unevaluated Wetland #45	Yes	No	NHA SI Wetland Delineation Field Survey	Yes	Amendment not required.
Unevaluated Wetland #48	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #49	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #54	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #56	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #57	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #58	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #60	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #61	Yes	Yes	NHA SI Wetland Delineation Field Survey	No	Boundaries of wetland revised.
Unevaluated Wetland #62	Yes	Yes	NHA SI Wetland Delineation Field Survey	No	Boundaries of wetland revised.
Unevaluated Wetland #71	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #72	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #73	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #75	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #77	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #78	Yes	Yes	NHA SI Wetland Delineation Field Survey	No	Boundaries of wetland revised.
Unevaluated Wetland #79	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #80	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #83	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #85	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #86	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Pennell's Creek PSW #88	Yes	Yes	NHA SI Wetland Delineation Field Survey	No	Boundaries of wetland revised.
Unevaluated Wetland #90	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.

Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
Unevaluated Wetland #91	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #92	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #94	Yes	Yes	NHA SI Wetland Delineation Field Survey	No	Boundaries of wetland revised.
Unevaluated Wetland #96	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #97	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised. Included in 96.
Unevaluated Wetland #99	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #100	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #101	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #102	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #103	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Mud Creek PSW Wetland #104	Yes	Yes	NHA SI Wetland Delineation Field Survey	N/A	Boundaries of wetland revised. Previously combined with Wetland #4
Unevaluated Wetland #105	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #106	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #108	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #109	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #110	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #111	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #112	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #113	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #114	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #115	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #116	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #117	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #118	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #119	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #120	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #121	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #122	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #123	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland

Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
Unevaluated Wetland #124	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #125	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Biddy's Lake PSW #126	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #127	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Woodlands					
AA	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Woodland confirmed to not occur within Project Location or surrounding 50 m.
AB	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Includes Woodland previously identified as AC.
AC	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland AB.
AD	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised and merged with Woodlands AL, AO, AW, AX, AZ, BA and BE.
AE	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised and merged with Woodlands AH and AJ.
AH	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland AE
AI	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Woodland confirmed to not occur within Project Location or surrounding 50 m.
AJ	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland AE
AL	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland AD.
AO	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland AD.
AP	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised.
AQ	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised.
AS	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Woodland confirmed to not occur within Project Location or surrounding 50 m.
AT	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Woodland confirmed to not occur within Project Location or surrounding 50 m.
AV	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Woodland confirmed to not occur within Project Location or surrounding 50 m.
AW	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland AD.
AX	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland AD.
AZ	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland AD.
B	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BA	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland AD.
BB	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Woodland confirmed to not occur within Project Location or surrounding 50 m.
BC	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BD	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BE	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland AD.

Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
BF	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BG	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BH	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BI	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BL	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Woodland confirmed to not occur within Project Location or surrounding 50 m.
BM	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised and merged with Woodlands BN, BO, CD, CE, CF, CH, CJ, CK, CL, CM, CO, CR, CS, CU, and CV.
BN	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
BO	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
BP	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
BS	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
BT	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised
BU	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised
CA	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
CD	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CE	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CF	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CH	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland BM.
CI	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
CJ	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland BM.
CK	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CL	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CM	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CN	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
CO	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CR	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland BM.
CS	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland BM.
CU	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CV	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland BM.
CW	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised

Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
CX	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
CY	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised
CZ	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
F	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
I	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised and merged with Woodland J
J	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland I.
L	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised and merged with Woodlands M, N and O.
M	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland L.
N	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland L.
O	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland L.
P	Yes	N/A	NHA SI Woodland Delineation Field Survey	Yes	No longer within the Project Location or surrounding 50 m.
T	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Woodland confirmed to not occur within Project Location or surrounding 50 m.
W	Yes	N/A	NHA SI Woodland Delineation Field Survey	Yes	No longer within the Project Location or surrounding 50 m.
X	Yes	N/A	NHA SI Woodland Delineation Field Survey	Yes	No longer within the Project Location or surrounding 50 m.
Y	Yes	N/A	NHA SI Woodland Delineation Field Survey	Yes	No longer within the Project Location or surrounding 50 m.
DB	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DD	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DF	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DI	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DL	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DM	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DN	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DO	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DP	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DQ	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DR	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DS	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DT	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DU	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.

Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
DV	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DX	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DY	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
DZ	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
EA	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previously unmapped woodland.
Wildlife Habitat					
Seasonal Concentration Areas					
Waterfowl Stopover and Staging Areas (Terrestrial)	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Waterfowl Stopover and Staging Areas (Terrestrial) within the Project Location. Candidate Significant Wildlife Habitat for Waterfowl Stopover and Staging Areas (Terrestrial) within 50 m of the Project Location has been included as Generalized Candidate Significant Wildlife Habitat
Waterfowl Stopover and Staging Areas (Aquatic)	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Waterfowl Stopover and Staging Areas (Aquatic) within the Project Location. Candidate Significant Wildlife Habitat for Waterfowl Stopover and Staging Areas (Aquatic) within 50 m of the Project Location has been included as Generalized Candidate Significant Wildlife Habitat.
Shorebird Migratory Stopover Areas	No	Yes	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback.
Raptor Wintering Area	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback
Bat Hibernacula	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback
Bat Maternity Colonies	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback
Turtle Wintering Areas	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Turtle Wintering Areas within the Project Location. Candidate Significant Wildlife Habitat for Turtle Wintering Areas within 50 m of the Project Location has been included as well as Generalized Candidate Significant Wildlife Habitat.
Reptile (Snake) Hibernaculum	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Reptile Hibernaculum within the Project Location. Candidate Significant Wildlife Habitat for Reptile Hibernaculum within 50 m of an overhead or underground line that is part of the Project Location has been included as Generalized Candidate Significant Wildlife Habitat
Colonially- Nesting Bird Breeding Habitat (Bank and Cliff)	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback.
Colonially- Nesting Bird Breeding Habitat (Tree/ Shrubs)	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Colonially- Nesting Bird Breeding Habitat (Tree/ Shrubs) within the Project Location or within 50 m.
Colonially- Nesting Bird Breeding Habitat (Ground)	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Colonially- Nesting Bird Breeding Habitat (Ground) within the Project Location or within 50 m .
Deer Winter Congregation Areas	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback.

Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
Rare Vegetation Communities					
Cliffs and Talus Slopes	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback.
Sand Barren	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback.
Alvar	Yes	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Alvar within the Project Location and 50 m setback.
Old Growth Forest	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Old Growth Forest within the Project Location and 50 m setback.
Savannah	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback.
Tallgrass Prairie	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback.
Specialised Habitat for Wildlife					
Waterfowl Nesting Area	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Waterfowl Nesting within the Project Location. Candidate Significant Wildlife Habitat for Waterfowl Nesting within 50 m of the Project Location has been included as Generalized Candidate Significant Wildlife Habitat.
Bald Eagle and Osprey Nesting, Foraging and Perching Habitat	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Bald Eagle and Osprey Nesting, Foraging and Perching Habitat within the Project Location. Candidate Significant Wildlife Habitat for Bald Eagle and Osprey Nesting, Foraging and Perching Habitat within 50 m of the Project Location has been included as Generalized Candidate Significant Wildlife Habitat.
Woodland Raptor Nesting Habitat	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Raptor Nesting within the Project Location. Candidate Significant Wildlife Habitat for Raptor Nesting within 50 m of the Project Location has been included as Generalized Candidate Significant Wildlife Habitat.
Turtle Nesting Areas	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Turtle Nesting Area within the Project Location.
Seeps and Springs	No	Yes	Site Investigation	N/A	Candidate Significant Wildlife Habitat for Seeps and Springs within 50 m of the Project Location has been included as Generalized Candidate Significant Wildlife Habitat.
Amphibian Breeding Habitat (Wetland)	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Amphibian Breeding Habitat (Wetland) within the 50 m setback of the Project Location where roads may be constructed. Candidate Significant Wildlife Habitat for Amphibian Breeding Habitat (Wetland) within 50 m of other Project components in the Project Location has been included as Generalized Candidate Significant Wildlife Habitat.
Amphibian Breeding Habitat (Woodland)	No	Yes	Site Investigation	Yes	Addition of Candidate Significant Wildlife Habitat for Amphibian Breeding Habitat (Woodland) within the Project Location and/or 50 m where roads may be constructed. Candidate Significant Wildlife Habitat for Amphibian Breeding Habitat (Woodland) within 50 m of other Project components in the Project Location has been included as Generalized Candidate Significant Wildlife Habitat.
Woodland Area-Sensitive Bird Breeding Habitat	No	Yes	Site Investigation	Yes	Addition of Candidate Significant Wildlife Habitat for Woodland Area-Sensitive Bird Breeding Habitat within Project Location. Candidate Significant Wildlife Habitat for Woodland Area-Sensitive Bird Breeding Habitat within 50 m of the Project Location has been included as Generalized Candidate Significant Wildlife Habitat.

Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
Habitat of Species of Conservation Concern					
Marsh Breeding Bird Habitat	No	Yes	Site Investigation	Yes	Addition of Candidate Significant Wildlife Habitat for Marsh Breeding Bird Habitat within the Project Location.
Open Country Bird Breeding Habitat	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback.
Shrub/Early Successional Bird Breeding Habitat	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback.
Terrestrial Crayfish	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Terrestrial Crayfish within the Project Location.
Special Concern and Rare Wildlife Species					
Common Nighthawk	No	Yes	Site Investigation	Yes	Addition of Candidate Significant Wildlife Habitat for Common Nighthawk within the Project Location. Candidate Significant Wildlife Habitat for Common Nighthawk within 50 m of the Project Location, with the exception of CN2, has been included as Generalized Candidate Significant Wildlife Habitat. CN2 is 0 m from the Project Location boundary.
Woodland Specific Bird Species of Special Concern (Redheaded Woodpecker and Eastern Wood-Pewee)	No	Yes	Site Investigation	Yes	Addition of Candidate Significant Wildlife Habitat for Redheaded Woodpecker and Eastern Wood-Pewee within the Project Location. Candidate Significant Wildlife Habitat for Redheaded Woodpecker and Eastern Wood-Pewee where the dripline is within the Project Location, but Woodlands would not be impacted by development, has been included as Generalized Candidate Significant Wildlife Habitat.
Wood Thrush	No	Yes	Site Investigation	Yes	Addition of Candidate Significant Wildlife Habitat for Wood Thrush within the Project Location. Candidate Significant Wildlife Habitat for Wood Thrush within 50 m of the Project Location has been included as Generalized Candidate Significant Wildlife Habitat.
Large Yellow Pond Lily	No	Yes	Site Investigation	Yes	Addition of Candidate Significant Wildlife Habitat for Large Yellow Pond Lily within the Project Location.
Butterfly Species of Conservation Concern	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat for Butterfly Species of Conservation Concern within the Project Location.
Animal Movement Corridors					
Amphibians Movement Corridors	No	Yes	Site Investigation	Yes	Addition of Candidate Significant Wildlife Habitat for Amphibian Movement Corridor within the Project Location.
Deer Movement Corridors	No	No	Site Investigation	N/A	Candidate habitat does not exist within the Project Location or 50 m setback.

9.0

Conclusion

This report is intended to fulfill requirements for the *NHA Site Investigation Report* under *Ontario Regulation 359/09*. Based on the results of the site investigations, this report identified the accuracy of the records review, the addition of any previously unidentified natural features, the boundaries of natural features located within 50 m of the Project Location, and the distance of the natural feature from the Project Location (**Figures 7A-7W**).

This *NHA Site Investigation Report* is the second report in a series that will fulfill the *NHA* component of the REA process. Site investigations were carried out based on the results of a completed records review as well as consultation with the MNRF. Applicable natural features identified as being within the Project Location or surrounding 50 m will require an evaluation of significance based on information confirmed during the records review, site investigation and in consultation with appropriate agencies. The natural features applicable to the Project are identified in **Table 11** and will be evaluated in the *NHA Evaluation of Significance Report*.

Table 11: Identified Natural Features Associated with the Project Location and Surrounding 50 m

Natural Feature ID	Feature in Relation to Project Location		Evaluation of Significance Status		
	Within	Within Prescribed Setback (50 m)	Requires Evaluation	Previously Evaluated	Evaluation not Required*
Wetlands					
Mud Creek Provincially Significant Wetland (11, 104)	Yes	Yes	No	Yes	N/A
Hinch Swamp Complex 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					
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

Natural Feature ID	Feature in Relation to Project Location		Evaluation of Significance Status		
	Within	Within Prescribed Setback (50 m)	Requires Evaluation	Previously Evaluated	Evaluation not Required*
<i>Rare Vegetation Communities</i>					
Alvar (ALV1-21)	Yes	Yes	Yes	No	N/A
Old Growth Forest (OG1-7)	Yes	Yes	Yes	No	N/A
<i>Specialized Habitat for Wildlife</i>					
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; ABHWO1-10)	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
<i>Habitat of Species of Conservation Concern</i>					
Marsh Breeding Bird Habitat (MBBH1-5)	Yes	Yes	Yes	No	N/A
Marsh Breeding Bird Habitat (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

Natural Feature ID	Feature in Relation to Project Location		Evaluation of Significance Status		
	Within	Within Prescribed Setback (50 m)	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 (MBB Other)	No	Yes	No	No	Yes
Marsh Breeding Bird Habitat (GRHE Other)	No	Yes	No	No	Yes
Common Nighthawk (CN Other)	No	Yes	No	No	Yes
Red-headed Woodpecker (RHW Other)	No	Yes	No	No	Yes
Turtle Wintering Areas	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 is located entirely within the 50 m setback or it is assumed significant (i.e., studies to verify provincial significance will not be undertaken or wildlife habitat has been deemed largely unimpacted by the development of a solar facility). **Wetlands located within 50 m of the Project Location 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 Projects the (MNRF 2012).

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Appendix A

Field Notes



Ontario

Ministry of Natural Resources and Forestry
Make-a-Map: Natural Heritage Areas

PIN451400097 - NAP160

Notes:
Enter map notes



Legend

- Administrative Boundary
- Vegetation
- Conservation Reserve
- Municipal Boundary
- Natural Heritage System
- Geological
- Wildlife
- Provincially Significant Wetland Evaluation
- Nature Preserving Significance Wetland Evaluation
- Unincorporated Wetland
- Area of Natural Heritage & Scientific Interest (ANNHSI)
- Provincially Significant Life Science Area
- Provincially Significant Life Science Area
- Greenbelt Plan
- Boundary
- Land Use Designations
- Reduced Coverage
- Timberland Values
- Highways
- Urban Rural (UR)
- Special Use Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Major Resource Elevation Area
- Escarpment Recreation Area
- Urban Area
- Moor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Language Area
- Quaternary Area
- Rural Settlement
- Polymers Station
- Recreational Community
- Settlement Area

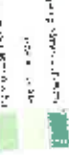
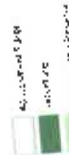


Projection: Web Mercator

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Legend

- [illegible]

<p>ELC</p> <p>STAND CHARACTERISTICS</p>	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

[illegible]

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE:	POLYGON:		
	SURVEYOR(S): RMG DLG	DATE: Jan 16	TIME: start finish	UTM:
	UTMZ:	UTME:	UTMN:	

POLYGON	DESCRIPTION
---------	-------------

POLYGON DESCRIPTION			TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY	
SYSTEM	TERRESTRIAL	G ORGANIC	G AQUATRINE	G NATURAL	G PLANKTON	G LAKE	
	G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND	
SITE	G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER	
		G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM	
		G BASIC BEDRK.	G VALLEY SLOPE		G POND	G MARSH	
			G TABLELAND		G LICHEN	G SWAMP	
			G ROLL. UPLAND		G BRYOPHYTE	G FEN	
		G CARB. BEDRK.	G CLIFF		G DECIDUOUS	G BOG	
			G TALUS	G CREVICE / CAVE		G CONSPEROUS	G BARREN
			G ALVAR		G MIXED	G MEADOW	
			G ROCKLAND	COVER		G THICKET	G PRAIRIE
			G BEACH / BAR		G OPEN	G SAVANNAH	
	G SURFICIAL DEP.	G SAND DUNE	G SHRUB		G WOODLAND		
		G BLUFF	G TREED		G FOREST		
	G BEDROCK				G PLANTATION		

STAND DESCRIPTION:

LAYER		HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 spp) (>>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	2	Red Cedar >> White Ash == Oak Apple
2	SUB-CANOPY	4	3	P. Ash > Red Cedar
3	UNDERSTOREY	5	4	Juniper >> Golden rod = G. Yellow Asp
4	GRD. LAYER	6	1	Claytonia > Cowslip

HT CODES:

1 ≥ 25 m 2 ≥ 10 HT ≥ 25 m 3 ≥ 2 HT ≥ 10 m 4 ≥ 1 HT ≥ 2 m 5 ≥ 0.5 HT ≥ 1 m 6 ≥ 0.2 HT ≥ 0.5 m 7 ≥ 0.1 HT ≥ 0.2 m 8 ≥ 0.05 HT ≥ 0.1 m 9 ≥ 0.02 HT ≥ 0.05 m 10 ≥ 0.01 HT ≥ 0.02 m 11 ≥ 0.005 HT ≥ 0.01 m 12 ≥ 0.002 HT ≥ 0.005 m 13 ≥ 0.001 HT ≥ 0.002 m 14 ≥ 0.0005 HT ≥ 0.001 m 15 ≥ 0.0002 HT ≥ 0.0005 m 16 ≥ 0.0001 HT ≥ 0.0002 m 17 ≥ 0.00005 HT ≥ 0.0001 m 18 ≥ 0.00002 HT ≥ 0.00005 m 19 ≥ 0.00001 HT ≥ 0.00002 m 20 ≥ 0.000005 HT ≥ 0.00001 m 21 ≥ 0.000002 HT ≥ 0.000005 m 22 ≥ 0.000001 HT ≥ 0.000002 m 23 ≥ 0.0000005 HT ≥ 0.000001 m 24 ≥ 0.0000002 HT ≥ 0.0000005 m 25 ≥ 0.0000001 HT ≥ 0.0000002 m 26 ≥ 0.00000005 HT ≥ 0.0000001 m 27 ≥ 0.00000002 HT ≥ 0.00000005 m 28 ≥ 0.00000001 HT ≥ 0.00000002 m 29 ≥ 0.000000005 HT ≥ 0.00000001 m 30 ≥ 0.000000002 HT ≥ 0.000000005 m 31 ≥ 0.000000001 HT ≥ 0.000000002 m 32 ≥ 0.0000000005 HT ≥ 0.000000001 m 33 ≥ 0.0000000002 HT ≥ 0.0000000005 m 34 ≥ 0.0000000001 HT ≥ 0.0000000002 m 35 ≥ 0.00000000005 HT ≥ 0.0000000001 m 36 ≥ 0.00000000002 HT ≥ 0.00000000005 m 37 ≥ 0.00000000001 HT ≥ 0.00000000002 m 38 ≥ 0.000000000005 HT ≥ 0.00000000001 m 39 ≥ 0.000000000002 HT ≥ 0.000000000005 m 40 ≥ 0.000000000001 HT ≥ 0.000000000002 m 41 ≥ 0.0000000000005 HT ≥ 0.000000000001 m 42 ≥ 0.0000000000002 HT ≥ 0.0000000000005 m 43 ≥ 0.0000000000001 HT ≥ 0.0000000000002 m 44 ≥ 0.00000000000005 HT ≥ 0.0000000000001 m 45 ≥ 0.00000000000002 HT ≥ 0.00000000000005 m 46 ≥ 0.00000000000001 HT ≥ 0.00000000000002 m 47 ≥ 0.000000000000005 HT ≥ 0.00000000000001 m 48 ≥ 0.000000000000002 HT ≥ 0.000000000000005 m 49 ≥ 0.000000000000001 HT ≥ 0.000000000000002 m 50 ≥ 0.0000000000000005 HT ≥ 0.000000000000001 m 51 ≥ 0.0000000000000002 HT ≥ 0.0000000000000005 m 52 ≥ 0.0000000000000001 HT ≥ 0.0000000000000002 m 53 ≥ 0.00000000000000005 HT ≥ 0.0000000000000001 m 54 ≥ 0.00000000000000002 HT ≥ 0.00000000000000005 m 55 ≥ 0.00000000000000001 HT ≥ 0.00000000000000002 m 56 $\geq 0.000000000000000005$ HT ≥ 0.00000000000000001 m 57 $\geq 0.000000000000000002$ HT $\geq 0.000000000000000005$ m 58 $\geq 0.000000000000000001$ HT $\geq 0.000000000000000002$ m 59 $\geq 0.0000000000000000005$ HT $\geq 0.000000000000000001$ m 60 $\geq 0.0000000000000000002$ HT $\geq 0.0000000000000000005$ m 61 $\geq 0.0000000000000000001$ HT $\geq 0.0000000000000000002$ m 62 $\geq 0.00000000000000000005$ HT $\geq 0.0000000000000000001$ m 63 $\geq 0.00000000000000000002$ HT $\geq 0.00000000000000000005$ m 64 $\geq 0.00000000000000000001$ HT $\geq 0.00000000000000000002$ m 65 $\geq 0.000000000000000000005$ HT $\geq 0.00000000000000000001$ m 66 $\geq 0.000000000000000000002$ HT $\geq 0.000000000000000000005$ m 67 $\geq 0.000000000000000000001$ HT $\geq 0.000000000000000000002$ m 68 $\geq 0.0000000000000000000005$ HT $\geq 0.000000000000000000001$ m 69 $\geq 0.0000000000000000000002$ HT $\geq 0.0000000000000000000005$ m 70 $\geq 0.0000000000000000000001$ HT $\geq 0.0000000000000000000002$ m 71 $\geq 0.00000000000000000000005$ HT $\geq 0.0000000000000000000001$ m 72 $\geq 0.00000000000000000000002$ HT $\geq 0.00000000000000000000005$ m 73 $\geq 0.00000000000000000000001$ HT $\geq 0.00000000000000000000002$ m 74 $\geq 0.000000000000000000000005$ HT $\geq 0.00000000000000000000001$ m 75 $\geq 0.000000000000000000000002$ HT $\geq 0.000000000000000000000005$ m 76 $\geq 0.000000000000000000000001$ HT $\geq 0.000000000000000000000002$ m 77 $\geq 0.0000000000000000000000005$ HT $\geq 0.000000000000000000000001$ m 78 $\geq 0.0000000000000000000000002$ HT $\geq 0.0000000000000000000000005$ m 79 $\geq 0.0000000000000000000000001$ HT $\geq 0.0000000000000000000000002$ m 80 $\geq 0.00000000000000000000000005$ HT ≥ 0.0

STAND COMPOSITION:

2

SIZE CLASS ANALYSIS:				
	A	<10	10-24	> 50
STANDING SNAGS:	N	<10	10-24	> 50
DEADFALL / LOGS:	N	<10	10-24	> 50

ABUNDANCE CODES: N = NONE R = RARE Q = OCCASIONAL A = ABUNDANT

COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SCHEME 1 ANALYSIS:

SOIL AVALANCHE					
TEXTURE:	CL			g = 99	g = 99
MOISTURE:	50			2.00	(cm)
HOMOGENEOUS / VARIABLE				75	(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASSIFICATION:		ELC CODE
COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Dry Redcedar Conifers Thicket type	THCM1-1
INCLUSION		
COMPLEX		

Notes:



0.3 km

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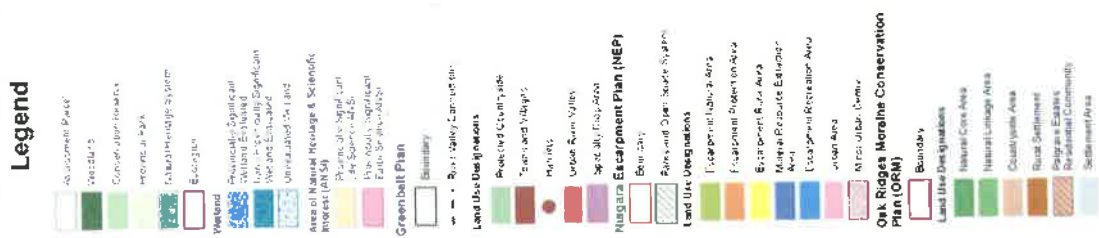
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Projection: Web Mercator



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Survey.
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ELC

SOILS ONTARIO

SITE: 1000115-1 NAP 493

POLYGON: 9

DATE: June 16

SURVEYOR(S): RMC DLC

PIA		Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1										
2										
3										
4										
5										

SOIL		1	2	3	4	5
TEXTURE x HORIZON						
Nearby grassy / hummocky						

A	TEXTURE					
	COURSE FRAGMENTS					
B	TEXTURE					
	COURSE FRAGMENTS					
C	TEXTURE					
	COURSE FRAGMENTS					
	EFFECTIVE TEXTURE					
	SURFACE STONINESS					
	SURFACE ROCKINESS					
	DEPTH TO / OF					

	MOTTLES					
	GLEYS					
	BEDROCK					
	WATER TABLE					
	CARBONATES					
	DEPTH OF ORGANICS					
	PORE SIZE DISC #1					
	PORE SIZE DISC #2					
	MOISTURE REGIME					

	SOIL SURVEY MAP					
	LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:

POLYGON:

DATE:

SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL	SPECIES CODE	LAYER				COL
	1	2	3	4			1	2	3	4	
Eleocharis comp				R							
Red Clover				O							
White Clover				O							
Antennaria				O							
Grass				O							
Hardy Weeds				O							
Tall Buttercup				O							
Cat's Foot				O							
Vitis				R							
Rocky Area				O							
Red Elm				R							
Pinella				O							
Red Elm				O							
Vaccinium				O							
Vaccinium				O							
Rubus sp.				O							
Juniperus				R							
Grasses (grazed)				D							
Red Elm				D							
Juniperus				O							

Additional Properties

Notes:
Euler map notes



0.7 km

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Projection: Web Mercator

Projection: Web Mercator



Legend

- [illegible]

Oak Ridge Moraine Conservation Plan (ORM)

NAP492_North

Notes:
Enter map notes



0.2 km

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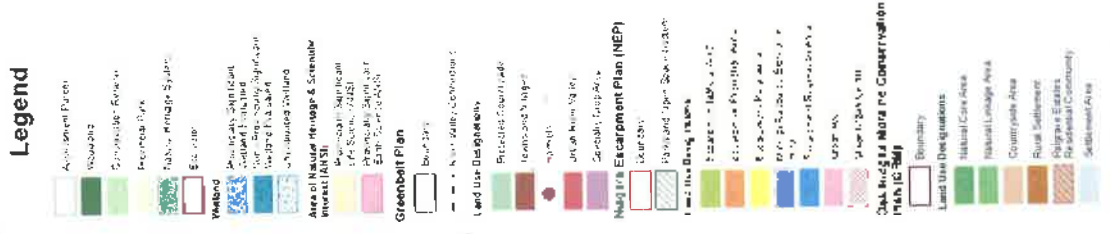
Legend

- [illegible]



Make-a-Map: Natural Heritage Areas

Notes:
Enter map notes

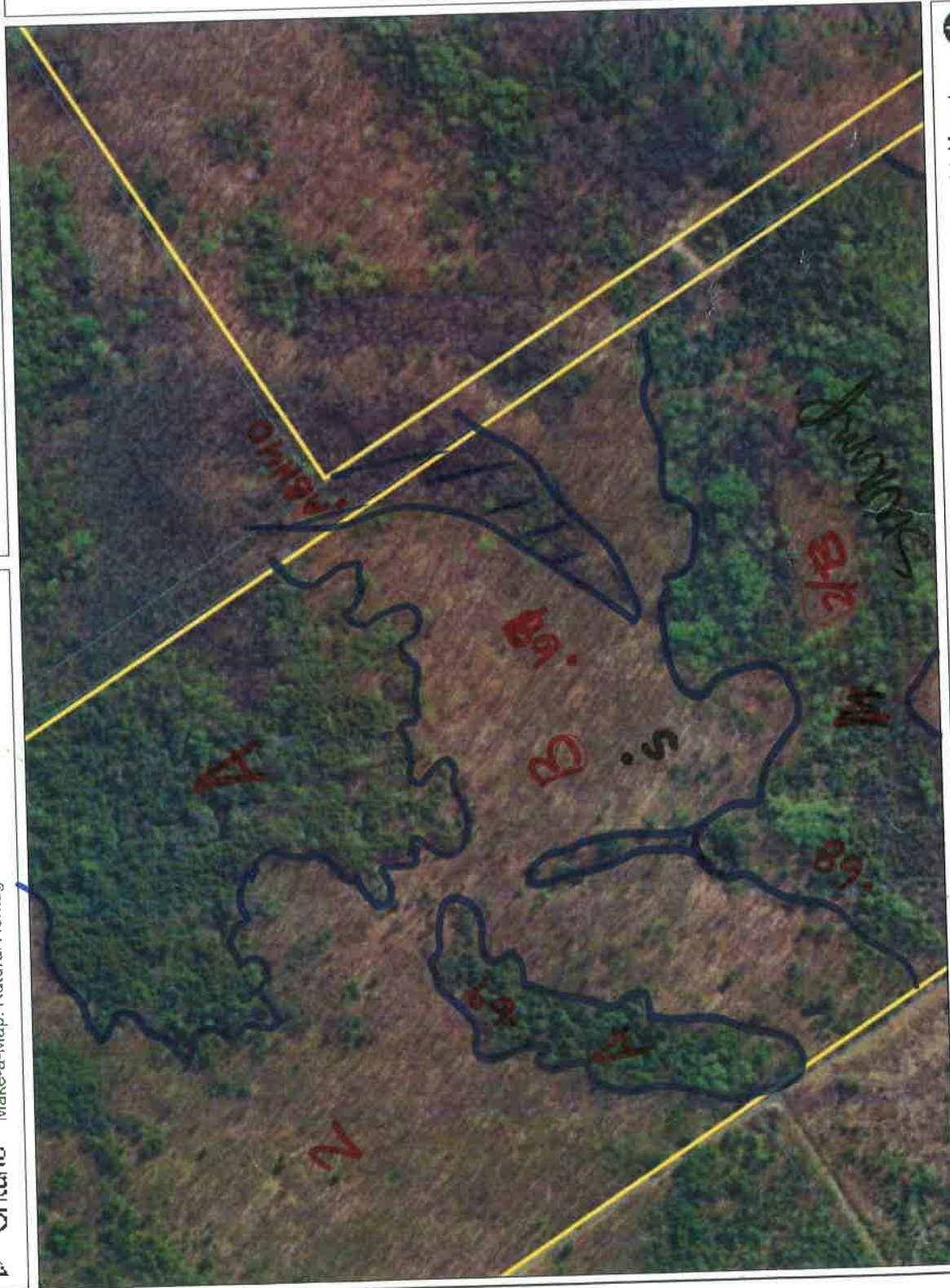


Satisfaction Level	Proportion
Very satisfied	~0.25
Satisfied	~0.15
Not satisfied	~0.10
Very dissatisfied	~0.05

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0.2 km

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600.0000: Barbara - for Ontario: 2015

Projection: Web Mercator

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Legend

- [illegible]

Niagara Facsimile Plan (NEP)

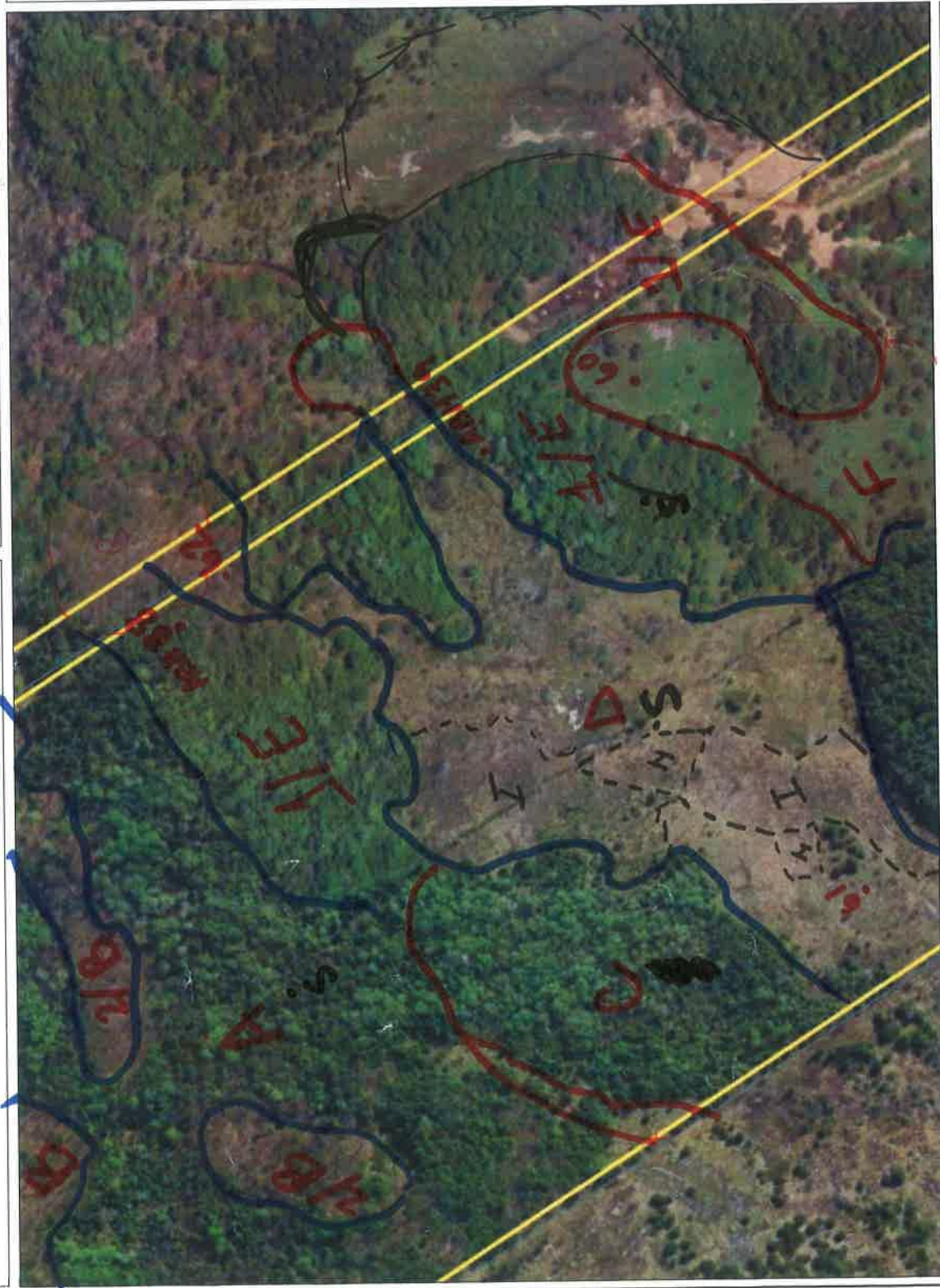
Only Birds: Marine Conservation

- Plan (FORM)



NAP492 middle1

Notes:
Enter map notes



0.2 km

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Survey.
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Legend

- [illegible]



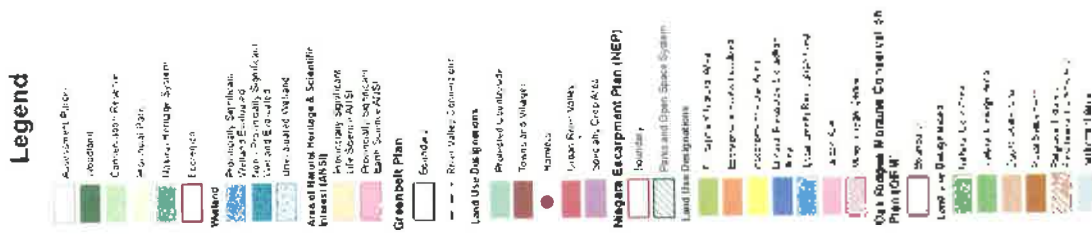
Projection: Web Mercator

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ELC	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):
STAND	
CHARACTERISTICS	

TREE TALLY BY SPECIES:

[illegible]

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC COMMUNITY CLASSIFICATION	SITE:	POLYGON:	
	DATE:		TIME:
	SURVEYOR(S):	start	finish
	UTM2:	UTM1:	

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<u>G TERRESTRIAL</u>	G ORGANIC	G LACUSTRINE	<u>G NATURAL</u>	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	<u>G PARENT MIN.</u>	G TERRACE		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G VALLEY SLOPE		G GRAMINOID	G STREAM
	G BASINIC BEDRK.	G TABLELAND		G FORB	G MARSH
	G BASIC BEDRK.	G ROLL UPLAND		G LICHEN	G SWAMP
	G CARB. BEDRK.	G CLIFF		G BRYOPHYTE	G PEN
		G TALUS	<u>COVER</u>	G DECIDUOUS	G BARN
<u>SITE</u>		G CRENICE / CAVE		G MIXED	G MEADOW
G OPEN WATER		G ALLUVIAL	G OPEN		G PRairie
G SHALLOW WATER		G ROCKLAND	G SHRUB		G THicket
G SUCCESSIONAL DEP.		G BEACH / BAR			G SAVANNAH
<u>G BEDROCK</u>		G SAND DUNE	G TREED		G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

STAND DESCRIPTION:				SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)	
LAYER	HT	CVR			
1	CANOPY	2	<i>R. pedunculata</i>	>	<i>A. sticky</i>
2	SUB-CANOPY	3	<i>R. pedunculata</i>	>	<i>A. sticky</i>
3	UNDERSTOREY	4	<i>R. pedunculata</i>	>	<i>A. sticky</i>
4	GRD. LAYER	5	<i>R. pedunculata</i>	>	<i>A. sticky</i>

HT CODES: 1 = >25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-10 m 5 = 0.5-1 m 6 = 0.2-1 m 7 = HT < 0.2 m

STAND COMPOSITION:

STAND COMPOSITION:										BA:	
CVR CODES											
N = NONE R = RARE Q = OCCASIONAL A = ABUNDANT											
COMM.	AGE	PIONEER	YOUNG	MID-AGE	MATURE	OLD	GROWTH				
SIZE CLASS ANALYSIS:											
			< 10	10 - 24	25 - 50	> 50					
STANDING SNAGS:											
			< 10	10 - 24	25 - 50	> 50					
DEADFALL / LOGS:											
			< 10	10 - 24	25 - 50	> 50					

SOIL ANALYSIS:

SOIL ANALYSIS:		
TEXTURE:	DEPTH TO MOTTLES / GLEY	g =
MOISTURE:	DEPTH OF ORGANICS:	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASSIFICATION:		ELC CODE
COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Redcedars Above Woodland	RBTA-7
INCLUSION		
COMPLEX		

Notes:



0 0.2 km

Projection: Web Mercator



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Legend

- Aqueous parcel
- Wetland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecotone
- Wetland
- Potentially Significant Wetland
- Non-Potentially Significant Wetland
- Unregulated Wetland
- Areas of Natural Heritage & Scientific Interest (ASNI)
- Potentially Significant ASNI
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PIN450660076 - NAP011_2

Notes:
Enter map notes



0.2 km

Projection: Web Mercator



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Ministry of Natural Resources and Forestry
Make-a-Map: Natural Heritage Areas
R501

PIN450660079 - NAP012

Notes:
Enter map notes



0.3 km

Projection: Web Mercator

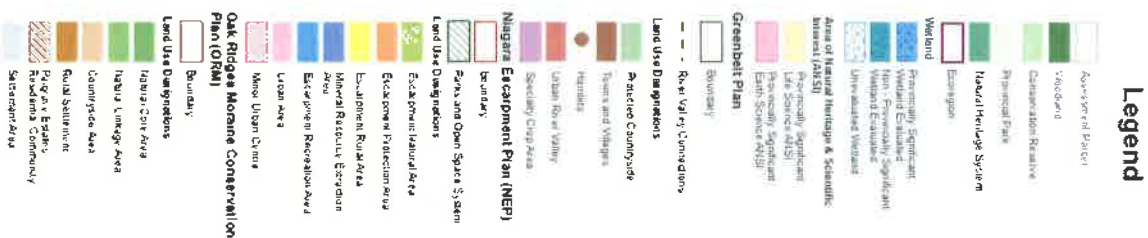


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Ministry of Natural Resources and Forestry

Make-a-Map: Natural Heritage Areas

NAP013 - north2

Notes:
Enter map notes



0.2 km

Projection: Web Mercator



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Legend

- [illegible]



ELC		SITE: NAP 13	
POLYGON: KBDH-4		DATE: OCT 04 2016	
SLOPE: N 65° E		UTM	
SURVEYOR(S): NG, JHA, RS			

P/A	Pr	C	Position	Aspect	%	Type	Class	Z	EXISTING	NORTHING
1										
2										
3										
4										
5										

TEXTURE x HORIZON	1	2	3	4	5
SOIL	1	2	3	4	5
TEXTURE	2cm				
TEXTURE	8cm				

A	TEXTURE	St. H. loam
B	COURSE FRAGMENTS	25%
C	TEXTURE	
	COURSE FRAGMENTS	
	TEXTURE	
	COURSE FRAGMENTS	
	EFFECTIVE TEXTURE	
	SURFACE STONINESS	2
	SURFACE ROCKINESS	2
	DEPTH TO / OF	

MOTTLES	999
GLEYS	999
GEOROCK	8cm
WATER TABLE	999
CARBONATES	8cm
DEPTH OF ORGANICS	2
PORE SIZE DISC #1	2
PORE SIZE DISC #2	
MOISTURE REGIME	Dry B
SOIL SURVEY MAP	
LEGEND CLASS	

ELC		SITE: NAP 13	
POLYGON: KBDH-4		DATE: OCT 04 2016	
SLOPE: N 65° E		UTM	
SURVEYOR(S): NG, JHA, RS			

SPECIES CODE	1	2	3	4	COL.
1					
2					
3					
4					
5					

TEXTURE x HORIZON	1	2	3	4	5
SOIL	1	2	3	4	5
TEXTURE	2cm				
TEXTURE	8cm				

A	TEXTURE	St. H. loam
B	COURSE FRAGMENTS	25%
C	TEXTURE	
	COURSE FRAGMENTS	
	TEXTURE	
	COURSE FRAGMENTS	
	EFFECTIVE TEXTURE	
	SURFACE STONINESS	2
	SURFACE ROCKINESS	2
	DEPTH TO / OF	

MOTTLES	999
GLEYS	999
GEOROCK	8cm
WATER TABLE	999
CARBONATES	8cm
DEPTH OF ORGANICS	2
PORE SIZE DISC #1	2
PORE SIZE DISC #2	
MOISTURE REGIME	Dry B
SOIL SURVEY MAP	
LEGEND CLASS	

ELC
SITE: Loyalist NAPP 11
POLYGON: Tebub River
DATE: June 14
SURVEYOR(S): RMC NLC

PIA	Dr	Position	Aspect	%	Type	Chm	Z	EASTING	NORTHING
1	A	20	6	1	S	1	97	0343785	4414447
2	A	20	6	1	S	1			
3									
4									
5									

SOIL	1	2	3	4	5
TEXTURE: horizon	A	A			

A	TEXTURE	loamy sand	loamy sand		
COURSE FRAGMENTS	no	no			
B	TEXTURE				
COURSE FRAGMENTS					
C	TEXTURE				
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	1.5	1.5			
SURFACE STONEINESS	0	0			
SURFACE ROCKINESS	0	0			

DEPTH TO / OF	MOTTLES	9.9	9.9		
GLEY	9.9	9.9			
BEDROCK	6	6			
WATER TABLE	9.9	9.9			
CARBONATES	6	6			
DEPTH OF ORGANICS	1.5	1.5			
PORE SIZE DISC #1	2	2			
PORE SIZE DISC #2					
MOISTURE REGIME	Dry 0	0			
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
SITE: Loyalist NAPP 11
POLYGON: Tebub River
DATE: June 14
SURVEYOR(S): RMC NLC

PIA	Dr	Position	Aspect	%	Type	Chm	Z	EASTING	NORTHING
1	A	20	6	1	S	1	97	0343785	4414447
2	A	20	6	1	S	1			
3									
4									
5									

SOIL	1	2	3	4	5
TEXTURE: horizon	A	A			

A	TEXTURE	loamy sand	loamy sand		
COURSE FRAGMENTS	no	no			
B	TEXTURE				
COURSE FRAGMENTS					
C	TEXTURE				
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	1.5	1.5			
SURFACE STONEINESS	0	0			
SURFACE ROCKINESS	0	0			

DEPTH TO / OF	MOTTLES	9.9	9.9		
GLEY	9.9	9.9			
BEDROCK	6	6			
WATER TABLE	9.9	9.9			
CARBONATES	6	6			
DEPTH OF ORGANICS	1.5	1.5			
PORE SIZE DISC #1	2	2			
PORE SIZE DISC #2					
MOISTURE REGIME	Dry 0	0			
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYORS:

ABUNDANCE CODES: R = RARE Q = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL
	1	2	3	4	
Rare			A		
Dominant			Q		

SPECIES CODE	LAYER				COL
	1	2	3	4	
Philoponina				Q	
Larva philoponina				Q	

[illegible][illegible]

ELC
PLANT
SPECIES
LIST
SITE:
POLYGON:
DATE:
SURVEYORS:

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL.
	1	2	3	4	
10-500 km				A	
Water 50-60				O	

SPECIES CODE	LAYER				COL.
	1	2	3	4	
10-500 km				A	
Water 50-60				O	

[illegible]

ELC
SITE: Levitt DATE: NAP 11/2/13 POLYGON: 1
SURVEYOR(S): RME DC TIME: start
CLASSIFICATION: July fresh

POLYGON DESCRIPTION
SYSTEM SUBSTRATE TOPOGRAPHIC FEATURE HISTORY PLANT FORM COMMUNITY
G TERRESTRIAL G ORGANIC G LAKESTRINE G NATURAL G PLANKTON G LAKE
G WETLAND G MINERAL SOIL G RIVERINE G CULTURAL G SUBMERGED G POND
G AQUATIC G PARENT MIN. G TERRACE G ELEVATED G RIVER
G ACIDIC BEDROCK G VALLEY SLOPE G FORE G STREAM
G BASIC BEDROCK G TABLELAND G LICHEN G SWAMP G MARSH
G OPEN WATER G CLIFF G BRYOPHYTES G BOG G FEN
G SHALLOW WATER G CREVICE / CAVE G OPEN G MEADOW G THICKET
G SURFICIAL DEPOSIT G ROCKLAND G SHRUB G SAVANNAH G WOODLAND
G BEDROCK G BLUFF G TREED G PLANTATION

STAND DESCRIPTION: SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)
LAYER HT CVR (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY
2 SUB-CANOPY
3 UNDERSTOREY
4 GRID LAYER
HT CODES: 1 = >25 m 2 = 10-24 m 3 = 2-4 m 4 = 1-2 m 5 = 0.5-1 m 6 = 0.2-0.4 m 7 = 0.1-0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 40% 4 = CVR > 40%
STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS:
STANDING SNAGS: < 10 10-24 25-50 > 50
DEADFALL / LOGS: < 10 10-24 25-50 > 50
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT
COMM. AGE: PIONEER YOUNG MID-AGE IMMATURE OLD GROWTH

SOIL ANALYSIS:
TEXTURE: DEPTH TO MOTILES / GLEY g = G=
MOISTURE: DEPTH OF ORGANICS: (cm)
HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)
COMMUNITY CLASSIFICATION: ELC CODE
COMMUNITY CLASS:
COMMUNITY SERIES:
ECOSITE:
VEGETATION TYPE: open pasture cultural pasture CHERRY
INCLUSION
COMPLEX

Notes:

Cultural meadows, grazed, with backthorn, Elm, Ash hedgerows between
And field is (in 2014) appears early succession after the field was converted from meadow

ELC
SITE: POLYGON: DATE: SURVEYOR(S):

STAND CHARACTERISTICS

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC		SITE: 10/1/14	MAP 10/2/15
POLYGON: 10			
DATE: 10/1/14			
SURVEYOR(S): RMC D.C.			

P/A	PP	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1									107 059 2889	491 4210
2										
3										
4										
5										

SOIL	1	2	3	4	5
TEXTURE x MOISTURE					
	<div style="border: 1px solid black; padding: 5px;"> 2. <u>clay/mass</u> <u>parent</u> </div>				

A	TEXTURE	
	COURSE FRAGMENTS	
B	TEXTURE	
	COURSE FRAGMENTS	
C	TEXTURE	
	COURSE FRAGMENTS	
	EFFECTIVE TEXTURE	
	SURFACE STRENGTH	
	SURFACE ROCKINESS	
	DEPTH TO / OF	

	MOISTURE	
	BLEY	
	BEDROCK	
	WATER TABLE	
	CARBONATES	
	DEPTH OF ORGANICS	
	PORE SIZE D10 #1	
	PORE SIZE D60 #2	
	MOISTURE RESERVE	

SOIL SURVEY MAP	
LEGEND CLASS	

ELC		SITE: 10/1/14
PLANT SPECIES LIST		POLYGON: 10
DATE: 10/1/14		
SURVEYOR(S): RMC D.C.		

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
 ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL.	SPECIES CODE	LAYER				COL.
	1	2	3	4			1	2	3	4	
White clover											
Red clover											
Timothy grass											
Oxeye daisy											
Tall buttercup											
Witch hazel											
Goat's beard											
Asclepias sp.											
As. Hyacinth sp.											
As. sp.											
Solidago (10/1)											
Dark red											
Rebber											
Green ash											
Oxeye daisy											
Aster sp.											
Shrub sp.											
Yucca sp.											
Potentilla											
Antennaria sp.											
Trichostema											
Blueberry											
Yucca sp.											
Penstemon											
Blackberry											
Erigeron											
Veronica											
Galium											
Stellaria											
Erigeron											

SPECIES CODE	LAYER				COL.	SPECIES CODE	LAYER				COL.
	1	2	3	4			1	2	3	4	
White clover											
Red clover											
Timothy grass											
Oxeye daisy											
Tall buttercup											
Witch hazel											
Goat's beard											
Asclepias sp.											
As. Hyacinth sp.											
As. sp.											
Solidago (10/1)											
Dark red											
Rebber											
Green ash											
Oxeye daisy											
Aster sp.											
Shrub sp.											
Yucca sp.											
Potentilla											
Antennaria sp.											
Trichostema											
Blueberry											
Yucca sp.											
Penstemon											
Blackberry											
Erigeron											
Veronica											
Galium											
Stellaria											
Erigeron											



Ministry of Natural Resources and Forestry
Make-a-Map: Natural Heritage Areas

PIN450660071 - NAP021

Notes:
Enter map notes



0.3 km

Projection: Web Mercator

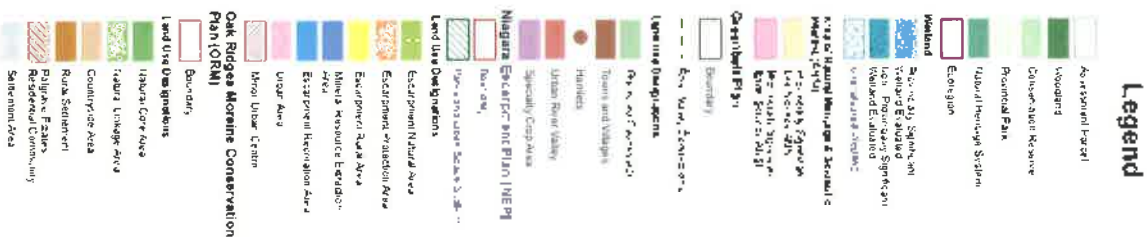


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ELC PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

ABUNDANCE CODES: F = RARE; O = OCCASIONAL; A = ABUNDANT; D = DOMINANT					
SPECIES CODE	LAYER				COL.
	1	2	3	4	
<i>Viburnum A</i>			O		
<i>Quercus D.O.</i>			O		

[illegible][illegible][illegible]

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE:	LEVEL 1	POLYGON:	3
	SURVEYOR(S):	RNB	DATE:	June 17 2017
	UTM2:	UTME:	UTM1:	

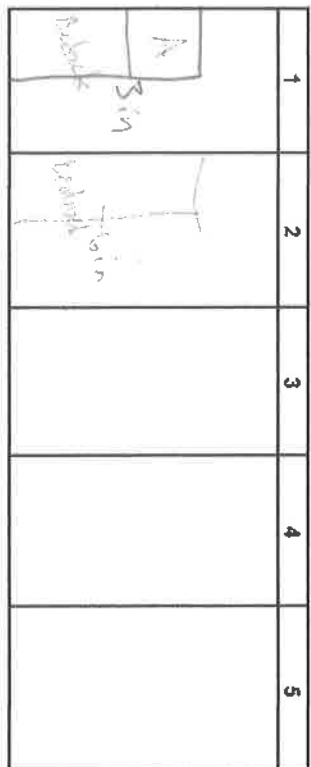
POLYGON DESCRIPTION					
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDROCK G BASIC BEDROCK G CASB. BEDROCK	G LUNGE G RIVER G BUTTRESS G TERRACE G VALLEY SLOPE G TABLELAND G ROLL UPLAND G TALLS G GRASS / CANE G ALVARO G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLYMOUTH G SUBMERGED G BOUNTY-LIVE G GRASSY G FOREST G LUSH G BRANCHY G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G STREAM G MARSH G SWAMP G BCG G BROWN G MUDGY G THICK G SAVANNAH G WOODLAND G WET G PLANTATION
SITE		COVER			
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP G BEDROCK					

STAND DESCRIPTION:			
LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) D = MUCH GREATER THAN; > GREATER THAN; * ABOUT EQUAL TO
1 CANOPY	3	3	Red cedar > Live oak
2 SUB-CANOPY	2	1	Red cedar > Live oak
3 UNDERSTORY	5	1	Red cedar > Live oak
4 GRD. LAYER	3	4	Red cedar > Live oak

HT CODES: 1 = 25m 2 = 10-25m 3 = 25-40m 4 = 41-60m 5 = 61-80m 6 = 81-100m 7 = 101-120m 8 = 121-140m 9 = 141-160m 10 = 161-180m 11 = 181-200m 12 = 201-220m 13 = 221-240m 14 = 241-260m 15 = 261-280m 16 = 281-300m 17 = 301-320m 18 = 321-340m 19 = 341-360m 20 = 361-380m 21 = 381-400m 22 = 401-420m 23 = 421-440m 24 = 441-460m 25 = 461-480m 26 = 481-500m 27 = 501-520m 28 = 521-540m 29 = 541-560m 30 = 561-580m 31 = 581-600m 32 = 601-620m 33 = 621-640m 34 = 641-660m 35 = 661-680m 36 = 681-700m 37 = 701-720m 38 = 721-740m 39 = 741-760m 40 = 761-780m 41 = 781-800m 42 = 801-820m 43 = 821-840m 44 = 841-860m 45 = 861-880m 46 = 881-900m 47 = 901-920m 48 = 921-940m 49 = 941-960m 50 = 961-980m 51 = 981-1000m 52 = 1001-1020m 53 = 1021-1040m 54 = 1041-1060m 55 = 1061-1080m 56 = 1081-1100m 57 = 1101-1120m 58 = 1121-1140m 59 = 1141-1160m 60 = 1161-1180m 61 = 1181-1200m 62 = 1201-1220m 63 = 1221-1240m 64 = 1241-1260m 65 = 1261-1280m 66 = 1281-1300m 67 = 1301-1320m 68 = 1321-1340m 69 = 1341-1360m 70 = 1361-1380m 71 = 1381-1400m 72 = 1401-1420m 73 = 1421-1440m 74 = 1441-1460m 75 = 1461-1480m 76 = 1481-1500m 77 = 1501-1520m 78 = 1521-1540m 79 = 1541-1560m 80 = 1561-1580m 81 = 1581-1600m 82 = 1601-1620m 83 = 1621-1640m 84 = 1641-1660m 85 = 1661-1680m 86 = 1681-1700m 87 = 1701-1720m 88 = 1721-1740m 89 = 1741-1760m 90 = 1761-1780m 91 = 1781-1800m 92 = 1801-1820m 93 = 1821-1840m 94 = 1841-1860m 95 = 1861-1880m 96 = 1881-1900m 97 = 1901-1920m 98 = 1921-1940m 99 = 1941-1960m 100 = 1961-1980m 101 = 1981-2000m 102 = 2001-2020m 103 = 2021-2040m 104 = 2041-2060m 105 = 2061-2080m 106 = 2081-2100m 107 = 2101-2120m 108 = 2121-2140m 109 = 2141-2160m 110 = 2161-2180m 111 = 2181-2200m 112 = 2201-2220m 113 = 2221-2240m 114 = 2241-2260m 115 = 2261-2280m 116 = 2281-2300m 117 = 2301-2320m 118 = 2321-2340m 119 = 2341-2360m 120 = 2361-2380m 121 = 2381-2400m 122 = 2401-2420m 123 = 2421-2440m 124 = 2441-2460m 125 = 2461-2480m 126 = 2481-2500m 127 = 2501-2520m 128 = 2521-2540m 129 = 2541-2560m 130 = 2561-2580m 131 = 2581-2600m 132 = 2601-2620m 133 = 2621-2640m 134 = 2641-2660m 135 = 2661-2680m 136 = 2681-2700m 137 = 2701-2720m 138 = 2721-2740m 139 = 2741-2760m 140 = 2761-2780m 141 = 2781-2800m 142 = 2801-2820m 143 = 2821-2840m 144 = 2841-2860m 145 = 2861-2880m 146 = 2881-2900m 147 = 2901-2920m 148 = 2921-2940m 149 = 2941-2960m 150 = 2961-2980m 151 = 2981-3000m 152 = 3001-3020m 153 = 3021-3040m 154 = 3041-3060m 155 = 3061-3080m 156 = 3081-3100m 157 = 3101-3120m 158 = 3121-3140m 159 = 3141-3160m 160 = 3161-3180m 161 = 3181-3200m 162 = 3201-3220m 163 = 3221-3240m 164 = 3241-3260m 165 = 3261-3280m 166 = 3281-3300m 167 = 3301-3320m 168 = 3321-3340m 169 = 3341-3360m 170 = 3361-3380m 171 = 3381-3400m 172 = 3401-3420m 173 = 3421-3440m 174 = 3441-3460m 175 = 3461-3480m 176 = 3481-3500m 177 = 3501-3520m 178 = 3521-3540m 179 = 3541-3560m 180 = 3561-3580m 181 = 3581-3600m 182 = 3601-3620m 183 = 3621-3640m 184 = 3641-3660m 185 = 3661-3680m 186 = 3681-3700m 187 = 3701-3720m 188 = 3721-3740m 189 = 3741-3760m 190 = 3761-3780m 191 = 3781-3800m 192 = 3801-3820m 193 = 3821-3840m 194 = 3841-3860m 195 = 3861-3880m 196 = 3881-3900m 197 = 3901-3920m 198 = 3921-3940m 199 = 3941-3960m 200 = 3961-3980m 201 = 3981-4000m 202 = 4001-4020m 203 = 4021-4040m 204 = 4041-4060m 205 = 4061-4080m 206 = 4081-4100m 207 = 4101-4120m 208 = 4121-4140m 209 = 4141-4160m 210 = 4161-4180m 211 = 4181-4200m 212 = 4201-4220m 213 = 4221-4240m 214 = 4241-4260m 215 = 4261-4280m 216 = 4281-4300m 217 = 4301-4320m 218 = 4321-4340m 219 = 4341-4360m 220 = 4361-4380m 221 = 4381-4400m 222 = 4401-4420m 223 = 4421-4440m 224 = 4441-4460m 225 = 4461-4480m 226 = 4481-4500m 227 = 4501-4520m 228 = 4521-4540m 229 = 4541-4560m 230 = 4561-4580m 231 = 4581-4600m 232 = 4601-4620m 233 = 4621-4640m 234 = 4641-4660m 235 = 4661-4680m 236 = 4681-4700m 237 = 4701-4720m 238 = 4721-4740m 239 = 4741-4760m 240 = 4761-4780m 241 = 4781-4800m 242 = 4801-4820m 243 = 4821-4840m 244 = 4841-4860m 245 = 4861-4880m 246 = 4881-4900m 247 = 4901-4920m 248 = 4921-4940m 249 = 4941-4960m 250 = 4961-4980m 251 = 4981-5000m 252 = 5001-5020m 253 = 5021-5040m 254 = 5041-5060m 255 = 5061-5080m 256 = 5081-5100m 257 = 5101-5120m 258 = 5121-5140m 259 = 5141-5160m 260 = 5161-5180m 261 = 5181-5200m 262 = 5201-5220m 263 = 5221-5240m 264 = 5241-5260m 265 = 5261-5280m 266 = 5281-5300m 267 = 5301-5320m 268 = 5321-5340m 269 = 5341-5360m 270 = 5361-5380m 271 = 5381-5400m 272 = 5401-5420m 273 = 5421-5440m 274 = 5441-5460m 275 = 5461-5480m 276 = 5481-5500m 277 = 5501-5520m 278 = 5521-5540m 279 = 5541-5560m 280 = 5561-5580m 281 = 5581-5600m 282 = 5601-5620m 283 = 5621-5640m 284 = 5641-5660m 285 = 5661-5680m 286 = 5681-5700m 287 = 5701-5720m 288 = 5721-5740m 289 = 5741-5760m 290 = 5761-5780m 291 = 5781-5800m 292 = 5801-5820m 293 = 5821-5840m 294 = 5841-5860m 295 = 5861-5880m 296 = 5881-5900m 297 = 5901-5920m 298 = 5921-5940m 299 = 5941-5960m 300 = 5961-5980m 301 = 5981-6000m 302 = 6001-6020m 303 = 6021-6040m 304 = 6041-6060m 305 = 6061-6080m 306 = 6081-6100m 307 = 6101-6120m 308 = 6121-6140m 309 = 6141-6160m 310 = 6161-6180m 311 = 6181-6200m 312 = 6201-6220m 313 = 6221-6240m 314 = 6241-6260m 315 = 6261-6280m 316 = 6281-6300m 317 = 6301-6320m 318 = 6321-6340m 319 = 6341-6360m 320 = 6361-6380m 321 = 6381-6400m 322 = 6401-6420m 323 = 6421-6440m 324 = 6441-6460m 325 = 6461-6480m 326 = 6481-6500m 327 = 6501-6520m 328 = 6521-6540m 329 = 6541-6560m 330 = 6561-6580m 331 = 6581-6600m 332 = 6601-6620m 333 = 6621-6640m 334 = 6641-6660m 335 = 6661-6680m 336 = 6681-6700m 337 = 6701-6720m 338 = 6721-6740m 339 = 6741-6760m 340 = 6761-6780m 341 = 6781-6800m 342 = 6801-6820m 343 = 6821-6840m 344 = 6841-6860m 345 = 6861-6880m 346 = 6881-6900m 347 = 6901-6920m 348 = 6921-6940m 349 = 6941-6960m 350 = 6961-6980m 351 = 6981-7000m 352 = 7001-7020m 353 = 7021-7040m 354 = 7041-7060m 355 = 7061-7080m 356 = 7081-7100m 357 = 7101-7120m 358 = 7121-7140m 359 = 7141-7160m 360 = 7161-7180m 361 = 7181-7200m 362 = 7201-7220m 363 = 7221-7240m 364 = 7241-7260m 365 = 7261-7280m 366 = 7281-7300m 367 = 7301-7320m 368 = 7321-7340m 369 = 7341-7360m 370 = 7361-7380m 371 = 7381-7400m 372 = 7401-7420m 373 = 7421-7440m 374 = 7441-7460m 375 = 7461-7480m 376 = 7481-7500m 377 = 7501-7520m 378 = 7521-7540m 379 = 7541-7560m 380 = 7561-7580m 381 = 7581-7600m 382 = 7601-7620m 383 = 7621-7640m 384 = 7641-7660m 385 = 7661-7680m 386 = 7681-7700m 387 = 7701-7720m 388 = 7721-7740m 389 = 7741-7760m 390 = 7761-7780m 391 = 7781-7800m 392 = 7801-7820m 393 = 7821-7840m 394 = 7841-7860m 395 = 7861-7880m 396 = 7881-7900m 397 = 7901-7920m 398 = 7921-7940m 399 = 7941-7960m 400 = 7961-7980m 401 = 7981-8000m 402 = 8001-8020m 403 = 8021-8040m 404 = 8041-8060m 405 = 8061-8080m 406 = 8081-8100m 407 = 8101-8120m 408 = 8121-8140m 409 = 8141-8160m 410 = 8161-8180m 411 = 8181-8200m 412 = 8201-8220m 413 = 8221-8240m 414 = 8241-8260m 415 = 8261-8280m 416 = 8281-8300m 417 = 8301-8320m 418 = 8321-8340m 419 = 8341-8360m 420 = 8361-8380m 421 = 8381-8400m 422 = 8401-8420m 423 = 8421-8440m 424 = 8441-8460m 425 = 8461-8480m 426 = 8481-8500m 427 = 8501-8520m 428 = 8521-8540m 429 = 8541-8560m 430 = 8561-8580m 431 = 8581-8600m 432 = 8601-8620m 433 = 8621-8640m 434 = 8641-8660m 435 = 8661-8680m 436 = 8681-8700m 437 = 8701-8720m 438 = 8721-8740m 439 = 8741-8760m 440 = 8761-8780m 441 = 8781-8800m 442 = 8801-8820m 443 = 8821-8840m 444 = 8841-8860m 445 = 8861-8880m 446 = 8881-8900m 447 = 8901-8920m 448 = 8921-8940m 449 = 8941-8960m 450 = 8961-8980m 451 = 8981-9000m 452 = 9001-9020m 453 = 9021-9040m 454 = 9041-9060m 455 = 9061-9080m 456 = 9081-9100m 457 = 9101-9120m 458 = 9121-9140m 459 = 9141-9160m 460 = 9161-9180m 461 = 9181-9200m 462 = 9201-9220m 463 = 9221-9240m 464 = 9241-9260m 465 = 9261-9280m 466 = 9281-9300m 467 = 9301-9320m 468 = 9321-9340m 469 = 9341-9360m 470 = 9361-9380m 471 = 9381-9400m 472 = 9401-9420m 473 = 9421-9440m 474 = 9441-9460m 475 = 9461-9480m 476 = 9481-9500m 477 = 9501-9520m 478 = 9521-9540m 479 = 9541-9560m 480 = 9561-9580m 481 = 9581-9600m 482 = 9601-9620m 483 = 9621-9640m 484 = 9641-9660m 485 = 9661-9680m 486 = 9681-9700m 487 = 9701-9720m 488 = 9721-9740m 489 = 9741-9760m 490 = 9761-9780m 491 = 9781-9800m 492 = 9801-9820m 493 = 9821-9840m 494 = 9841-9860m 495 = 9861-9880m 496 = 9881-9900m 497 = 9901-9920m 498 = 9921-9940m 499 = 9941-9960m 500 = 9961-9980m 501 = 9981-10000m 502 = 10001-10020m 503 = 10021-10040m 504 = 10041-10060m 505 = 10061-10080m 506 = 10081-10100m 507 = 10101-10120m 508 = 10121-10140m 509 = 10141-10160m 510 = 10161-10180m 511 = 10181-10200m 512 = 10201-10220m 513 = 10221-10240m 514 = 10241-10260m 515 = 10261-10280m 516 = 10281-10300m 517 = 10301-10320m 518 = 10321-10340m 519 = 10341-10360m 520 = 10361-10380m 521 = 10381-10400m 522 = 10401-10420m 523 = 10421-10440m 524 = 10441-10460m 525 = 10461-10480m 526 = 10481-10500m 527 = 10501-10520m 528 = 10521-10540m 529 = 10541-10560m 530 = 10561-10580m 531 = 10581-10600m 532 = 10601-10620m 533 = 10621-10640m 534 = 10641-10660m 535 = 10661-10680m 536 = 10681-10700m 537 = 10701-10720m 538 = 10721-10740m 539 = 10741-10760m 540 = 10761-10780m 541 = 10781-10800m 542 = 10801-10820m 543 = 10821-10840m 544 = 10841-10860m 545 = 10861-10880m 546 = 10881-10900m 547 = 10901-10920m 548 = 10921-10940m 549 = 10941-10960m 550 = 10961-10980m 551 = 10981-11000m 552 = 11001-11020m 553 = 11021-11040m 554 = 11041-11060m 555 = 11061-11080m 556 = 11081-11100m 557 = 11101-11120m 558 = 11121-11140m 559 = 11141-11160m 560 = 11161-11180m 561 = 11181-11200m 562 = 11201-11220m 563 = 11221-11240m 564 = 11241-11260m 565 = 11261-11280m 566 = 11281-11300m 567 = 11301-11320m 568 = 11321-11340m 569 = 11341-11360m 570 = 11361-11380m 571 = 11381-11400m 572 = 11401-11420m 573 = 11421-11440m 574 = 11441-11460m 575 = 11461-11480m 576 = 11481-11500m 577 = 11501-11520m 578 = 11521-11540m 579 = 11541-11560m 580 = 11561-11580m 581 = 11581-11600m 582 = 11601-11620m 583 = 11621-11640m 584 = 11641-11660m 585 = 11661-11680m 586 = 11681-11700m 587 = 11701-11720m 588 = 11721-11740m 589 = 11741-11760m 590 = 11761-11780m 591 = 11781-11800m 592 = 11801-11820m 593 = 11821-11840m 594 = 11841-11860m 595 = 11861-11880m 596 = 11881-11900m 597 = 11901-11920m 598 = 11921-11940m 599 = 11941-11960m 600 = 11961-11980m 601 = 11981-12000m 602 = 12001-12020m 603 = 12021-12040m 604 = 12041-12060m 605 = 12061-12080m 606 = 12081-12100m 607 = 12101-12120m 608 = 12121-12140m 609 = 12141-12160m 610 = 12161-12180m 611 = 12181-12200m 612 = 12201-12220m 613 = 12221-12240m 614 = 12241-12260m 615 = 12261-12280m 616 = 12281-12300m 617 = 12301-12320m 618 = 12321-12340m 619 = 12341-12360m 620 = 12361-12380m 621 = 12381-12400m 622 = 12401-12420m 623 = 12421-12440m 624 = 12441-12460m 625 = 12461-12480m 626 = 12481-12500m 627 = 12501-12520m 628 = 12521-12540m 629 = 12541-12560m 630 = 12561-12580m 631 = 12581-12600m 632 = 12601-12620m 633 = 12621-12640m 634 = 12641-12660m 635 = 12661-12680m 636 = 12681-12700m 637 = 12701-12720m 638 = 12721-12740m 639 = 12741-12760m 640 = 12761-12780m 641 = 12781-12800m 642 = 12801-12820m 643 = 12821-12840m 644 = 12841-12860m 645 = 12861-12880m 646 = 12881-12900m 647 = 12901-12920m 648 = 12921-12940m 649 = 12941-12960m 650 = 12961-12980m 651 = 12981-13000m 652 = 13001-13020m 653 = 13021-13040m 654 = 13041-13060m 655 = 13061-13080m 656 = 13081-13100m 657 = 13101-13120m 658 = 13121-13140m 659 = 13141-13160m 660 = 13161-13180m 661 = 13181-13200m 662 = 13201-13220m 663 = 13221-13240m 664 = 13241-13260m 665 = 13261-13280m 666 = 13281-13300m 667 = 13301-13320m 668 = 13321-13340m 669 = 13341-13360m 670 = 13361-13380m 671 = 13381-13400m 672 = 13401-13420m 673 = 13421-13440m 674 = 13441-13460m 675 = 13461-13480m 676 = 13481-13500m 677 = 13501-13520m 678 = 13521-13540m 679 = 13541-13560m 680 = 13561-13580m 681 = 13581-13600m 682 = 13601-13620m 683 = 13621-13640m 684 = 13641-13660m 685 = 13661-13680m 686 = 13681-13700m 687 = 13701-13720m 688 = 13721-13740m 689 = 13741-13760m 690 = 13761-13780m 691 = 13781-13800m 692 = 13801-13820m 693 = 13821-13840m 694 = 13841-13860m 695 = 13861-13880m 696 = 13881-13900m 697 = 13901-13920m 698 = 13921

ELC		SITE:	
POLYGON:		DATE:	
SURVEYOR(S):		UTM	

PP	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1									
2									
3									
4									
5									



A	TEXTURE	SL	SL						
	COURSE FRAGMENTS	<5%	215%						
B	TEXTURE								
	COURSE FRAGMENTS								
C	TEXTURE								
	COURSE FRAGMENTS								
	EFFECTIVE TEXTURE	SL	SL						
	SURFACE STONINESS	<5%	5%						
	SURFACE ROCKINESS	<5%	5%						

DEPTH TO / OF									
MOTTLES									
GLAY									
BEDROCK									
WATER TABLE									
CARBONATES									
DEPTH OF ORGANOCS									
PORE SIZE DIB: #1									
PORE SIZE MSC #2									
MOISTURE REGIME									
SOIL SURVEY MAP									
LEGEND CLASS									

ELC		SITE:	
POLYGON:		DATE:	
SURVEYOR(S):		UTM	

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Dependent					
Leafy green					
Red clover					
Dandelion					
Erigeron					
Gold's body					
Yucca					
St. John's wort					
Asclepias					
Mosses					
1. daisy					
V. daisy					
V. daisy					
Phil. daisy					
Galax. pinnatifid					
Upward adder					
Prunella					

LAYERS:									
ABUNDANCE CODES: R = RARE 0 = OCCASIONAL A = ABUNDANT D = DOMINANT									
1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER									
SPECIES CODE									
LAYER									
COL.									
1 2 3 4									
North aster									
Leafy green									
Red clover									
Dandelion									
Erigeron									
Gold's body									
Yucca									
St. John's wort									
Asclepias									
Mosses									
1. daisy									
V. daisy									
V. daisy									
Phil. daisy									
Galax. pinnatifid									
Upward adder									
Prunella									
White cedar									
Juniper									
Bamboo									
Bamboo									
Black Ash									
Black Ash									
Apple									
Apple									
Red cedar									

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE:	POLYGON:
	SURVEYORS:	DATE:
UTMZ:	UTME:	UTMN:

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MTL <input type="checkbox"/> ACIDIC BEDROCK <input type="checkbox"/> BASIC BEDROCK <input type="checkbox"/> CARB. BEDROCK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> SCREE / CAVE <input type="checkbox"/> FLOODLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LV. <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> BOD <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> PLANTATION	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOD <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> PLANTATION
SITE			COVER		
<input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEB <input type="checkbox"/> BEDROCK			<input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREE		

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	2	Am Elm > Red cedar > Am Elm < Sugar Maple
2 SUB-CANOPY	3	3	Red cedar < White cedar > Black Alder
3 UNDERSTOREY	5	3	Temper > White cedar
4 GRD. LAYER	6	1	Am Elm > Sugar Maple > Black Alder = V. v. s. sp

HT CODES: 1 = > 25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-10 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = 0-0.2 m

CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = CVR > 50%

STAND COMPOSITION:

STAND COMPOSITION: T. Aspers Am Elm 3 K. Cedar 13 BA: 2

SIZE CLASS ANALYSIS:

SIZE CLASS	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	0	0	2	2
DEADFALL / LOGS:	0	0	2	2

ABUNDANCE CODES:

N = NONE R = RARE Q = OCCASIONAL A = ABUNDANT

COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH
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SOIL ANALYSIS:

TEXTURE: SL DEPTH TO MOTILES / GLEY g = 6 cm G = 941

MOISTURE: Fresh DEPTH OF ORGANICS: 2 cm (cm)

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: 99 (cm)

COMMUNITY CLASSIFICATION:

ELC CODE

COMMUNITY CLASS:

COMMUNITY SERIES:

ECOSITE:

VEGETATION TYPE: Dry - Fresh Poplar Mixed - Forest type FORMS-2

INCLUSION

COMPLEX

Notes:

ELC STAND CHARACTERISTICS	SITE:	POLYGON:
	DATE:	SURVEYORS:

TREE TALLY BY SPECIES:

PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Am Elm	11					2	63
Am Elm	11					10	60
Red cedar	11					2	13
White cedar	1					1	7
Black Alder	1					1	7
TOTAL	16					16	100
BASAL AREA (BA)	28					28	
DEAD	0						

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

SPECIES CODE	LAYER				COL	SPECIES CODE	LAYER				COL
	1	2	3	4			1	2	3	4	
HSX211				0							
VJ15 R.P				0							

[illegible][illegible][illegible]

ELC		SITE: <i>NAP21</i>	POLYGON: <i>ME6K1</i>
COMMUNITY DESCRIPTION & CLASSIFICATION		SURVEYOR(S): <i>Dec + Rg</i>	DATE: <i>Nov 17</i>
		UTM2: <i></i>	UTM3: <i></i>
		UTM4: <i></i>	UTM5: <i></i>
		TIME: <i>5:00</i>	start finish

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G BARREN-MIN G ACIDIC BEDRK G BASIC BEDRK G CANE BEDRK	G UPLAND G RIVERINE G RIVERINE G UPLAND G UPLAND G UPLAND G UPLAND	G NATURAL G CULTURAL	G PLANT G PLANT G PLANT G PLANT G PLANT G PLANT G PLANT	G UPLAND G RIVERINE G RIVERINE G UPLAND G UPLAND G UPLAND G UPLAND
SITE					
COVER					
G OPEN G OPEN G OPEN G OPEN G OPEN G OPEN G OPEN					

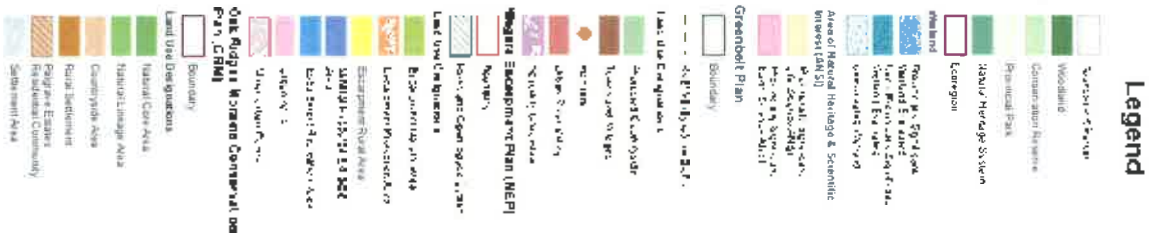
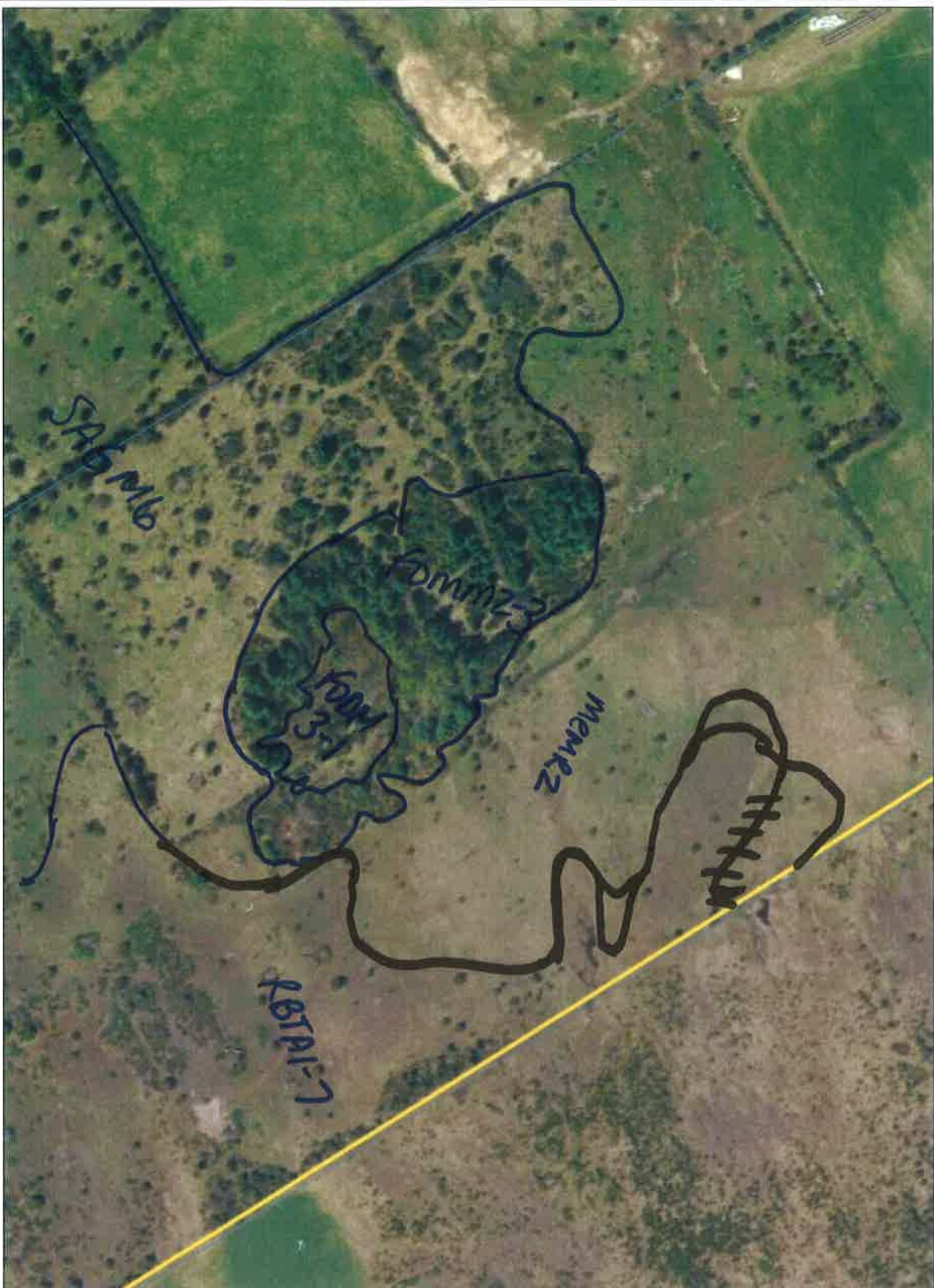
STAND DESCRIPTION			SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)		
LAYER	HT	CVR	(> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)		
1 CANOPY					
2 SUB-CANOPY	3	1	<i>Red cedar > Blackthorn > Apple</i>		
3 UNDERSTOREY	4/5	2	<i>Red cedar > ivy & holly & holly</i>		
4 GROUND LAYER	6-7	4	<i>quercus > Ranunculus</i>		
HT CODES: 1=20-25m 2=26-30m 3=31-35m 4=36-40m 5=41-45m 6=46-50m 7=51-55m 8=56-60m 9=61-65m 10=66-70m 11=71-75m 12=76-80m 13=81-85m 14=86-90m 15=91-95m 16=96-100m 17=101-105m 18=106-110m 19=111-115m 20=116-120m 21=121-125m 22=126-130m 23=131-135m 24=136-140m 25=141-145m 26=146-150m 27=151-155m 28=156-160m 29=161-165m 30=166-170m 31=171-175m 32=176-180m 33=181-185m 34=186-190m 35=191-195m 36=196-200m 37=201-205m 38=206-210m 39=211-215m 40=216-220m 41=221-225m 42=226-230m 43=231-235m 44=236-240m 45=241-245m 46=246-250m 47=251-255m 48=256-260m 49=261-265m 50=266-270m 51=271-275m 52=276-280m 53=281-285m 54=286-290m 55=291-295m 56=296-300m 57=301-305m 58=306-310m 59=311-315m 60=316-320m 61=321-325m 62=326-330m 63=331-335m 64=336-340m 65=341-345m 66=346-350m 67=351-355m 68=356-360m 69=361-365m 70=366-370m 71=371-375m 72=376-380m 73=381-385m 74=386-390m 75=391-395m 76=396-400m 77=401-405m 78=406-410m 79=411-415m 80=416-420m 81=421-425m 82=426-430m 83=431-435m 84=436-440m 85=441-445m 86=446-450m 87=451-455m 88=456-460m 89=461-465m 90=466-470m 91=471-475m 92=476-480m 93=481-485m 94=486-490m 95=491-495m 96=496-500m 97=501-505m 98=506-510m 99=511-515m 100=516-520m 101=521-525m 102=526-530m 103=531-535m 104=536-540m 105=541-545m 106=546-550m 107=551-555m 108=556-560m 109=561-565m 110=566-570m 111=571-575m 112=576-580m 113=581-585m 114=586-590m 115=591-595m 116=596-600m 117=601-605m 118=606-610m 119=611-615m 120=616-620m 121=621-625m 122=626-630m 123=631-635m 124=636-640m 125=641-645m 126=646-650m 127=651-655m 128=656-660m 129=661-665m 130=666-670m 131=671-675m 132=676-680m 133=681-685m 134=686-690m 135=691-695m 136=696-700m 137=701-705m 138=706-710m 139=711-715m 140=716-720m 141=721-725m 142=726-730m 143=731-735m 144=736-740m 145=741-745m 146=746-750m 147=751-755m 148=756-760m 149=761-765m 150=766-770m 151=771-775m 152=776-780m 153=781-785m 154=786-790m 155=791-795m 156=796-800m 157=801-805m 158=806-810m 159=811-815m 160=816-820m 161=821-825m 162=826-830m 163=831-835m 164=836-840m 165=841-845m 166=846-850m 167=851-855m 168=856-860m 169=861-865m 170=866-870m 171=871-875m 172=876-880m 173=881-885m 174=886-890m 175=891-895m 176=896-900m 177=901-905m 178=906-910m 179=911-915m 180=916-920m 181=921-925m 182=926-930m 183=931-935m 184=936-940m 185=941-945m 186=946-950m 187=951-955m 188=956-960m 189=961-965m 190=966-970m 191=971-975m 192=976-980m 193=981-985m 194=986-990m 195=991-995m 196=996-1000m 197=1001-1005m 198=1006-1010m 199=1011-1015m 200=1016-1020m 201=1021-1025m 202=1026-1030m 203=1031-1035m 204=1036-1040m 205=1041-1045m 206=1046-1050m 207=1051-1055m 208=1056-1060m 209=1061-1065m 210=1066-1070m 211=1071-1075m 212=1076-1080m 213=1081-1085m 214=1086-1090m 215=1091-1095m 216=1096-1100m 217=1101-1105m 218=1106-1110m 219=1111-1115m 220=1116-1120m 221=1121-1125m 222=1126-1130m 223=1131-1135m 224=1136-1140m 225=1141-1145m 226=1146-1150m 227=1151-1155m 228=1156-1160m 229=1161-1165m 230=1166-1170m 231=1171-1175m 232=1176-1180m 233=1181-1185m 234=1186-1190m 235=1191-1195m 236=1196-1200m 237=1201-1205m 238=1206-1210m 239=1211-1215m 240=1216-1220m 241=1221-1225m 242=1226-1230m 243=1231-1235m 244=1236-1240m 245=1241-1245m 246=1246-1250m 247=1251-1255m 248=1256-1260m 249=1261-1265m 250=1266-1270m 251=1271-1275m 252=1276-1280m 253=1281-1285m 254=1286-1290m 255=1291-1295m 256=1296-1300m 257=1301-1305m 258=1306-1310m 259=1311-1315m 260=1316-1320m 261=1321-1325m 262=1326-1330m 263=1331-1335m 264=1336-1340m 265=1341-1345m 266=1346-1350m 267=1351-1355m 268=1356-1360m 269=1361-1365m 270=1366-1370m 271=1371-1375m 272=1376-1380m 273=1381-1385m 274=1386-1390m 275=1391-1395m 276=1396-1400m 277=1401-1405m 278=1406-1410m 279=1411-1415m 280=1416-1420m 281=1421-1425m 282=1426-1430m 283=1431-1435m 284=1436-1440m 285=1441-1445m 286=1446-1450m 287=1451-1455m 288=1456-1460m 289=1461-1465m 290=1466-1470m 291=1471-1475m 292=1476-1480m 293=1481-1485m 294=1486-1490m 295=1491-1495m 296=1496-1500m 297=1501-1505m 298=1506-1510m 299=1511-1515m 300=1516-1520m 301=1521-1525m 302=1526-1530m 303=1531-1535m 304=1536-1540m 305=1541-1545m 306=1546-1550m 307=1551-1555m 308=1556-1560m 309=1561-1565m 310=1566-1570m 311=1571-1575m 312=1576-1580m 313=1581-1585m 314=1586-1590m 315=1591-1595m 316=1596-1600m 317=1601-1605m 318=1606-1610m 319=1611-1615m 320=1616-1620m 321=1621-1625m 322=1626-1630m 323=1631-1635m 324=1636-1640m 325=1641-1645m 326=1646-1650m 327=1651-1655m 328=1656-1660m 329=1661-1665m 330=1666-1670m 331=1671-1675m 332=1676-1680m 333=1681-1685m 334=1686-1690m 335=1691-1695m 336=1696-1700m 337=1701-1705m 338=1706-1710m 339=1711-1715m 340=1716-1720m 341=1721-1725m 342=1726-1730m 343=1731-1735m 344=1736-1740m 345=1741-1745m 346=1746-1750m 347=1751-1755m 348=1756-1760m 349=1761-1765m 350=1766-1770m 351=1771-1775m 352=1776-1780m 353=1781-1785m 354=1786-1790m 355=1791-1795m 356=1796-1800m 357=1801-1805m 358=1806-1810m 359=1811-1815m 360=1816-1820m 361=1821-1825m 362=1826-1830m 363=1831-1835m 364=1836-1840m 365=1841-1845m 366=1846-1850m 367=1851-1855m 368=1856-1860m 369=1861-1865m 370=1866-1870m 371=1871-1875m 372=1876-1880m 373=1881-1885m 374=1886-1890m 375=1891-1895m 376=1896-1900m 377=1901-1905m 378=1906-1910m 379=1911-1915m 380=1916-1920m 381=1921-1925m 382=1926-1930m 383=1931-1935m 384=1936-1940m 385=1941-1945m 386=1946-1950m 387=1951-1955m 388=1956-1960m 389=1961-1965m 390=1966-1970m 391=1971-1975m 392=1976-1980m 393=1981-1985m 394=1986-1990m 395=1991-1995m 396=1996-2000m 397=2001-2005m 398=2006-2010m 399=2011-2015m 400=2016-2020m 401=2021-2025m 402=2026-2030m 403=2031-2035m 404=2036-2040m 405=2041-2045m 406=2046-2050m 407=2051-2055m 408=2056-2060m 409=2061-2065m 410=2066-2070m 411=2071-2075m 412=2076-2080m 413=2081-2085m 414=2086-2090m 415=2091-2095m 416=2096-2100m 417=2101-2105m 418=2106-2110m 419=2111-2115m 420=2116-2120m 421=2121-2125m 422=2126-2130m 423=2131-2135m 424=2136-2140m 425=2141-2145m 426=2146-2150m 427=2151-2155m 428=2156-2160m 429=2161-2165m 430=2166-2170m 431=2171-2175m 432=2176-2180m 433=2181-2185m 434=2186-2190m 435=2191-2195m 436=2196-2200m 437=2201-2205m 438=2206-2210m 439=2211-2215m 440=2216-2220m 441=2221-2225m 442=2226-2230m 443=2231-2235m 444=2236-2240m 445=2241-2245m 446=2246-2250m 447=2251-2255m 448=2256-2260m 449=2261-2265m 450=2266-2270m 451=2271-2275m 452=2276-2280m 453=2281-2285m 454=2286-2290m 455=2291-2295m 456=2296-2300m 457=2301-2305m 458=2306-2310m 459=2311-2315m 460=2316-2320m 461=2321-2325m 462=2326-2330m 463=2331-2335m 464=2336-2340m 465=2341-2345m 466=2346-2350m 467=2351-2355m 468=2356-2360m 469=2361-2365m 470=2366-2370m 471=2371-2375m 472=2376-2380m 473=2381-2385m 474=2386-2390m 475=2391-2395m 476=2396-2400m 477=2401-2405m 478=2406-2410m 479=2411-2415m 480=2416-2420m 481=2421-2425m 482=2426-2430m 483=2431-2435m 484=2436-2440m 485=2441-2445m 486=2446-2450m 487=2451-2455m 488=2456-2460m 489=2461-2465m 490=2466-2470m 491=2471-2475m 492=2476-2480m 493=2481-2485m 494=2486-2490m 495=2491-2495m 496=2496-2500m 497=2501-2505m 498=2506-2510m 499=2511-2515m 500=2516-2520m 501=2521-2525m 502=2526-2530m 503=2531-2535m 504=2536-2540m 505=2541-2545m 506=2546-2550m 507=2551-2555m 508=2556-2560m 509=2561-2565m 510=2566-2570m 511=2571-2575m 512=2576-2580m 513=2581-2585m 514=2586-2590m 515=2591-2595m 516=2596-2600m 517=2601-2605m 518=2606-2610m 519=2611-2615m 520=2616-2620m 521=2621-2625m 522=2626-2630m 523=2631-2635m 524=2636-2640m 525=2641-2645m 526=2646-2650m 527=2651-2655m 528=2656-2660m 529=2661-2665m 530=2666-2670m 531=2671-2675m 532=2676-2680m 533=2681-2685m 534=2686-2690m 535=2691-2695m 536=2696-2700m 537=2701-2705m 538=2706-2710m 539=2711-2715m 540=2716-2720m 541=2721-2725m 542=2726-2730m 543=2731-2735m 544=2736-2740m 545=2741-2745m 546=2746-2750m 547=2751-2755m 548=2756-2760m 549=2761-2765m 550=2766-2770m 551=2771-2775m 552=2776-2780m 553=2781-2785m 554=2786-2790m 555=2791-2795m 556=2796-2800m 557=2801-2805m 558=2806-2810m 559=2811-2815m 560=2816-2820m 561=2821-2825m 562=2826-2830m 563=2831-2835m 564=2836-2840m 565=2841-2845m 566=2846-2850m 567=2851-2855m 568=2856-2860m 569=2861-2865m 570=2866-2870m 571=2871-2875m 572=2876-2880m 573=2881-2885m 574=2886-2890m 575=2891-2895m 576=2896-2900m 577=2901-2905m 578=2906-2910m 579=2911-2915m 580=2916-2920m 581=2921-2925m 582=2926-2930m 583=2931-2935m 584=2936-2940m 585=2941-2945m 586=2946-2950m 587=2951-2955m 588=2956-2960m 589=2961-2965m 590=2966-2970m 591=2971-2975m 592=2976-2980m 593=2981-2985m 594=2986-2990m 595=2991-2995m 596=2996-3000m 597=3001-3005m 598=3006-3010m 599=3011-3015m 600=3016-3020m 601=3021-3025m 602=3026-3030m 603=3031-3035m 604=3036-3040m 605=3041-3045m 606=3046-3050m 607=3051-3055m 608=3056-3060m 609=3061-3065m 610=3066-3070m 611=3071-3075m 612=3076-3080m 613=3081-3085m 614=3086-3090m 615=3091-3095m 616=3096-3100m 617=3101-3105m 618=3106-3110m 619=3111-3115m 620=3116-3120m 621=3121-3125m 622=3126-3130m 623=3131-3135m 624=3136-3140m 625=3141-3145m 626=3146-3150m 627=3151-3155m 628=3156-3160m 629=3161-3165m 630=3166-3170m 631=3171-3175m 632=3176-3180m 633=3181-3185m 634=3186-3190m 635=3191-3195m 636=3196-3200m 637=3201-3205m 638=3206-3210m 639=3211-3215m 640=3216-3220m 641=3221-3225m 642=3226-3230m 643=3231-3235m 644=3236-3240m 645=3241-3245m 646=3246-3250m 647=3251-3255m 648=3256-3260m 649=3261-3265m 650=3266-3270m 651=3271-3275m 652=3276-3280m 653=3281-3285m 654=3286-3290m 655=3291-3295m 656=3296-3300m 657=3301-3305m 658=3306-3310m 659=3311-3315m 660=3316-3320m 661=3321-3325m 662=3326-3330m 663=3331-3335m 664=3336-3340m 665=3341-3345m 666=3346-3350m 667=3351-3355m 668=3356-3360m 669=3361-3365m 670=3366-3370m 671=3371-3375m 672=3376-3380m 673=3381-3385m 674=3386-3390m 675=3391-3395m 676=3396-3400m 677=3401-3405m 678=3406-3410m 679=3411-3415m 680=3416-3420m 681=3421-3425m 682=3426-3430m 683=3431-3435m 684=3436-3440m 685=3441-3445m 686=3446-3450m 687=3451-3455m 688=3456-3460m 689=3461-3465m 690=3466-3470m 691=3471-3475m 692=3476-3480m 693=3481-3485m 694=3486-3490m 695=3491-3495m 696=3496-3500m 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763=3831-3835m 764=3836-3840m 765=3841-3845m 766=3846-3850m 767=3851-3855m 768=3856-3860m 769=3861-3865m 770=3866-3870m 771=3871-3875m 772=3876-3880m 773=3881-3885m 774=3886-3890m 775=3891-3895m 776=3896-3900m 777=3901-3905m 778=3906-3910m 779=3911-3915m 780=3916-3920m 781=3921-3925m 782=3926-3930m 783=3931-3935m 784=3936-3940m 785=3941-3945m 786=3946-3950m 787=3951-3955m 788=3956-3960m 789=3961-3965m 790=3966-3970m 791=3971-3975m 792=3976-3980m 793=3981					



Ministry of Natural Resources and Forestry
Make-a-Map: Natural Heritage Areas

PIN4450660126 - NAP023_2

Notes:
Enter map notes:



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Projection: Web Mercator



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Projection: Web Mercator














































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Legend

-  Accession Field
-  Woodland
-  Conservation Reserve
-  Provincial Park
-  Industrial Heritage System
-  Escarpment
-  Wetland
-  Provincially Significant Wetland
-  Provincially Significant Wetland Excluded
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SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input checked="" type="checkbox"/> WETLAND <input checked="" type="checkbox"/> AQUATIC	<input checked="" type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input checked="" type="checkbox"/> PARENT-MAN <input checked="" type="checkbox"/> ACIDIC BEDROCK <input checked="" type="checkbox"/> BASIC BEDROCK <input checked="" type="checkbox"/> CLIFF <input checked="" type="checkbox"/> CARB. BEDROCK	<input checked="" type="checkbox"/> LACUSTRINE <input checked="" type="checkbox"/> RIVERINE <input checked="" type="checkbox"/> BOTTOMLAND <input checked="" type="checkbox"/> TERRACE <input checked="" type="checkbox"/> VALLEY SLOPE <input checked="" type="checkbox"/> TABLELAND <input checked="" type="checkbox"/> ROLL UPLAND <input checked="" type="checkbox"/> CLIFF <input checked="" type="checkbox"/> TALLS <input checked="" type="checkbox"/> CRENSSE CAVE <input checked="" type="checkbox"/> ALVAR <input checked="" type="checkbox"/> ROCKLAND	<input checked="" type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL	<input checked="" type="checkbox"/> PLANKTON <input checked="" type="checkbox"/> SUBMERGED <input checked="" type="checkbox"/> FLOATING-LAND <input checked="" type="checkbox"/> GRAMINOID <input checked="" type="checkbox"/> FORB <input checked="" type="checkbox"/> MARSH <input checked="" type="checkbox"/> SWAMP <input checked="" type="checkbox"/> FEN <input checked="" type="checkbox"/> BGC <input checked="" type="checkbox"/> BRYOPHYTE <input checked="" type="checkbox"/> LICHEN <input checked="" type="checkbox"/> DECIDUOUS <input checked="" type="checkbox"/> CONIFEROUS <input checked="" type="checkbox"/> MIXED	<input checked="" type="checkbox"/> LAKE <input checked="" type="checkbox"/> POND <input checked="" type="checkbox"/> RIVER <input checked="" type="checkbox"/> STREAM <input checked="" type="checkbox"/> FLOODPLAIN <input checked="" type="checkbox"/> MARSH <input checked="" type="checkbox"/> SWAMP <input checked="" type="checkbox"/> FEN <input checked="" type="checkbox"/> BGC <input checked="" type="checkbox"/> BARREN <input checked="" type="checkbox"/> THEDGAW <input checked="" type="checkbox"/> PRAIRIE <input checked="" type="checkbox"/> THICKET <input checked="" type="checkbox"/> SAVANNAH <input checked="" type="checkbox"/> WOODLAND <input checked="" type="checkbox"/> FOREST <input checked="" type="checkbox"/> PLANTATION
SITE			COVER		
<input checked="" type="checkbox"/> OPEN WATER <input checked="" type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SUPRACIAL DEP. <input checked="" type="checkbox"/> BEDROCK		<input checked="" type="checkbox"/> OPEN <input checked="" type="checkbox"/> BEACH / BAR <input checked="" type="checkbox"/> SAND DUNE <input checked="" type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> OPEN <input checked="" type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED		

SIZE CLASS ANALYSIS:						
	< 10	10 - 24	25 - 50	> 50		
STANDING SNAGS:	<i>R</i>	<i>N</i>	<i>N</i>	<i>N</i>		
DEADFALL / LOGS:	<i>R</i>	<i>N</i>	<i>N</i>	<i>N</i>		
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT						
COMM. AGE :	<input checked="" type="checkbox"/> PIONEER	<input type="checkbox"/> YOUNG	<input type="checkbox"/> MID-AGE	<input type="checkbox"/> MATURE	<input type="checkbox"/> OLD	<input type="checkbox"/> GROWTH

Notas:

TREE TALLY BY SPECIES:

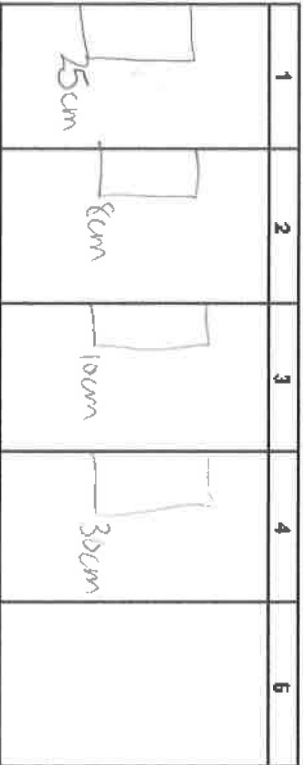
PRISM FACTOR

STAND COMPOSITION:

Notes:

ELC		SITE: NHP/118/1023	
POLYGON: 5		DATE: June 20 2016	
SURVEYOR(S): DEC/118		UTM	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100



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JJ		TEXTURE		2	
JK					

ELC	SITE:	NAPIR1023
PLANT	POLYCON:	2
SPECIES	DATE:	June 20 2016
LIST	SURVEYORS:	DGC DLA

SOIL TEXTURE & HORIZON	1	2	3	4	5
0-10 cm Reddish 2cm 10-20 cm Brownish 2cm 20-30 cm Brownish 2cm 30-40 cm Brownish 2cm 40-50 cm Brownish 2cm 50-60 cm Brownish 2cm 60-70 cm Brownish 2cm 70-80 cm Brownish 2cm 80-90 cm Brownish 2cm 90-100 cm Brownish 2cm					

DEPTH TO TOP	
MOISTLES	
GLEY	
BEDROCK	
WATER TABLE	
CARBONATES	
DEPTH OF ORGANICS	
PORE SIZE DISC #1	
PORE SIZE DISC #2	
MOISTURE REGIME	
SOIL SURVEY MAP	
LEGEND CLASS	

Page of

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <i>Lavaland</i>	POLYGON: <i>4</i>
	SURVEYOR(S): <i>DC</i>	DATE: <i>July 24</i>
	UTM-Z: <i>18</i>	UTM-E: <i>1630</i>

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN. <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> CLASTICINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL <input type="checkbox"/> COVER	<input type="checkbox"/> PLANTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING <input type="checkbox"/> GRAINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DEPENDENT <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POOL <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THicket <input type="checkbox"/> SAVANNAH <input type="checkbox"/> GRASSLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PONTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	1	4	<i>W. Pine >> T. Aspen >> W. Fir</i>
2 SUB-CANOPY	2-3	3	<i>W. Ash >> W. Pine >> W. Cedar >> R. Cedar</i>
3 UNDERSTOREY	4-5	2	<i>Buckhorn >> P. Ash >> W. Cedar</i>
4 GRO. LAYER	6-7	1	<i>Grass >> Aster >> Strawberry >> Hawkweed</i>

HT CODES: 1 = 25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-2 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = 0-0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR 2 = 10% < CVR 3 = 25% < CVR 4 = 50% < CVR 5 = 60% < CVR 6 = 70% < CVR 7 = 80% < CVR 8 = 90% < CVR 9 = 100% < CVR

STAND COMPOSITION: *Aspen >> W. Pine >> W. Elm*

BA: *2*

SIZE CLASS ANALYSIS:

STANDING SNAGS:	0	< 10	10-24	A	25-50	N	> 50
DEADFALL / LOGS:	0	0	0	0	0	0	0

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE:

PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH
---------	-------	---------	--------	---------------

SOIL ANALYSIS:

TEXTURE: <i>S.L.</i>	DEPTH TO MOTTLES / GLEY: <i>g = 999</i>	G = <i>999</i>
MOISTURE: <i>dry</i>	DEPTH OF ORGANICS: <i>3</i>	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: <i>15</i>	(cm)

COMMUNITY CLASSIFICATION:

ELC CODE

COMMUNITY CLASS:	
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	<i>W. Fresh White Pine - hardwood mixed forest type F0M12-3</i>
INCLUSION	<i>0-6 Poplar Dec. forest type F0M13-1</i>
COMPLEX	

Notes:

ELC STAND CHARACTERISTICS	SITE: <i>NPP181023</i>
	POLYGON: <i>4</i>
	DATE: <i>June 20 2015</i>

TREE TALLY BY SPECIES:

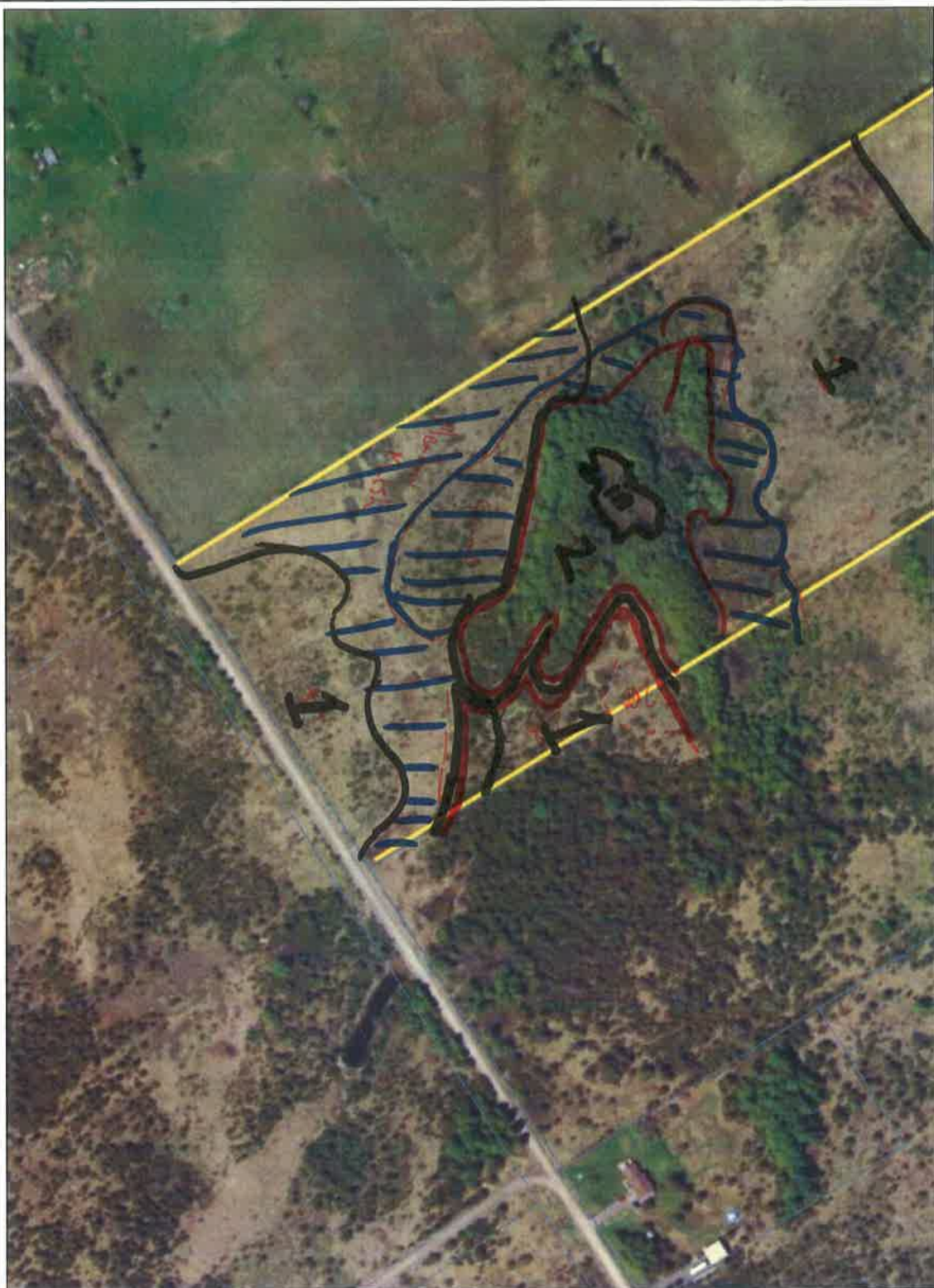
PRISM FACTOR: *2*

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
<i>W. Pine</i>	7	6	2	2	4	21	56
<i>W. Elm</i>	1	1	2	1	3	8	37
<i>W. Cedar</i>	1	1	1	1	1	5	23
<i>W. Ash</i>	1	1	1	1	1	5	23
<i>W. Fir</i>	1	1	1	1	1	5	23
<i>W. Alder</i>	1	1	1	1	1	5	23
<i>W. Birch</i>	1	1	1	1	1	5	23
<i>W. Spruce</i>	1	1	1	1	1	5	23
<i>W. Larch</i>	1	1	1	1	1	5	23
<i>W. Tamarac</i>	1	1	1	1	1	5	23
<i>W. Juniper</i>	1	1	1	1	1	5	23
<i>W. Cypress</i>	1	1	1	1	1	5	23
<i>W. Redwood</i>	1	1	1	1	1	5	23
<i>W. Sequoia</i>	1	1	1	1	1	5	23
<i>W. Douglas</i>	1	1	1	1	1	5	23
<i>W. Gambel</i>	1	1	1	1	1	5	23
<i>W. Sitka</i>	1	1	1	1	1	5	23
<i>W. Western</i>	1	1	1	1	1	5	23
<i>W. White</i>	1	1	1	1	1	5	23
<i>W. Black</i>	1	1	1	1	1	5	23
<i>W. Green</i>	1	1	1	1	1	5	23
<i>W. Yellow</i>	1	1	1	1	1	5	23
<i>W. Purple</i>	1	1	1	1	1	5	23
<i>W. Brown</i>	1	1	1	1	1	5	23
<i>W. Pink</i>	1	1	1	1	1	5	23
<i>W. Grey</i>	1	1	1	1	1	5	23
<i>W. Blue</i>	1	1	1	1	1	5	23
<i>W. Orange</i>	1	1	1	1	1	5	23
<i>W. Red</i>	1	1	1	1	1	5	23
<i>W. Yellow</i>	1	1	1	1	1	5	23
<i>W. Green</i>	1	1	1	1	1	5	23
<i>W. Blue</i>	1	1	1	1	1	5	23
<i>W. Purple</i>	1	1	1	1	1	5	23
<i>W. Brown</i>	1	1	1	1	1	5	23
<i>W. Pink</i>	1	1	1	1	1	5	23
<i>W. Grey</i>	1	1	1	1	1	5	23
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<i>W. Purple</i>	1	1	1	1	1	5	23
<i>W. Brown</i>	1	1	1	1	1	5	23
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<i>W. Brown</i>	1	1	1	1	1	5	23
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<i>W. Blue</i>	1	1	1	1	1	5	23
<i>W. Purple</i>	1	1	1	1	1	5	23
<i>W. Brown</i>	1	1	1	1	1	5	23
<i>W. Pink</i>	1	1	1	1	1		

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ELC PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

Page of



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Projection: Web Mercator













































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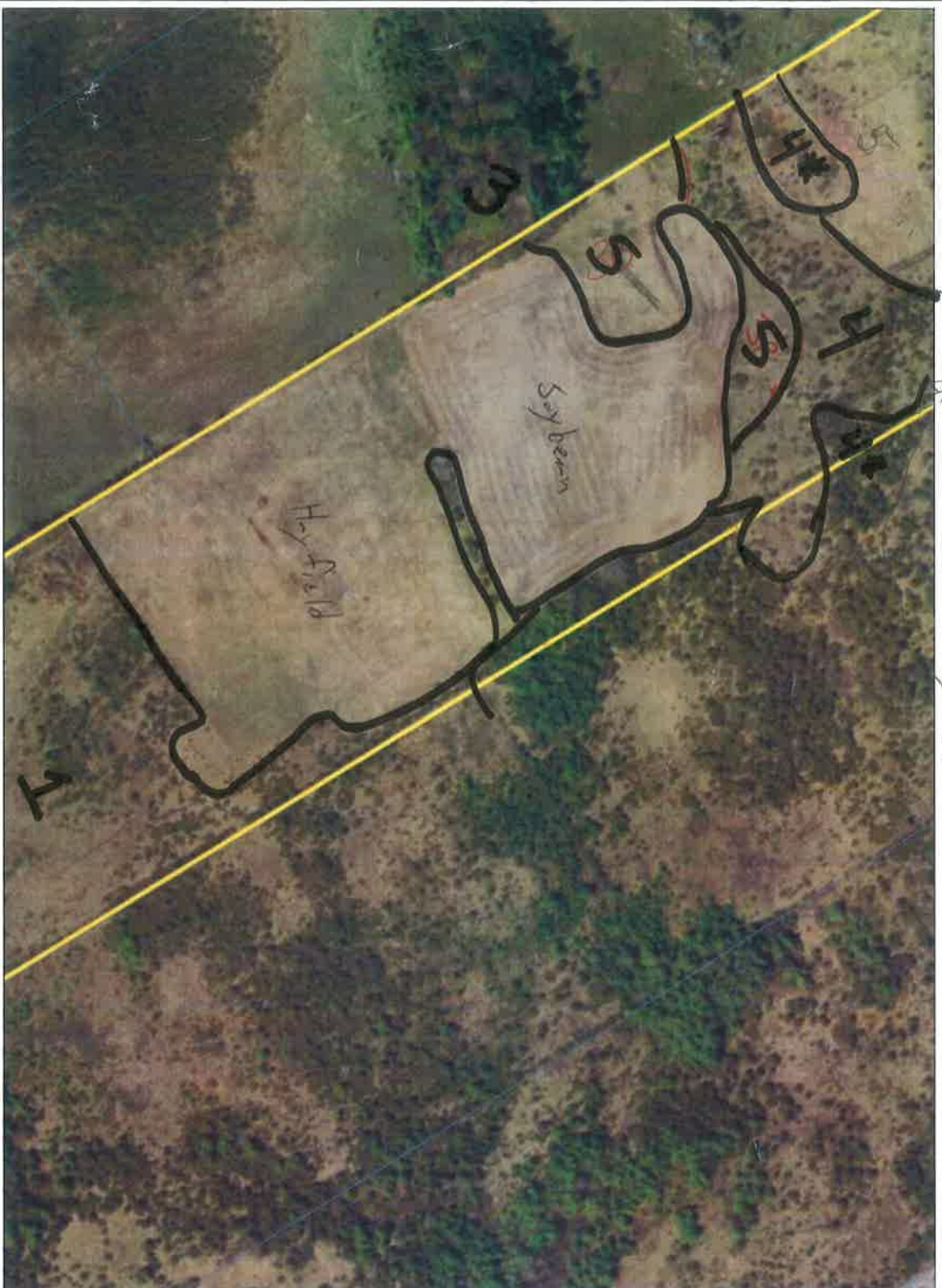
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Legend

-  Acreswheat Parcel
-  Wetland
-  Urban/semi-urban
-  Barren/low forest
-  Inundated/low forest
-  Ecological
-  Wetland
-  Provincial/semi-urban
-  Non-forest/low forest
-  Wetland/low forest
-  Urban/low forest
-  Provincial/semi-urban
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-  Provincial/semi-urban





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Legend

- Assessment Parcel
- Water
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecotone
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Wetland
- Unwetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Sciences ANHSI
- Provincially Significant Earth Sciences ANHSI
- Greenbelt Plan
- Boundary
- River Valley Corridor
- Land Use Designations
- Protected Countryside
- Town and Village
- Hamlet
- Urban River Valley
- Specialty Cropland
- Nature Escapement Plan (NEP)
- Boundary
- Protected Open Space System
- Land Use Designations
- Escapement Natural Area
- Escapement Protection Area
- Escapement Road Area
- Wilderness Road Extension
- Escapement Recreation Area
- Urban Area
- New Urban Centre
- Oak Ridge Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Nature Core Area
- Nature Linkage Area
- Coastal Area
- Rural Settlement
- Rural Settlement
- Rural Settlement
- Rural Settlement
- Rural Settlement





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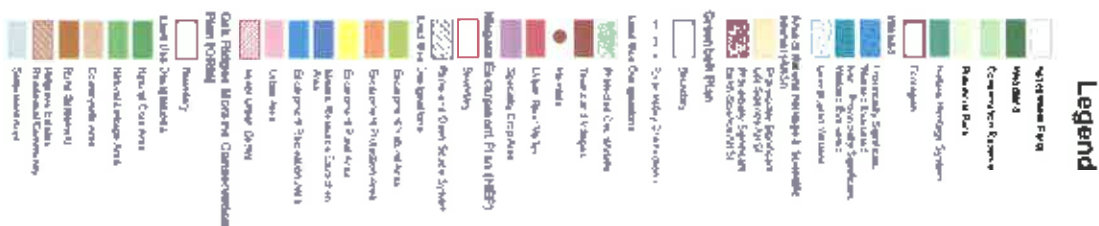
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Legend

-  Assessment Parcel
-  Wooded
-  Cultivated
-  Provincial Park
-  Natural Heritage System
-  Ecotone
-  Wetland
-  Previously Significant Wetland
-  Wetland
-  Wetland
-  Wetland
-  Wetland
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<div style="text-align: center;"> <h1>ELC</h1> <p>SOLIS, ONTARIO</p> </div>	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

[illegible]

SOIL					
TEXTURE x HORIZON					
	1	2	3	4	5
A TEXTURE:					
COURSE FRAGMENTS					
B TEXTURE:					
COURSE FRAGMENTS					
C TEXTURE:					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE					
SURFACE STONEINESS					
SURFACE ROCKINESS					
DEPTH TO / OF					
MOTTLES					
GLEY					
BEDROCK					
WATER TABLE					
CARBONATES					
DEPTH OF ORGANICS					
PORE SIZE DISC #1					
PORE SIZE DISC #2					
MOISTURE REGIME					
SOIL SURVEY MAP					
LEGEND CLASS					

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <i>Loc 1st MIP 038</i>	POLYGON: <i>3</i>
	SURVEYOR(S): <i>DLC RWS</i>	DATE: <i>Nov 22</i>
UTM2: <i></i>	UTM1: <i></i>	UTM3: <i></i>

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LAKESTRINE	G NATURAL	G PLANTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G RIVER
G AQUATIC	G PARABENT MIN.	G BOTTOMLAND		G FLOATING L.D.	G RIVER
	G ACIDIC BEDROCK	G TERRACE		G GRASSLAND	G STEAM
	G BASIC BEDROCK	G VALLEY SLOPE		G FOREST	G MARSH
	G CLIFF	G TALLEST		G LICHEN	G SWAMP
	G CARB. BEDROCK	G ROLL UPLAND		G BERBERIDGE	G FEN
		G CREEK / CAVE		G DECIDUOUS	G BOG
		G ALTAR	COVER	G CONIFEROUS	G BARREN
G OPEN WATER		G ROCKLAND		G MIXED	G MEADOW
G SHALLOW WATER		G BEACH / BAR			G PRAIRIE
G SURFICIAL DEP.		G SAND / DUNE			G THICKET
G BEDROCK		G BLUFF			G SAVANNAH
					G WOODLAND
					G FOREST
					G PLANTATION

STAND DESCRIPTION:		
LAYER	HT	CVR
1 CANOPY	1	4
2 SUB-CANOPY	25	3
3 UNDERSTORY	35	1
4 GRD. LAYER	67	4

HT CODES: 1 = >25m 2 = 10-4HT 25m 3 = 25-4HT 10m 4 = 1-4HT 2m 5 = 0.5-4HT 1m 6 = 0.25-4HT 0.5m 7 = HT < 0.2m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = CVR > 50%

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS:		
STANDING SNAGS:	DEADFALL / LOGS:	ABUNDANCE CODES:
1	2	N = NONE R = RARE O = OCCASIONAL A = ABUNDANT
2	3	
3	4	
4	5	

COMM. AGE: PIONEER YOUNG MIDDLE-AGE MATURE OLD GROWTH

SOIL ANALYSIS:		
TEXTURE: <i>Silt</i>	DEPTH TO MOTILES / GLEY	g = 759 G = 999
MOISTURE: <i>0</i>	DEPTH OF ORGANICS:	999 (cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	25 (cm)

COMMUNITY CLASS:	ELC CODE
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	<i>Sugar Maple Forest</i>
INCLUSION	
COMPLEX	

ELC STAND CHARACTERISTICS	SITE: <i></i>	POLYGON: <i></i>
	DATE: <i></i>	SURVEYOR(S): <i></i>

TREE TALLY BY SPECIES:						
SPECIES	PRISM FACTOR					REL. AVG
	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	
<i>Sugar Maple</i>	5	11				
<i>E. Hemlock</i>	8					
<i>Am. Elm</i>	1	14				
<i>White Pine</i>	3	1				
<i>White Ash</i>						

STAND COMPOSITION:	
TOTAL	17
BASAL AREA (BA)	12
DEAD	

COMMUNITY PROFILE DIAGRAM	
<i>White was overused from</i>	
<i>fewer</i>	
<i>no access to water to soil</i>	

Notes:

A few possibilities:
Dry (0.1) → FODMS=8
Fresh (2-3) → FODMS=8
Moist (4-6) → FODMS=4

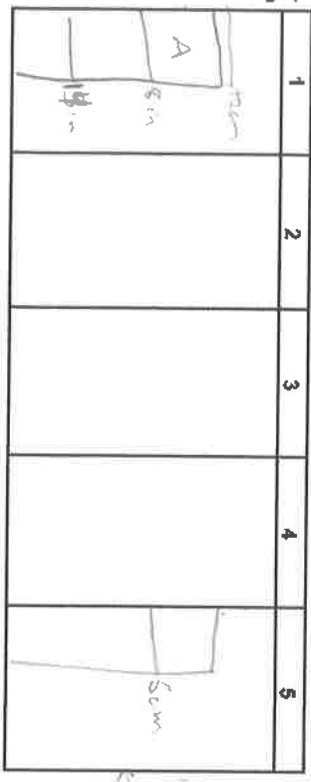
ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <i>Lowland NMP 2R</i>	POLYGON: <i>2</i>
	SURVEYOR(S): <i>DLC</i>	DATE: <i>June 23</i>
UTM ZONE: <i>18N</i>	UTM EASTING: <i>5636</i>	UTM NORTHING: <i>736</i>

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORCHARD G MINERAL SOIL G PARENT MTL G ACIDIC BEDROCK G SAND BEDROCK G GRAVEL BEDROCK	G LAKESTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G SOIL UPLAND G TALLS G DISTANCE, CAVE	G CULTURAL G PLANTATION	G PLANKTON G SUBMERGED G FLOATING LVD G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP G BEDROCK	G OPEN G SHRUB G TREED	G OPEN G SHRUB G TREED			

STAND DESCRIPTION			SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)		
LAYER	HT	CVR	(> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)		
1 CANOPY	<i>2</i>	<i>4</i>	<i>White oaks</i>		
2 SUB-CANOPY	<i>3</i>	<i>0</i>			
3 UNDERSTOREY	<i>4.5</i>	<i>1</i>	<i>Pinkish Ash</i>		
4 GRD. LAYER	<i>6.7</i>	<i>2</i>	<i>White oaks > Yellow Ash > Yellow cress</i>		
HT CODES: <i>1 = < 2.5 m 2 = 2.5 - 4.0 m 3 = 4.0 - 6.0 m 4 = 6.0 - 8.0 m 5 = 8.0 - 10.0 m 6 = 10.0 - 12.0 m 7 = 12.0 - 15.0 m 8 = 15.0 - 20.0 m 9 = 20.0 - 25.0 m 10 = 25.0 - 30.0 m 11 = 30.0 - 35.0 m 12 = 35.0 - 40.0 m 13 = 40.0 - 45.0 m 14 = 45.0 - 50.0 m 15 = 50.0 - 55.0 m 16 = 55.0 - 60.0 m 17 = 60.0 - 65.0 m 18 = 65.0 - 70.0 m 19 = 70.0 - 75.0 m 20 = 75.0 - 80.0 m 21 = 80.0 - 85.0 m 22 = 85.0 - 90.0 m 23 = 90.0 - 95.0 m 24 = 95.0 - 100.0 m 25 = 100.0 - 105.0 m 26 = 105.0 - 110.0 m 27 = 110.0 - 115.0 m 28 = 115.0 - 120.0 m 29 = 120.0 - 125.0 m 30 = 125.0 - 130.0 m 31 = 130.0 - 135.0 m 32 = 135.0 - 140.0 m 33 = 140.0 - 145.0 m 34 = 145.0 - 150.0 m 35 = 150.0 - 155.0 m 36 = 155.0 - 160.0 m 37 = 160.0 - 165.0 m 38 = 165.0 - 170.0 m 39 = 170.0 - 175.0 m 40 = 175.0 - 180.0 m 41 = 180.0 - 185.0 m 42 = 185.0 - 190.0 m 43 = 190.0 - 195.0 m 44 = 195.0 - 200.0 m 45 = 200.0 - 205.0 m 46 = 205.0 - 210.0 m 47 = 210.0 - 215.0 m 48 = 215.0 - 220.0 m 49 = 220.0 - 225.0 m 50 = 225.0 - 230.0 m 51 = 230.0 - 235.0 m 52 = 235.0 - 240.0 m 53 = 240.0 - 245.0 m 54 = 245.0 - 250.0 m 55 = 250.0 - 255.0 m 56 = 255.0 - 260.0 m 57 = 260.0 - 265.0 m 58 = 265.0 - 270.0 m 59 = 270.0 - 275.0 m 60 = 275.0 - 280.0 m 61 = 280.0 - 285.0 m 62 = 285.0 - 290.0 m 63 = 290.0 - 295.0 m 64 = 295.0 - 300.0 m 65 = 300.0 - 305.0 m 66 = 305.0 - 310.0 m 67 = 310.0 - 315.0 m 68 = 315.0 - 320.0 m 69 = 320.0 - 325.0 m 70 = 325.0 - 330.0 m 71 = 330.0 - 335.0 m 72 = 335.0 - 340.0 m 73 = 340.0 - 345.0 m 74 = 345.0 - 350.0 m 75 = 350.0 - 355.0 m 76 = 355.0 - 360.0 m 77 = 360.0 - 365.0 m 78 = 365.0 - 370.0 m 79 = 370.0 - 375.0 m 80 = 375.0 - 380.0 m 81 = 380.0 - 385.0 m 82 = 385.0 - 390.0 m 83 = 390.0 - 395.0 m 84 = 395.0 - 400.0 m 85 = 400.0 - 405.0 m 86 = 405.0 - 410.0 m 87 = 410.0 - 415.0 m 88 = 415.0 - 420.0 m 89 = 420.0 - 425.0 m 90 = 425.0 - 430.0 m 91 = 430.0 - 435.0 m 92 = 435.0 - 440.0 m 93 = 440.0 - 445.0 m 94 = 445.0 - 450.0 m 95 = 450.0 - 455.0 m 96 = 455.0 - 460.0 m 97 = 460.0 - 465.0 m 98 = 465.0 - 470.0 m 99 = 470.0 - 475.0 m 100 = 475.0 - 480.0 m 101 = 480.0 - 485.0 m 102 = 485.0 - 490.0 m 103 = 490.0 - 495.0 m 104 = 495.0 - 500.0 m 105 = 500.0 - 505.0 m 106 = 505.0 - 510.0 m 107 = 510.0 - 515.0 m 108 = 515.0 - 520.0 m 109 = 520.0 - 525.0 m 110 = 525.0 - 530.0 m 111 = 530.0 - 535.0 m 112 = 535.0 - 540.0 m 113 = 540.0 - 545.0 m 114 = 545.0 - 550.0 m 115 = 550.0 - 555.0 m 116 = 555.0 - 560.0 m 117 = 560.0 - 565.0 m 118 = 565.0 - 570.0 m 119 = 570.0 - 575.0 m 120 = 575.0 - 580.0 m 121 = 580.0 - 585.0 m 122 = 585.0 - 590.0 m 123 = 590.0 - 595.0 m 124 = 595.0 - 600.0 m 125 = 600.0 - 605.0 m 126 = 605.0 - 610.0 m 127 = 610.0 - 615.0 m 128 = 615.0 - 620.0 m 129 = 620.0 - 625.0 m 130 = 625.0 - 630.0 m 131 = 630.0 - 635.0 m 132 = 635.0 - 640.0 m 133 = 640.0 - 645.0 m 134 = 645.0 - 650.0 m 135 = 650.0 - 655.0 m 136 = 655.0 - 660.0 m 137 = 660.0 - 665.0 m 138 = 665.0 - 670.0 m 139 = 670.0 - 675.0 m 140 = 675.0 - 680.0 m 141 = 680.0 - 685.0 m 142 = 685.0 - 690.0 m 143 = 690.0 - 695.0 m 144 = 695.0 - 700.0 m 145 = 700.0 - 705.0 m 146 = 705.0 - 710.0 m 147 = 710.0 - 715.0 m 148 = 715.0 - 720.0 m 149 = 720.0 - 725.0 m 150 = 725.0 - 730.0 m 151 = 730.0 - 735.0 m 152 = 735.0 - 740.0 m 153 = 740.0 - 745.0 m 154 = 745.0 - 750.0 m 155 = 750.0 - 755.0 m 156 = 755.0 - 760.0 m 157 = 760.0 - 765.0 m 158 = 765.0 - 770.0 m 159 = 770.0 - 775.0 m 160 = 775.0 - 780.0 m 161 = 780.0 - 785.0 m 162 = 785.0 - 790.0 m 163 = 790.0 - 795.0 m 164 = 795.0 - 800.0 m 165 = 800.0 - 805.0 m 166 = 805.0 - 810.0 m 167 = 810.0 - 815.0 m 168 = 815.0 - 820.0 m 169 = 820.0 - 825.0 m 170 = 825.0 - 830.0 m 171 = 830.0 - 835.0 m 172 = 835.0 - 840.0 m 173 = 840.0 - 845.0 m 174 = 845.0 - 850.0 m 175 = 850.0 - 855.0 m 176 = 855.0 - 860.0 m 177 = 860.0 - 865.0 m 178 = 865.0 - 870.0 m 179 = 870.0 - 875.0 m 180 = 875.0 - 880.0 m 181 = 880.0 - 885.0 m 182 = 885.0 - 890.0 m 183 = 890.0 - 895.0 m 184 = 895.0 - 900.0 m 185 = 900.0 - 905.0 m 186 = 905.0 - 910.0 m 187 = 910.0 - 915.0 m 188 = 915.0 - 920.0 m 189 = 920.0 - 925.0 m 190 = 925.0 - 930.0 m 191 = 930.0 - 935.0 m 192 = 935.0 - 940.0 m 193 = 940.0 - 945.0 m 194 = 945.0 - 950.0 m 195 = 950.0 - 955.0 m 196 = 955.0 - 960.0 m 197 = 960.0 - 965.0 m 198 = 965.0 - 970.0 m 199 = 970.0 - 975.0 m 200 = 975.0 - 980.0 m 201 = 980.0 - 985.0 m 202 = 985.0 - 990.0 m 203 = 990.0 - 995.0 m 204 = 995.0 - 1000.0 m 205 = 1000.0 - 1005.0 m 206 = 1005.0 - 1010.0 m 207 = 1010.0 - 1015.0 m 208 = 1015.0 - 1020.0 m 209 = 1020.0 - 1025.0 m 210 = 1025.0 - 1030.0 m 211 = 1030.0 - 1035.0 m 212 = 1035.0 - 1040.0 m 213 = 1040.0 - 1045.0 m 214 = 1045.0 - 1050.0 m 215 = 1050.0 - 1055.0 m 216 = 1055.0 - 1060.0 m 217 = 1060.0 - 1065.0 m 218 = 1065.0 - 1070.0 m 219 = 1070.0 - 1075.0 m 220 = 1075.0 - 1080.0 m 221 = 1080.0 - 1085.0 m 222 = 1085.0 - 1090.0 m 223 = 1090.0 - 1095.0 m 224 = 1095.0 - 1100.0 m 225 = 1100.0 - 1105.0 m 226 = 1105.0 - 1110.0 m 227 = 1110.0 - 1115.0 m 228 = 1115.0 - 1120.0 m 229 = 1120.0 - 1125.0 m 230 = 1125.0 - 1130.0 m 231 = 1130.0 - 1135.0 m 232 = 1135.0 - 1140.0 m 233 = 1140.0 - 1145.0 m 234 = 1145.0 - 1150.0 m 235 = 1150.0 - 1155.0 m 236 = 1155.0 - 1160.0 m 237 = 1160.0 - 1165.0 m 238 = 1165.0 - 1170.0 m 239 = 1170.0 - 1175.0 m 240 = 1175.0 - 1180.0 m 241 = 1180.0 - 1185.0 m 242 = 1185.0 - 1190.0 m 243 = 1190.0 - 1195.0 m 244 = 1195.0 - 1200.0 m 245 = 1200.0 - 1205.0 m 246 = 1205.0 - 1210.0 m 247 = 1210.0 - 1215.0 m 248 = 1215.0 - 1220.0 m 249 = 1220.0 - 1225.0 m 250 = 1225.0 - 1230.0 m 251 = 1230.0 - 1235.0 m 252 = 1235.0 - 1240.0 m 253 = 1240.0 - 1245.0 m 254 = 1245.0 - 1250.0 m 255 = 1250.0 - 1255.0 m 256 = 1255.0 - 1260.0 m 257 = 1260.0 - 1265.0 m 258 = 1265.0 - 1270.0 m 259 = 1270.0 - 1275.0 m 260 = 1275.0 - 1280.0 m 261 = 1280.0 - 1285.0 m 262 = 1285.0 - 1290.0 m 263 = 1290.0 - 1295.0 m 264 = 1295.0 - 1300.0 m 265 = 1300.0 - 1305.0 m 266 = 1305.0 - 1310.0 m 267 = 1310.0 - 1315.0 m 268 = 1315.0 - 1320.0 m 269 = 1320.0 - 1325.0 m 270 = 1325.0 - 1330.0 m 271 = 1330.0 - 1335.0 m 272 = 1335.0 - 1340.0 m 273 = 1340.0 - 1345.0 m 274 = 1345.0 - 1350.0 m 275 = 1350.0 - 1355.0 m 276 = 1355.0 - 1360.0 m 277 = 1360.0 - 1365.0 m 278 = 1365.0 - 1370.0 m 279 = 1370.0 - 1375.0 m 280 = 1375.0 - 1380.0 m 281 = 1380.0 - 1385.0 m 282 = 1385.0 - 1390.0 m 283 = 1390.0 - 1395.0 m 284 = 1395.0 - 1400.0 m 285 = 1400.0 - 1405.0 m 286 = 1405.0 - 1410.0 m 287 = 1410.0 - 1415.0 m 288 = 1415.0 - 1420.0 m 289 = 1420.0 - 1425.0 m 290 = 1425.0 - 1430.0 m 291 = 1430.0 - 1435.0 m 292 = 1435.0 - 1440.0 m 293 = 1440.0 - 1445.0 m 294 = 1445.0 - 1450.0 m 295 = 1450.0 - 1455.0 m 296 = 1455.0 - 1460.0 m 297 = 1460.0 - 1465.0 m 298 = 1465.0 - 1470.0 m 299 = 1470.0 - 1475.0 m 300 = 1475.0 - 1480.0 m 301 = 1480.0 - 1485.0 m 302 = 1485.0 - 1490.0 m 303 = 1490.0 - 1495.0 m 304 = 1495.0 - 1500.0 m 305 = 1500.0 - 1505.0 m 306 = 1505.0 - 1510.0 m 307 = 1510.0 - 1515.0 m 308 = 1515.0 - 1520.0 m 309 = 1520.0 - 1525.0 m 310 = 1525.0 - 1530.0 m 311 = 1530.0 - 1535.0 m 312 = 1535.0 - 1540.0 m 313 = 1540.0 - 1545.0 m 314 = 1545.0 - 1550.0 m 315 = 1550.0 - 1555.0 m 316 = 1555.0 - 1560.0 m 317 = 1560.0 - 1565.0 m 318 = 1565.0 - 1570.0 m 319 = 1570.0 - 1575.0 m 320 = 1575.0 - 1580.0 m 321 = 1580.0 - 1585.0 m 322 = 1585.0 - 1590.0 m 323 = 1590.0 - 1595.0 m 324 = 1595.0 - 1600.0 m 325 = 1600.0 - 1605.0 m 326 = 1605.0 - 1610.0 m 327 = 1610.0 - 1615.0 m 328 = 1615.0 - 1620.0 m 329 = 1620.0 - 1625.0 m 330 = 1625.0 - 1630.0 m 331 = 1630.0 - 1635.0 m 332 = 1635.0 - 1640.0 m 333 = 1640.0 - 1645.0 m 334 = 1645.0 - 1650.0 m 335 = 1650.0 - 1655.0 m 336 = 1655.0 - 1660.0 m 337 = 1660.0 - 1665.0 m 338 = 1665.0 - 1670.0 m 339 = 1670.0 - 1675.0 m 340 = 1675.0 - 1680.0 m 341 = 1680.0 - 1685.0 m 342 = 1685.0 - 1690.0 m 343 = 1690.0 - 1695.0 m 344 = 1695.0 - 1700.0 m 345 = 1700.0 - 1705.0 m 346 = 1705.0 - 1710.0 m 347 = 1710.0 - 1715.0 m 348 = 1715.0 - 1720.0 m 349 = 1720.0 - 1725.0 m 350 = 1725.0 - 1730.0 m 351 = 1730.0 - 1735.0 m 352 = 1735.0 - 1740.0 m 353 = 1740.0 - 1745.0 m 354 = 1745.0 - 1750.0 m 355 = 1750.0 - 1755.0 m 356 = 1755.0 - 1760.0 m 357 = 1760.0 - 1765.0 m 358 = 1765.0 - 1770.0 m 359 = 1770.0 - 1775.0 m 360 = 1775.0 - 1780.0 m 361 = 1780.0 - 1785.0 m 362 = 1785.0 - 1790.0 m 363 = 1790.0 - 1795.0 m 364 = 1795.0 - 1800.0 m 365 = 1800.0 - 1805.0 m 366 = 1805.0 - 1810.0 m 367 = 1810.0 - 1815.0 m 368 = 1815.0 - 1820.0 m 369 = 1820.0 - 1825.0 m 370 = 1825.0 - 1830.0 m 371 = 1830.0 - 1835.0 m 372 = 1835.0 - 1840.0 m 373 = 1840.0 - 1845.0 m 374 = 1845.0 - 1850.0 m 375 = 1850.0 - 1855.0 m 376 = 1855.0 - 1860.0 m 377 = 1860.0 - 1865.0 m 378 = 1865.0 - 1870.0 m 379 = 1870.0 - 1875.0 m 380 = 1875.0 - 1880.0 m 381 = 1880.0 - 1885.0 m 382 = 1885.0 - 1890.0 m 383 = 1890.0 - 1895.0 m 384 = 1895.0 - 1900.0 m 385 = 1900.0 - 1905.0 m 386 = 1905.0 - 1910.0 m 387 = 1910.0 - 1915.0 m 388 = 1915.0 - 1920.0 m 389 = 1920.0 - 1925.0 m 390 = 1925.0 - 1930.0 m 391 = 1930.0 - 1935.0 m 392 = 1935.0 - 1940.0 m 393 = 1940.0 - 1945.0 m 394 = 1945.0 - 1950.0 m 395 = 1950.0 - 1955.0 m 396 = 1955.0 - 1960.0 m 397 = 1960.0 - 1965.0 m 398 = 1965.0 - 1970.0 m 399 = 1970.0 - 1975.0 m 400 = 1975.0 - 1980.0 m 401 = 1980.0 - 1985.0 m 402 = 1985.0 - 1990.0 m 403 = 1990.0 - 1995.0 m 404 = 1995.0 - 2000.0 m 405 = 2000.0 - 2005.0 m 406 = 2005.0 - 2010.0 m 407 = 2010.0 - 2015.0 m 408 = 2015.0 - 2020.0 m 409 = 2020.0 - 2025.0 m 410 = 2025.0 - 2030.0 m 411 = 2030.0 - 2035.0 m 412 = 2035.0 - 2040.0 m 413 = 2040.0 - 2045.0 m 414 = 2045.0 - 2050.0 m 415 = 2050.0 - 2055.0 m 416 = 2055.0 - 2060.0 m 417 = 2060.0 - 2065.0 m 418 = 2065.0 - 2070.0 m 419 = 2070.0 - 2075.0 m 420 = 2075.0 - 2080.0 m 421 = 2080.0 - 2085.0 m 422 = 2085.0 - 2090.0 m 423 = 2090.0 - 2095.0 m 424 = 2095.0 - 2100.0 m 425 = 2100.0 - 2105.0 m 426 = 2105.0 - 2110.0 m 427 = 2110.0 - 2115.0 m 428 = 2115.0 - 2120.0 m 429 = 2120.0 - 2125.0 m 430 = 2125.0 - 2130.0 m 431 = 2130.0 - 2135.0 m 432 = 2135.0 - 2140.0 m 433 = 2140.0 - 2145.0 m 434 = 2145.0 - 2150.0 m 435 = 2150.0 - 2155.0 m 436 = 2155.0 - 2160.0 m 437 = 2160.0 - 2165.0 m 438 = 2165.0 - 2170.0 m 439 = 2170.0 - 2175.0 m 440 = 2175.0 - 2180.0 m 441 = 2180.0 - 2185.0 m 442 = 2185.0 - 2190.0 m 443 = 2190.0 - 2195.0 m 444 = 2195.0 - 2200.0 m 445 = 2200.0 - 2205.0 m 446 = 2205.0 - 2210.0 m 447 = 2210.0 - 2215.0 m 448 = 2215.0 - 2220.0 m 449 = 2220.0 - 2225.0 m 450 = 2225.0 - 2230.0 m 451 = 2230.0 - 2235.0 m 452 = 2235.0 - 2240.0 m 453 = 2240.0 - 2245.0 m 454 = 2245.0 - 2250.0 m 455 = 2250.0 - 2255.0 m 456 = 2255.0 - 2260.0 m 457 = 2260.0 - 2265.0 m 458 = 2265.0 - 2270.0 m 459 = 2270.0 - 2275.0 m 460 = 2275.0 - 2280.0 m 461 = 2280.0 - 2285.0 m 462 = 2285.0 - 2290.0 m 463 = 2290.0 - 2295.0 m 464 = 2295.0 - 2300.0 m 465 = 2300.0 - 2305.0 m 466 = 2305.0 - 2310.0 m 467 = 2310.0 - 2315.0 m 468 = 2315.0 - 2320.0 m 469 = 2320.0 - 2325.0 m 470 = 2325.0 - 2330.0 m 471 = 2330.0 - 2335.0 m 472 = 2335.0 - 2340.0 m 473 = 2340.0 - 2345.0 m 474 = 2345.0 - 2350.0 m 475 = 2350.0 - 2355.0 m 476 = 2355.0 - 2360.0 m 477 = 2360.0 - 2365.0 m 478 = 2365.0 - 2370.0 m 479 = 2370.0 - 2375.0 m 480 = 2375.0 - 2380.0 m 481 = 2380.0 - 2385.0 m 482 = 2385.0 - 2390.0 m 483 = 2390.0 - 2395.0 m 484 = 2395.0 - 2400.0 m 485 = 2400.0 - 2405.0 m 486 = 2405.0 - 2410.0 m 487 = 2410.0 - 2415.0 m 488 = 2415.0 - 2420.0 m 489 = 2420.0 - 2425.0 m 490 = 2425.0 - 2430.0 m 491 = 2430.0 - 2435.0 m 492 = 2435.0 - 2440.0 m 493 = 2440.0 - 2445.0 m 494 = 2445.0 - 2450.0 m 495 = 2450.0 - 2455.0 m 496 = 2455.0 - 2460.0 m 497 = 2460.0 - 2465.0 m 498 = 2465.0 - 2470.0 m 499 = 2470.0 - 2475.0 m 500 = 2475.0 - 2480.0 m 501 = 2480.0 - 2485.0 m 502 = 2485.0 - 2490.0 m 503 = 2490.0 - 2495.0 m 504 = 2495.0 - 2500.0 m 505 = 2500.0 - 2505.0 m 506 = 2505.0 - 2510.0 m 507 = 2510.0 - 2515.0 m 508 = 2515.0 - 2520.0 m 509 = 2520.0 - 2525.0 m 510 = 2525.0 - 2530.0 m 511 = 2530.0 - 2535.0 m 512 = 2535.0 - 2540.0 m 513 = 2540.0 - 2545.0 m 514 = 2545.0 - 2550.0 m 515 = 2550.0 - 2555.0 m 516 = 2555.0 - 2560.0 m 517 = 2560.0 - 2565.0 m 518 = 2565.0 - 2570.0 m 519 = 2570.0 - 2575.0 m 520 = 2575.0 - 2580.0 m 521 = 2580.0 - 2585.0 m 522 = 2585.0 - 2590.0 m 523 = 2590.0 - 2595.0 m 524 = 2595.0 - 2600.0 m 525 = 2600.0 - 2605.0 m 526 = 2605.0 - 2610.0 m 527 = 2610.0 - 2615.0 m 528 = 2615.0 - 2620.0 m 529 = 2620.0 - 2625.0 m 530 = 2625.0 - 2630.0 m 531 = 2630.0 - 2635.0 m 532 = 2635.0 - 2640.0 m 533 = 2640.0 - 2645.0 m 534 = 2645.0 - 2650.0 m 535 = 2650.0 - 2655.0 m 536 = 2655.0 - 2660.0 m 537 = 2660.0 - 2665.0 m 538 = 2665.0 - 2670.0 m 539 = 2670.0 - 2675.0 m 540 = 2675.0 - 2680.0 m 541 = 2680.0 - 2685.0 m 542 = 2685.0 - 2690.0 m 543 = 2690.0 - 2695.0 m 544 = 2695.0 - 2700.0 m 545 = 2700.0 - 2705.0 m 546 = 2705.0 - 2710.0 m 547 = 2710.0 - 2715.0 m 548 = 2715.0 - 2720.0 m 549 = 2720.0 - 2725.0 m 550 = 2725.0 - 2730.0 m 551 = 2730.0 - 2735.0 m 552 = 2735.0 - 2740.0 m 553 = 2740.0 - 2745.0 m 554 = 2745.0 - 2750.0 m 555 = 2750.0 - 2755.0 m 556 = 2755.0 - 2760.0 m 557 = 2760.0 - 2765.0 m 558 = 2765.0 - 2770.0 m 559 = 2770.0 - 2775.0 m 560 = 2775.0 - 2780.0 m 561 = 2780.0 - 2785.0 m 562 = 2785.0 - 2790.0 m 563 = 2790.0 - 2795.0 m 564 = 2795.0 - 2800.0 m 565 = 2800.0 - 2805.0 m 566 = 2805.0 - 2810.0 m 567 = 2810.0 - 2815.0 m 568 = 2815.0 - 2820.0 m 569 = 2820.0 - 2825.0 m 570 = 2825.0 - 2830.0 m 571 = 2830.0 - 28</i>					

ELC		SITE:	
POLYGON:		DATE:	
SURVEYORS: <i>DLC</i>		UTM	

PLANT SPECIES	POSITION	ASPECT	%	TYPE	CLASS	Z	EASTING	NORTHING
1	A	1	6	1	1	WT	2002953	410584
2								
3								
4								
5								



TEXTURE	1	2	3	4	5
A	1	2	3	4	5
B	1	2	3	4	5
C	1	2	3	4	5
D	1	2	3	4	5
E	1	2	3	4	5
F	1	2	3	4	5
G	1	2	3	4	5
H	1	2	3	4	5
I	1	2	3	4	5
J	1	2	3	4	5
K	1	2	3	4	5
L	1	2	3	4	5
M	1	2	3	4	5
N	1	2	3	4	5
O	1	2	3	4	5
P	1	2	3	4	5
Q	1	2	3	4	5
R	1	2	3	4	5
S	1	2	3	4	5
T	1	2	3	4	5
U	1	2	3	4	5
V	1	2	3	4	5
W	1	2	3	4	5
X	1	2	3	4	5
Y	1	2	3	4	5
Z	1	2	3	4	5

WHITTLES	1	2	3	4	5
1	1	2	3	4	5
2	1	2	3	4	5
3	1	2	3	4	5
4	1	2	3	4	5
5	1	2	3	4	5
6	1	2	3	4	5
7	1	2	3	4	5
8	1	2	3	4	5
9	1	2	3	4	5
10	1	2	3	4	5
11	1	2	3	4	5
12	1	2	3	4	5
13	1	2	3	4	5
14	1	2	3	4	5
15	1	2	3	4	5
16	1	2	3	4	5
17	1	2	3	4	5
18	1	2	3	4	5
19	1	2	3	4	5
20	1	2	3	4	5
21	1	2	3	4	5
22	1	2	3	4	5
23	1	2	3	4	5
24	1	2	3	4	5
25	1	2	3	4	5
26	1	2	3	4	5
27	1	2	3	4	5
28	1	2	3	4	5
29	1	2	3	4	5
30	1	2	3	4	5
31	1	2	3	4	5
32	1	2	3	4	5
33	1	2	3	4	5
34	1	2	3	4	5
35	1	2	3	4	5
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96	1	2	3	4	5
97	1	2	3	4	5
98	1	2	3	4	5
99	1	2	3	4	5
100	1	2	3	4	5

ELC		SITE:	
POLYGON:		DATE:	
SURVEYORS: <i>DLC</i>		UTM	

PLANT SPECIES	POSITION	ASPECT	%	TYPE	CLASS	Z	EASTING	NORTHING
1	A	1	6	1	1	WT	2002953	410584
2								
3								
4								
5								



TEXTURE	1	2	3	4	5
A	1	2	3	4	5
B	1	2	3	4	5
C	1	2	3	4	5
D	1	2	3	4	5
E	1	2	3	4	5
F	1	2	3	4	5
G	1	2	3	4	5
H	1	2	3	4	5
I	1	2	3	4	5
J	1	2	3	4	5
K	1	2	3	4	5
L	1	2	3	4	5
M	1	2	3	4	5
N	1	2	3	4	5
O	1	2	3	4	5
P	1	2	3	4	5
Q	1	2	3	4	5
R	1	2	3	4	5
S	1	2	3	4	5
T	1	2	3	4	5
U	1	2	3	4	5
V	1	2	3	4	5
W	1	2	3	4	5
X	1	2	3	4	5
Y	1	2	3	4	5
Z	1	2	3	4	5

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ELC	SITE	Loc 1st	NAP 038	POLYGON	8
	SURVEYOR(S)	DCRM	DATE	June 23	TIME
COMMUNITY DESCRIPTION & CLASSIFICATION	UTM Z	UTM E	UTM N	UTM W	

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POOL
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LV.	G FLOOD
	G ACIDIC BEDRK	G TERRACE		G GRASSLAND	G FIVER
	G BASIC BEDRK	G VALLEY SLOPE		G FOREN	G STREAM
	G CLIFF	G TABLELAND		G LICHEN	G MARSH
	G OPEN WATER	G ROLL UPLAND		G BRYOPHYTE	G SWAMP
	G SHALLOW WATER	G TALLS		G DECIDUOUS	G PEN
	G SUPERFICIAL DEB.	G CREVICE / DAVE		G CONIFEROUS	G BOG
	G BEDROCK	G ALVAR			G BURNED
		G ROCKLAND	G OPEN		G MEADOW
		G BEACH / BAR	G SAND		G PRAIRIE
		G BLUFF	G SAND		G SAVANNAH
					G WOODLAND
					G FOREST
					G PLANTATION

STAND DESCRIPTION		SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)	
LAYER	HT	CVR	
1 CANOPY	2	4	White cedar >> Sugar Maple
2 SUB-CANOPY	3	0	
3 UNDERSTORY	45	0	
4 GRD. LAYER	69	0	

HT CODES: 1 = 25 m 2 = 10 m 3 = 20 m 4 = 10 m 5 = 10 m 6 = 10 m 7 = 10 m 8 = 10 m 9 = 10 m 10 = 10 m 11 = 10 m 12 = 10 m 13 = 10 m 14 = 10 m 15 = 10 m 16 = 10 m 17 = 10 m 18 = 10 m 19 = 10 m 20 = 10 m 21 = 10 m 22 = 10 m 23 = 10 m 24 = 10 m 25 = 10 m 26 = 10 m 27 = 10 m 28 = 10 m 29 = 10 m 30 = 10 m 31 = 10 m 32 = 10 m 33 = 10 m 34 = 10 m 35 = 10 m 36 = 10 m 37 = 10 m 38 = 10 m 39 = 10 m 40 = 10 m 41 = 10 m 42 = 10 m 43 = 10 m 44 = 10 m 45 = 10 m 46 = 10 m 47 = 10 m 48 = 10 m 49 = 10 m 50 = 10 m

CVR CODES: 1 = 0% 2 = 1-10% 3 = 11-20% 4 = 21-30% 5 = 31-40% 6 = 41-50% 7 = 51-60% 8 = 61-70% 9 = 71-80% 10 = 81-90% 11 = 91-100%

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	N	N	N	N
DEADFALL / LOGS:	0	0	0	0
ABUNDANCE CODES:	N = NONE	R = RARE	O = OCCASIONAL	A = ABUNDANT
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE
				OLD GROWTH

SOIL ANALYSIS:

TEXTURE: DEPTH TO MOTTLES / GLEY g =

MOISTURE: D DEPTH OF ORGANICS: G =

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:

COMMUNITY SERIES:

ECOSITE:

VEGETATION TYPE:

INCLUSION: 100 - Fresh Oak - Hardwood

COMPLEX: 100 - Loblolly Shortleaf

Notes: 100 - Fresh Oak - Hardwood

ELC	SITE	
	POLYGON	
STAND CHARACTERISTICS	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES:

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Sugar Maple	1	1				2	
White cedar	19	14				33	
TOTAL	20	15				35	100
BASAL AREA (BA)	40	13				53	
DEAD	0	1				1	

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes: 100 - Fresh Oak - Hardwood

ELC PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYORS:

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL.
	1	2	3	4	

SPECIES CODE	LAYER				COL.
	1	2	3	A	

A blank sheet of graph paper featuring a uniform grid of squares. The grid consists of 10 columns and 20 rows, providing a structured space for drawing or writing.[illegible]The image contains two identical, empty 10x10 grids. Each grid is composed of 10 columns and 10 rows of squares, defined by thin black lines. The grids are positioned one above the other, with a small gap between them. They are intended for graphing the functions of the first two problems.

ELC PLANT SPECIES LIST	SITE:
	POLYCOND:
	DATE:
	SURVEYOR(S):

ATTENDANCE CODES: F = FAIRE O = OCCASIONAL A = ABSENT D = DOMINANT									
SPECIES CODE		LAYER				COL.			
1	2	3	4						
Sherlock	O								
B. H. H.									

SPECIES CODE		LAYER				COL.
1	2	3	4			
Relax more				A	O	
Hatch Rob.					A	

[illegible]

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>LOY.137</u>	POLYGON: <u>6</u>
	SURVEYORS: <u>Dec 1996</u>	DATE: <u>Jan 23</u>
	UTM: <u></u>	UTM: <u></u>

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G MENTLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN G ACIDIC BEDROCK G BASIC BEDROCK G CARB. BEDROCK	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL UPLAND G CLIFF G TALLS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANTON G SUBMERGED G FLOATING L.V. G GRASSLAND G FORB G LICHEN G BRYOPHYTE G DECEIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BARNEN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE			COVER		
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (UP TO 4 sp) (= MACH GREATER THAN: > GREATER THAN: = ABOUT EQUAL TO)
1 CANOPY	2	4	Green Ash > Bittern Hickey
2 SUB-CANOPY	3	3	Antenn Hickey > Buckhorn
3 UNDERSTOREY	4	3	Buckhorn > Elms > Buck Oak
4 GRD. LAYER	17	4	Vic. Ceceps > Green Canada > Ribes

HT CODES: 1 = 25 m 2 = 10-25 m 3 = 25-40 m 4 = 40-45 m 5 = 45-50 m 6 = 50-55 m 7 = 55-60 m 8 = 60-65 m 9 = 65-70 m 10 = 70-75 m 11 = 75-80 m 12 = 80-85 m 13 = 85-90 m 14 = 90-95 m 15 = 95-100 m 16 = 100-105 m 17 = 105-110 m 18 = 110-115 m 19 = 115-120 m 20 = 120-125 m 21 = 125-130 m 22 = 130-135 m 23 = 135-140 m 24 = 140-145 m 25 = 145-150 m 26 = 150-155 m 27 = 155-160 m 28 = 160-165 m 29 = 165-170 m 30 = 170-175 m 31 = 175-180 m 32 = 180-185 m 33 = 185-190 m 34 = 190-195 m 35 = 195-200 m 36 = 200-205 m 37 = 205-210 m 38 = 210-215 m 39 = 215-220 m 40 = 220-225 m 41 = 225-230 m 42 = 230-235 m 43 = 235-240 m 44 = 240-245 m 45 = 245-250 m 46 = 250-255 m 47 = 255-260 m 48 = 260-265 m 49 = 265-270 m 50 = 270-275 m 51 = 275-280 m 52 = 280-285 m 53 = 285-290 m 54 = 290-295 m 55 = 295-300 m 56 = 300-305 m 57 = 305-310 m 58 = 310-315 m 59 = 315-320 m 60 = 320-325 m 61 = 325-330 m 62 = 330-335 m 63 = 335-340 m 64 = 340-345 m 65 = 345-350 m 66 = 350-355 m 67 = 355-360 m 68 = 360-365 m 69 = 365-370 m 70 = 370-375 m 71 = 375-380 m 72 = 380-385 m 73 = 385-390 m 74 = 390-395 m 75 = 395-400 m 76 = 400-405 m 77 = 405-410 m 78 = 410-415 m 79 = 415-420 m 80 = 420-425 m 81 = 425-430 m 82 = 430-435 m 83 = 435-440 m 84 = 440-445 m 85 = 445-450 m 86 = 450-455 m 87 = 455-460 m 88 = 460-465 m 89 = 465-470 m 90 = 470-475 m 91 = 475-480 m 92 = 480-485 m 93 = 485-490 m 94 = 490-495 m 95 = 495-500 m 96 = 500-505 m 97 = 505-510 m 98 = 510-515 m 99 = 515-520 m 100 = 520-525 m 101 = 525-530 m 102 = 530-535 m 103 = 535-540 m 104 = 540-545 m 105 = 545-550 m 106 = 550-555 m 107 = 555-560 m 108 = 560-565 m 109 = 565-570 m 110 = 570-575 m 111 = 575-580 m 112 = 580-585 m 113 = 585-590 m 114 = 590-595 m 115 = 595-600 m 116 = 600-605 m 117 = 605-610 m 118 = 610-615 m 119 = 615-620 m 120 = 620-625 m 121 = 625-630 m 122 = 630-635 m 123 = 635-640 m 124 = 640-645 m 125 = 645-650 m 126 = 650-655 m 127 = 655-660 m 128 = 660-665 m 129 = 665-670 m 130 = 670-675 m 131 = 675-680 m 132 = 680-685 m 133 = 685-690 m 134 = 690-695 m 135 = 695-700 m 136 = 700-705 m 137 = 705-710 m 138 = 710-715 m 139 = 715-720 m 140 = 720-725 m 141 = 725-730 m 142 = 730-735 m 143 = 735-740 m 144 = 740-745 m 145 = 745-750 m 146 = 750-755 m 147 = 755-760 m 148 = 760-765 m 149 = 765-770 m 150 = 770-775 m 151 = 775-780 m 152 = 780-785 m 153 = 785-790 m 154 = 790-795 m 155 = 795-800 m 156 = 800-805 m 157 = 805-810 m 158 = 810-815 m 159 = 815-820 m 160 = 820-825 m 161 = 825-830 m 162 = 830-835 m 163 = 835-840 m 164 = 840-845 m 165 = 845-850 m 166 = 850-855 m 167 = 855-860 m 168 = 860-865 m 169 = 865-870 m 170 = 870-875 m 171 = 875-880 m 172 = 880-885 m 173 = 885-890 m 174 = 890-895 m 175 = 895-900 m 176 = 900-905 m 177 = 905-910 m 178 = 910-915 m 179 = 915-920 m 180 = 920-925 m 181 = 925-930 m 182 = 930-935 m 183 = 935-940 m 184 = 940-945 m 185 = 945-950 m 186 = 950-955 m 187 = 955-960 m 188 = 960-965 m 189 = 965-970 m 190 = 970-975 m 191 = 975-980 m 192 = 980-985 m 193 = 985-990 m 194 = 990-995 m 195 = 995-1000 m 196 = 1000-1005 m 197 = 1005-1010 m 198 = 1010-1015 m 199 = 1015-1020 m 200 = 1020-1025 m 201 = 1025-1030 m 202 = 1030-1035 m 203 = 1035-1040 m 204 = 1040-1045 m 205 = 1045-1050 m 206 = 1050-1055 m 207 = 1055-1060 m 208 = 1060-1065 m 209 = 1065-1070 m 210 = 1070-1075 m 211 = 1075-1080 m 212 = 1080-1085 m 213 = 1085-1090 m 214 = 1090-1095 m 215 = 1095-1100 m 216 = 1100-1105 m 217 = 1105-1110 m 218 = 1110-1115 m 219 = 1115-1120 m 220 = 1120-1125 m 221 = 1125-1130 m 222 = 1130-1135 m 223 = 1135-1140 m 224 = 1140-1145 m 225 = 1145-1150 m 226 = 1150-1155 m 227 = 1155-1160 m 228 = 1160-1165 m 229 = 1165-1170 m 230 = 1170-1175 m 231 = 1175-1180 m 232 = 1180-1185 m 233 = 1185-1190 m 234 = 1190-1195 m 235 = 1195-1200 m 236 = 1200-1205 m 237 = 1205-1210 m 238 = 1210-1215 m 239 = 1215-1220 m 240 = 1220-1225 m 241 = 1225-1230 m 242 = 1230-1235 m 243 = 1235-1240 m 244 = 1240-1245 m 245 = 1245-1250 m 246 = 1250-1255 m 247 = 1255-1260 m 248 = 1260-1265 m 249 = 1265-1270 m 250 = 1270-1275 m 251 = 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ELC		SITE:	
POLYGON:		DATE:	
SURVEYOR(S):		UTM	

P/A	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1								342245.3	4911559
2									
3									
4									
5									

SOIL: 1 2 3 4 5

TEXTURE: 100% CLAY

28cm

A	TEXTURE	CLAY							
B	COURSE FRAGMENTS	CLAY							
C	TEXTURE	CLAY							
	COURSE FRAGMENTS	CLAY							
	EFFECTIVE TEXTURE	CLAY							
	SURFACE STONINESS	CLAY							
	SURFACE ROCKINESS	CLAY							

DEPTH TO / OF	MOISTURE	999							
	CLAY	999							
	BEDROCK	28							
	WATER TABLE	999							
	CARBONATES	999							
	DEPTH OF ORGANICS	3-4cm							
	PORE SIZE DISC M								
	PORE SIZE DISC #2								
	MOISTURE REGIME	1							
	SOIL SURVEY MAP								
	LEGEND CLASS								

ELC		SITE:	
POLYGON:		DATE:	
SURVEYOR(S):		UTM	

P/A	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1								342245.3	4911559
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SOIL: 1 2 3 4 5

TEXTURE: 100% CLAY

28cm

A	TEXTURE	CLAY							
B	COURSE FRAGMENTS	CLAY							
C	TEXTURE	CLAY							
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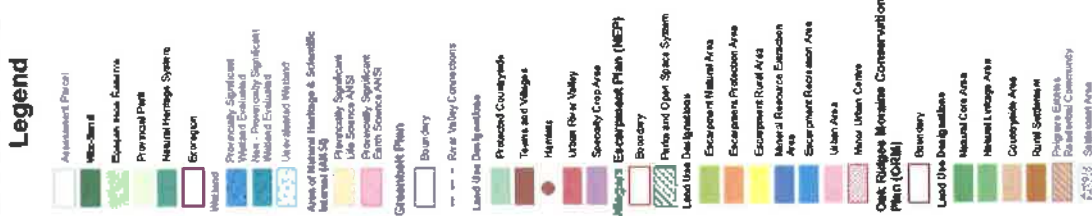
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	PORE SIZE DISC M								
	PORE SIZE DISC #2								
	MOISTURE REGIME	1							
	SOIL SURVEY MAP								
	LEGEND CLASS								

ELC PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

LAYER3					LAYER						
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT											
SPECIES CODE	LAYER				COL	SPECIES CODE	LAYER				COL
	1	2	3	4			1	2	3	4	
Redstart	D					Olive d. fly					
Black A. n.	O					W. flycatcher					A

1	2	3	4	5
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Projection: Web Mercator

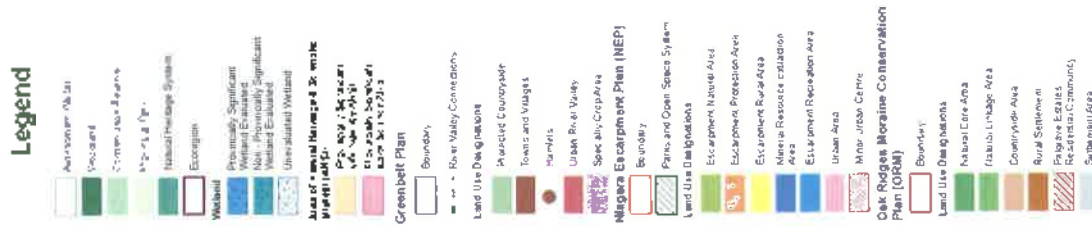


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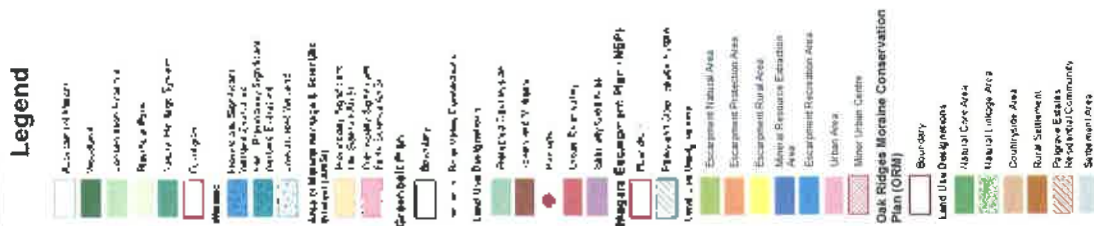
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Legend

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ELC		SITE: NAP 13	
SOILS ONTARIO		POLYGON: 1	
		DATE: June 20	
		SURVEYOR(S): DCC QMF	

Slope										UTM	
P/A	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING		
1											
2											
3											
4											
5											

SOIL		1	2	3	4	5
TEXTURE & HORIZON						

A	TEXTURE					
	COURSE FRAGMENTS					
B	TEXTURE					
	COURSE FRAGMENTS					
C	TEXTURE					
	COURSE FRAGMENTS					
	EFFECTIVE TEXTURE					
	SURFACE STONINESS					
	SURFACE ROCKINESS					

DEPTH TO / OF						
	MOTTLES					
	GLEYS					
	BEDROCK					
	WATER TABLE					
	CARBONATES					
	DEPTH OF ORGANICS					
	PORE SIZE DISC #1					
	PORE SIZE DISC #2					
	MOISTURE REGIME					

SOIL SURVEY MAP						
LEGEND CLASS						

ELC		SITE:	
PLANT		POLYGON:	
SPECIES		DATE:	
LIST		SURVEYOR(S):	

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
 ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL.	SPECIES CODE	LAYER				COL.
	1	2	3	4			1	2	3	4	
Can. vetch						Shrubby Willow					
Goldenrod spp						Spotted Geranium					
Willow sp.						Bearberry					
Burdock sp.						Slender Yellow					
Ill. buckwheat						Willow					
Can. Peppercorn						Willow sp.					
Timothy Grass						Red Clover					
Artes. clover											
Can. clover											
Red Clover											
Black-thorn											
Oxeye Daisy											
Thymus											
Loose fern											
White clover											
Field Strawberry											
Red Clover											
Red Clover											
White clover											
Yellow Sweet Clover											
Galium sp.											
Harewood											
Hardwood											

Willow
 Harewood
 Hardwood



Legend



0 0.3 km

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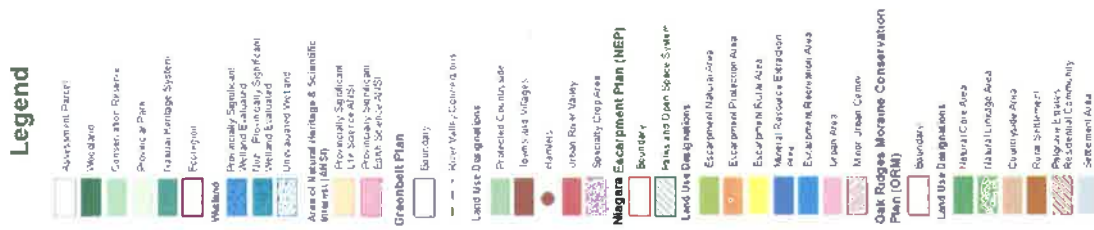


Projection: Web Mercator

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0.2 km

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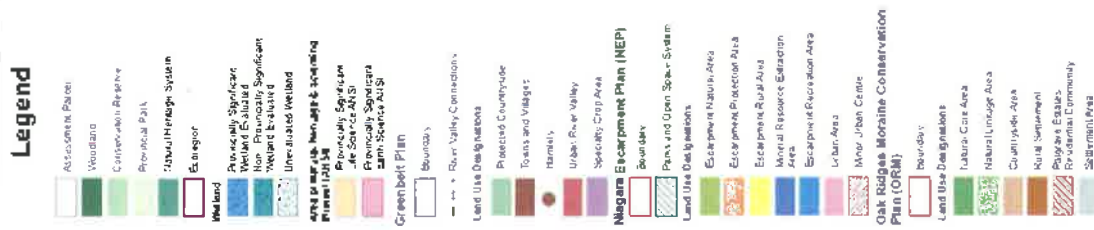


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0 3.1 km

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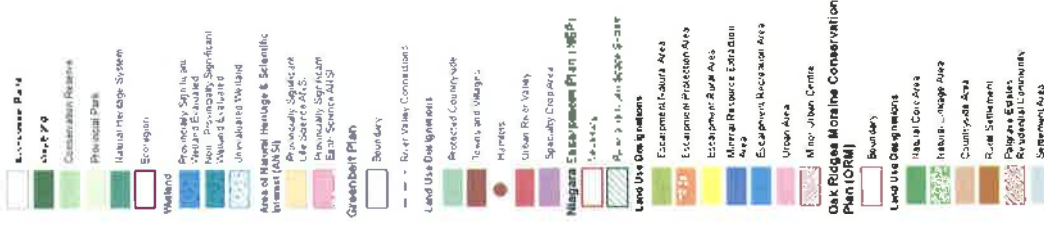
Ministry of Natural Resources and Forestry
Make-a-Map: Natural Heritage Areas

PIN450660107 - NAP120_4

Notes:
Enter map notes



Legend



0 0.1 km

Projection: Web Mercator

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ELC PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT											
SPECIES CODE	LAYER				COL.	SPECIES CODE	LAYER				COL.
	1	2	3	4			1	2	3	4	
<i>Par sp</i>			AA								
<i>Emerson</i>			O								

[illegible]

Category	Count
Calculus	0
Engineering	0
Physics	0
Chemistry	0
Biology	0
Mathematics	0
Computer Science	0
Business	0
Law	0
Medicine	0
Education	0
Psychology	0
Social Sciences	0
Humanities	0
Arts	0
Health Sciences	0
Environmental Studies	0
Interdisciplinary	0
Other	0

[illegible]

[illegible]

E. gitter stark

Project Name: Language list

End Time	11:00
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Date: 12/05/16

Weather Conditions: 9-22°C, Sunny.

the raw file mapped / size history

100

Plot Number	Wetland Plant	#avity trees
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plant cover (pin) zone:

Comments

700

HSA, aldose reductase, HSP

1.6.33

42

2019-2020

pic 100

9. C

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01/01/2025

12.10

2.4

Q.14

Year	Value
2012	1.2
2013	1.5
2014	1.8
2015	2.1
2016	2.4
2017	2.7
2018	3.0
2019	3.3
2020	3.6
2021	3.9
2022	4.2
2023	4.5
2024	4.8
2025	5.1
2026	5.4
2027	5.7
2028	6.0
2029	6.3
2030	6.6
2031	6.9
2032	7.2
2033	7.5
2034	7.8
2035	8.1
2036	8.4
2037	8.7
2038	9.0
2039	9.3
2040	9.6
2041	9.9
2042	10.2
2043	10.5
2044	10.8
2045	11.1
2046	11.4
2047	11.7
2048	12.0
2049	12.3
2050	12.6
2051	12.9
2052	13.2
2053	13.5
2054	13.8
2055	14.1
2056	14.4
2057	14.7
2058	15.0
2059	15.3
2060	15.6
2061	15.9
2062	16.2
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2064	16.8
2065	17.1
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2067	17.7
2068	18.0
2069	18.3
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2082	22.2
2083	22.5
2084	22.8
2085	23.1
2086	23.4
2087	23.7
2088	24.0
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2092	25.2
2093	25.5
2094	25.8
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2099	27.3
2100	27.6

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10/27

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2011

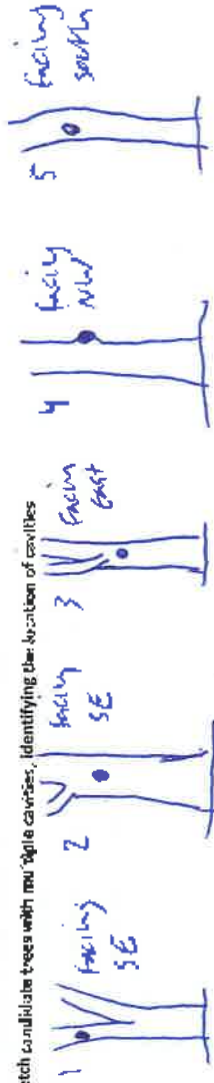
Preparation for EOS Bat Monitoring: Identification of High Quality Potential Roost Trees

Identify the best potential roost trees in the applicable woodland/polygon: <10ha in size = up to 10 >10ha in size = 1 additional for each ha up to 30

Page 2 of 2

Tree #	Species	# of Cavities	DBH (cm)	Cavity height(s)	Tree height	UTM	Notes	Photo Number(s)
1	Sugar Maple	1	~40cm	7-8m	10-12m	WP620	cadem 3km S	68/69
2	Sugar Maple	1	~60cm	8m	15m	WP621		143/144
3	Sugar Maple	1	~50cm	6m	15m	WP622		146/147
4	Sugar Maple	1	~60cm	5m	15m	WP623		148/149
5	Sugar Maple	1	~40cm	7-8m	12m	WP624		156/157
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Sketch candidate trees with multiple cavities, identifying the location of cavities



Preparation for EOS Bat Monitoring: Identification of High Quality Potential Roost Trees										Page 2 of 2
Identify the best potential roost trees in the applicable woodland/polygon: <10ha in size = up to 10 >10ha in size = 1 additional for each ha up to 30										
Tree #	Species	# of Cavities	DBH (cm)	Cavity height(s)	Tree height	UTM	Notes	Photo Number(s)		
1	Sycamore	1	94	7m	15m	WP 618		56/57		
2	"	1	59	9m	15m	WP 619		58/59		
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Sketch candidate trees with multiple cavities, identifying the location of cavities



Candidate Bat Maternity Roost Data Form

NAPO38

Use this form in FOD, FOM

Page 1 of 2

Project Name:

Project #: 163674

Polygon Size:

Community Age: Young Mid-Age/Mature/Old Growth

Start Time: 12:00

End Time: 13:30

Date: May 11, 2016

Surveyor(s): JWB

Polygon ID:

Weather Conditions:

Plot Centre: Pre-mapped / Site survey / Grid.

cavity trees \geq
25cm dbh

Plot Centre UTM (Zone:)

Comments

Plot 1

c

s

Plot 2

Plot 3

Plot 4

Plot 5

Plot 6

Plot 7

Plot 8

Plot 9

Plot 10

Plot 11

Plot 12

Plot 13

Plot 14

Plot 15

Plot 16

Plot 17

Plot 18

Plot 19

Plot 20

Plot 21

Plot 22

Plot 23

Plot 24

Plot 25

Plot 26

Plot 27

Plot 28

Plot 29

Plot 30

Plot 31

Plot 32

Plot 33

Plot 34

Plot 35

trees $>25\text{cm}$ dbh

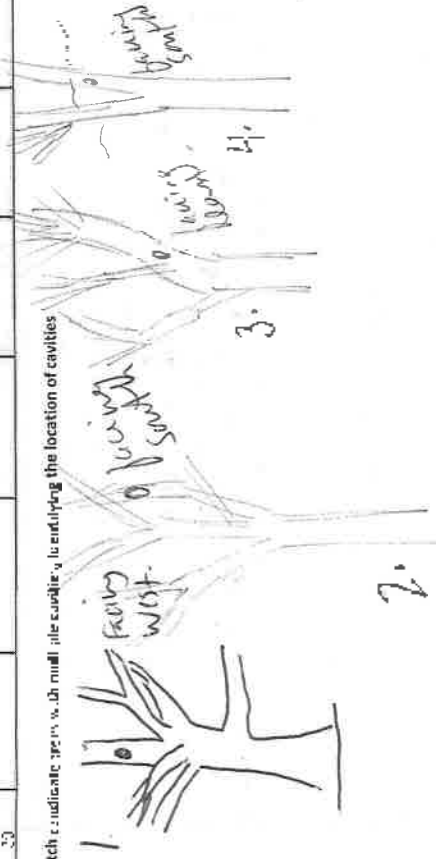
Common blue violet / round-leaved violet / needleleaf strawberry.

Total Snag Density = total # cavity trees / (# plots \times .05ha)Number of Plots: Sites $\leq 10\text{ha}$: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots)

Plots = 12.6m radius (= 0.05ha)

Preparation for FGS Bat Monitoring: Identification of High Quality Potential Roost Trees										Page 2 of 2
Identify the best potential roost trees in the applicable woodland/polygon:										
Tree #	Species	# of Cavities	DBH (cm)	Cavity height(s)	Tree height	>10ha in size = 1 additional tree each	Notes	Photo Number(s)		
1	Ostrya	1	26	2.5m	8m	WP 614		44/45		
2	Sweetgum	1	33	7m	10-12m	WP 615		46/47		
3	White Oak	1	33	7m	10m	WP 616		48/49		
4	Ostrya	1	27	6m	12m	WP 617		50/51		
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Sketch & indicate species with small pile cavity, identifying the location of cavities



Candidate Bat Maternity Roost Data Form

PIN

- T-LINE PRIMARY

Use this form in FOD, FOM

Project Name:

Project #: Loydcast

Polygon Size:

Community Age: Young/Mid-Age/Mature/Old Growth

Page 1 of 2

Start Time:

4:00 pm

End Time

DATE: APRIL 27/16Surveyor(s): JFH + KM

Polygon ID

Weather Conditions: 12°C, Sunny

Plot Centre: Pre-mapped / Site survey

Plot Number	# cavity trees > 1.5m dbh	Plot Number (10m)	Comments
Plot 1	1	WP14	White Birch, white cedar, dense, covered
Plot 2	0	WP20	918 - showy, white Pine, white cedar, open
Plot 3	0	WP40	Sugar maple, leaved
Plot 4	2	WP12	Thick 15 white cedar, shrub red cedar
Plot 5	0	WP17	White cedar, shrub red cedar, canopy early top of slope, 3 trees > 25cm
Plot 6	0	WP30	White cedar, lots of mushrooms
Plot 7	0	WP23	19 old wh. cedars, area cleared by 16, Oak, 924-926
Plot 8	0	WP44	old cedar, young, pink Ash
Plot 9	0	WP31	Wh. Ash, lots of low branches, many dead.
Plot 10	0	WP11	Forest - young white cedar
Plot 11	0	WP20	Young wh. cedar - 2 wh cedar > 25 dbh
Plot 12	0	WP21	White cedar - low branches, low stream
Plot 13	6	WP45	Wh. cedar, Ash, low bark falling off
Plot 14	0	WP10	Ash, maple
Plot 15	0	WP14	Maple
Plot 16	0	WP5	Maple, multi-stem
Plot 17	0	WP16	Maple, deep channel is wetland, lots of standing water
Plot 18	0	WP29	Maple, Ash
Plot 19	0	WP2	"
Plot 20	0	WP8	Ash, Maple
Plot 21	0	WP7	
Plot 22	0	WP3	
Plot 23	0	WP1	2 older tree above 25 dbh but no cavities 366-369
Plot 24			
Plot 25			
Plot 26			
Plot 27			
Plot 28			
Plot 29			
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Plot 31			
Plot 32			
Plot 33			
Plot 34			
Plot 35			

Total Snag Density = total # cavity trees / (# plots x .05Ha)

Number of Plots: Sites ≤10ha: 10 plots (minimum); each extra ha: 1 plot (up to max 11 plots)

Plots = 12.6m radius (= 0.05Ha)

Preparation for EOS Bat Monitoring: Identification of High Quality Potential Roost Trees										Page 2 of 2
Identify the best potential roost trees in the applicable woodland/polygon: <10ha in size = up to 10										>10ha in size = 1 additional for each ha up to 30
Tree #	Species	# of Cavities	DBH (cm)	Cavity height(s)	Tree height	UTM	Notes	Photo Number(s)		
1	W. Bl. Oak	1	25.4	8m	~10m	WP139-KM	-Fungus	318-317		
2	maple	1	7.25	5	~12m	WP155 (Plot 1123)		361-362		
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Sketch candidate trees with multiple cavities, identifying the location of cavities

WP1 moved WP19 - water too deep to cross.

WP2

h - 1m flooded area

Stems don't meet size criteria in
- Not sure whether cavity

April 2011
27/28.2016

Candidate Bat Maternity Roost Data Form				PIN - T-Line Parkway		Page 1 of 2	
Use this form for FOD, FOM		Project #:		Polygon Size:		Community Age: Young Adult age / Mature / JM (growth)	
Project Name: Loyola St		End Time: 10:00 (25/04/16)		Date: 27/04/16		Surveyor(s): WH/KM	
Start Time: 06:00		Weather Conditions: Sunny, 12°C		Plot Centres: Pre-mapped / Site survey			
Polygon ID	Plot Number	# cavity trees > 25cm dbh	Plot Centre UTM (Easting)	Plot Centre UTM (Northing)	Comments		
Plot 1	WP33	1			Sugar maple FOD, Sugar maple, Asterix, heart lilac		
Plot 2	WP26	0			no trees > 25cm DBH, Asterix, Sugar maple, ash.		
Plot 3	WP34	0					
Plot 4	WP27	0			Thyrsace grove, none > 25cm. pie 53		
Plot 5	WP24	0			Red cedar / probably ash, none > 25cm pie 54		
Plot 6	WP43	0			mainly cedar, probably ash, few maples pie 55		
Plot 7	WP16	0			cedar grove, & trail pie 57		
Plot 8	WP43	0			probably ash, few small cedar, none > 25cm		
Plot 9	WP29	0			young Quercus, Asterix, cherry		
Plot 10	WP30	0			large holly, seedlings		
Plot 11	WP19 - invad	0			was in plot, Thyrsace grove		
Plot 12	WP41	0			cedar grove, none > 25cm - probably ash abundant.		
Plot 13	WP37	0			cedar grove w/ significant proportion none > 25cm		
Plot 14	WP36	0			cedar grove		
Plot 15	WP18	0			cedar grove - none > 25cm.		
Plot 16	WP22	0			Cedar / Asterix grove none > 25cm		
Plot 17	WP39	0			cedar grove, none > 25cm		
Plot 18	WP33	0			3 Sugar maple, cedar - no cavity trees		
Plot 19	WP13	0			Cedar wood - Thyrsace - / good proportion none > 25cm		
Plot 20	WP15	0			cedar grove, - none > 25cm		
Plot 21	WP25	0			some large cedar, - ash, probably ash, cedar.		
Plot 22							
Plot 23							
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Plot 34							
Plot 35							

Total Snag Density = total # cavity trees / (# plots x .05ha)

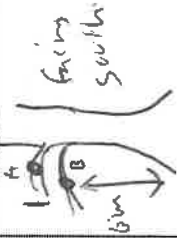
Number of Plots: Sites < 10ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots)

Plots = 12.6m radius (= 0.15ha)

11/11/17

Preparation for EOS Bat Monitoring: Identification of High Quality Potential Roost Trees										Page 2 of 2	
Identify the best potential roost trees in the accessible woodland/polygons										Photo Number(s)	
Tree #	Species	# of Cavities	Diameter (cm)	Cavity height(s)	Tree height	UTM	Additional for each tree up to 30				
1	Sycamore	2	79 cm	6-7	23m	645 549	on limbs,			46, 47.	
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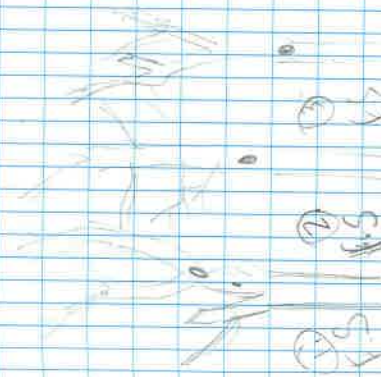
Sketch candidate trees with multiple cavities, identifying the location of cavities



Project Name	Level	Pro. #	Tree	Sp	Can.	DBH	C.H.	T.H.	Res	UTM
Community App.	Mid-Alt		1	Rat	2	39	7	15	42	174
Start: 8:45am	End: 11:15		2	Sp Maple	1	32	7	14	3.4	175
Polygon 10	Plot Centre. Pre-Mapped		3	W. Ash	1	33	6	15	5.6	176

Plot No	No. canopy 25.0%	Plot Centre	Comments	Notes
1	φ	2	FOD	Li
2	φ	3	FOD	Li
3	φ	13	FOD	Li
4	φ	5	FOD	Li
5	φ	12	FOD	Li
6	φ	6	FOD	Li
7	.	22	FOD	Li
8	φ	7	FOD	Li
9	φ	4	FOD	Li
10	φ	8	FOD	Li
11	..	19	FOD	Li
12	φ	9	FOD	Li
13	φ	11	FOD	Li
14				

Thickens and deads - likely by
 Sandhills - PC
 Burgevil



NAP013 - uneval. wetland

SECRET
:B69074



0.2 km

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Projection: Web Mercator



Legend

- [illegible]



Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland Evaluation
- World Community Significant Wetland Evaluation
- Unregulated Wetland
- Area of Natural Heritage & Scientific Interest (ANSI)
- Provincially Significant Wetland
- Provincially Significant Wetland
- Provincially Significant Wetland
- Greenbelt Plan
- Boundary
- Raw Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Crop Area
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- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Out-Ridge Micro-Climate
- Phon 1000
- Boundary
- Land Use Designations
- Relief Topography
- Neighbourhood Map
- County Map
- Provincial Park
- Provincially Significant Wetland
- Provincially Significant Wetland
- Provincially Significant Wetland

0 0.2 km

Projection Web Mercator

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0.2 km

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Legend

- [illegible]

Niagara Escarpment Plan | WEPI

SITE: NAP 013		POLYGON: 52/143	
SURVEYOR(S): JWH		DATE: 16/06/10	
JUNE		TIME: 10:00	
JUNE		TIME: 12:00	

POLYGON DESCRIPTION

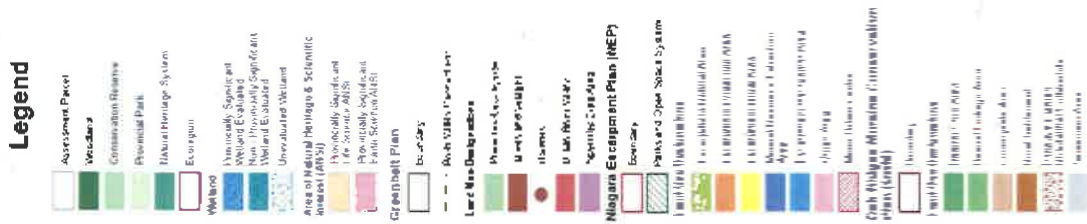
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SITE					
<input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOA WATER <input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP					

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 spl)
1 CANOPY	1	3	<i>Acacia</i>
2 SUB-CANOPY	2	3	<i>Acacia</i>
3 UNDERSTOREY	3	2	<i>Acacia</i>
4 GROUND LAYER	5-4	4	<i>Acacia</i>

HT CODES: 1=1-1.5m, 2=1.5-2m, 3=2-3m, 4=3-4m, 5=4-5m, 6=5-6m, 7=6-7m, 8=7-8m, 9=8-9m, 10=9-10m, 11=10-12m, 12=12-15m, 13=15-20m, 14=20-25m, 15=25-30m, 16=30-35m, 17=35-40m, 18=40-45m, 19=45-50m, 20=50-55m, 21=55-60m, 22=60-65m, 23=65-70m, 24=70-75m, 25=75-80m, 26=80-85m, 27=85-90m, 28=90-95m, 29=95-100m, 30=100-105m, 31=105-110m, 32=110-115m, 33=115-120m, 34=120-125m, 35=125-130m, 36=130-135m, 37=135-140m, 38=140-145m, 39=145-150m, 40=150-155m, 41=155-160m, 42=160-165m, 43=165-170m, 44=170-175m, 45=175-180m, 46=180-185m, 47=185-190m, 48=190-195m, 49=195-200m, 50=200-205m, 51=205-210m, 52=210-215m, 53=215-220m, 54=220-225m, 55=225-230m, 56=230-235m, 57=235-240m, 58=240-245m, 59=245-250m, 60=250-255m, 61=255-260m, 62=260-265m, 63=265-270m, 64=270-275m, 65=275-280m, 66=280-285m, 67=285-290m, 68=290-295m, 69=295-300m, 70=300-305m, 71=305-310m, 72=310-315m, 73=315-320m, 74=320-325m, 75=325-330m, 76=330-335m, 77=335-340m, 78=340-345m, 79=345-350m, 80=350-355m, 81=355-360m, 82=360-365m, 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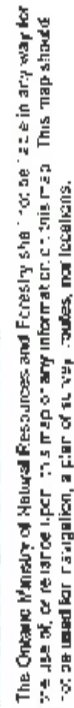
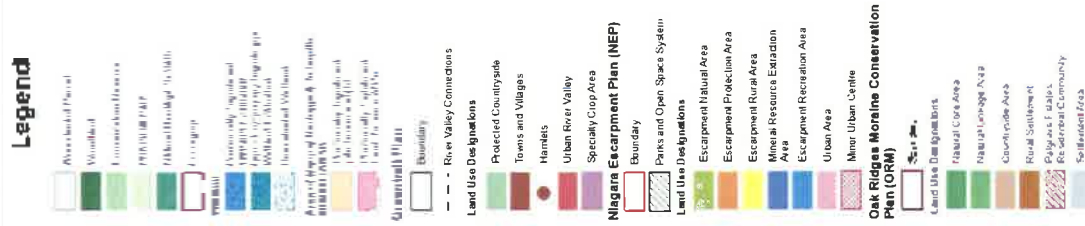
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NAP022

Notes:
Enlarge map notes



Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland Evaluated
- Non-Provincially Significant Wetland Evaluated
- Unevaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANSI)
- Provincially Significant Life Science AISI
- Provincially Significant Earth Science AISI
- Greenbelt Plan
- Boundary
- Flow Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
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- Escapement Protection Area
- Escapement Rural Area
- Mineral Resource Extraction Area
- Escapement Recreation Area
- Urban Area
- Major Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Heritage Area
- Countywide Area
- Road Settlement
- Provincially Significant Headwater Community
- Settlement Area

0 0.2 km

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ELC		SITE:	
SOILS ONTARIO		POLYGON:	
		DATE:	
		SURVEYOR(S):	

1	2	3	4	5	UTM
1	2	3	4	5	
2	3	4	5		
3	4	5			
4	5				
5					

1	2	3	4	5
1	2	3	4	5
2	3	4	5	
3	4	5		
4	5			
5				

1	2	3	4	5
1	2	3	4	5
2	3	4	5	
3	4	5		
4	5			
5				

1	2	3	4	5
1	2	3	4	5
2	3	4	5	
3	4	5		
4	5			
5				

1	2	3	4	5
1	2	3	4	5
2	3	4	5	
3	4	5		
4	5			
5				

ELC		SITE:	
PLANT SPECIES LIST		POLYGON:	
		DATE:	
		SURVEYOR(S):	

1	2	3	4	5
1	2	3	4	5
2	3	4	5	
3	4	5		
4	5			
5				

1	2	3	4	5
1	2	3	4	5
2	3	4	5	
3	4	5		
4	5			
5				

1	2	3	4	5
1	2	3	4	5
2	3	4	5	
3	4	5		
4	5			
5				

1	2	3	4	5
1	2	3	4	5
2	3	4	5	
3	4	5		
4	5			
5				

1	2	3	4	5
1	2	3	4	5
2	3	4	5	
3	4	5		
4	5			
5				

52

51

mic 242

we seed heads

41

mic 241

SITE		POLYGON		DATE		SURVEYOR(S)		START TIME		END TIME	
ELC		WILDLIFE		TEMP (°C): 30		CLOUD (10th): 20		WIND: 23		PRECIPITATION: none	
MANAGEMENT / DISTURBANCE		DISTURBANCE / EXTENT		1		2		3		SCORE†	
TIME SINCE LOGGING		15+ YRS		5-15 YRS		8-15 YRS		15+ YRS		15+ YRS	
INTENSITY OF LOGGING		NONE		NONE		NONE		NONE		NONE	
EXTENT OF LOGGING		NONE		NONE		NONE		NONE		NONE	
SUGGESTED OPERATIONS		NONE		NONE		NONE		NONE		NONE	
EXTENT OF OPERATIONS		NONE		NONE		NONE		NONE		NONE	
GAPS IN FOREST CANOPY		NONE		NONE		NONE		NONE		NONE	
EXTENT OF GAPS		NONE		NONE		NONE		NONE		NONE	
LIVESTOCK (GRAZING)		NONE		NONE		NONE		NONE		NONE	
EXTENT OF LIVESTOCK		NONE		NONE		NONE		NONE		NONE	
ALIEN SPECIES		NONE		NONE		NONE		NONE		NONE	
EXTENT OF ALIEN SPECIES		NONE		NONE		NONE		NONE		NONE	
PLANTING (PLANTATION)		NONE		NONE		NONE		NONE		NONE	
EXTENT OF PLANTING		NONE		NONE		NONE		NONE		NONE	
TRACKS AND TRAILS		NONE		NONE		NONE		NONE		NONE	
EXTENT OF TRACKS/TRAILS		NONE		NONE		NONE		NONE		NONE	
DUMPING (RUBBISH)		NONE		NONE		NONE		NONE		NONE	
EXTENT OF DUMPING		NONE		NONE		NONE		NONE		NONE	
EARTH DISPLACEMENT		NONE		NONE		NONE		NONE		NONE	
EXTENT OF DISPLACEMENT		NONE		NONE		NONE		NONE		NONE	
RECREATIONAL USE		NONE		NONE		NONE		NONE		NONE	
EXTENT OF RECR. USE		NONE		NONE		NONE		NONE		NONE	
NOISE		NONE		NONE		NONE		NONE		NONE	
EXTENT OF NOISE		NONE		NONE		NONE		NONE		NONE	
DISEASE/DEATH OF TREES		NONE		NONE		NONE		NONE		NONE	
EXTENT OF DISEASE/DEATH		NONE		NONE		NONE		NONE		NONE	
WIND THROW (BLOW DOWN)		NONE		NONE		NONE		NONE		NONE	
EXTENT OF WIND THROW		NONE		NONE		NONE		NONE		NONE	
BROWN (e.g. DEER)		NONE		NONE		NONE		NONE		NONE	
EXTENT OF BROWSE		NONE		NONE		NONE		NONE		NONE	
BEAVER ACTIVITY		NONE		NONE		NONE		NONE		NONE	
EXTENT OF BEAVER		NONE		NONE		NONE		NONE		NONE	
FLOODING (pools & puddling)		NONE		NONE		NONE		NONE		NONE	
EXTENT OF FLOODING		NONE		NONE		NONE		NONE		NONE	
FIRE		NONE		NONE		NONE		NONE		NONE	
EXTENT OF FIRE		NONE		NONE		NONE		NONE		NONE	
ICE DAMAGE		NONE		NONE		NONE		NONE		NONE	
EXTENT OF ICE DAMAGE		NONE		NONE		NONE		NONE		NONE	
OTHER		NONE		NONE		NONE		NONE		NONE	
EXTENT		NONE		NONE		NONE		NONE		NONE	

† INTENSITY x EXTENT = SCORE

ELC		SITE: NAD021/022		
WILDLIFE		POLYGON: S1-S3/M1		
		DATE: 17/06/16		
		SURVEYOR(S): JWH		
		START TIME: END TIME:		
TEMP (°C): 30	CLOUD (10th): 20	WIND: 2-3	PRECIPITATION: none	
CONDITIONS:				
POTENTIAL WILDLIFE HABITAT:				
	VERNAL POOLS	SNAGS		
	HIBERNACULA	FALLEN LOGS		
SPECIES LIST:				
TY	SP. CODE	EV	NOTES	#
				</



Ministry of Natural Resources and Forestry
Make-a-Map: Natural Heritage Areas

PIN4450660126/450660123 -
NAP118/NAP023

Notes:
Enter map roles



Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland Evaluated
- Non-Provincially Significant Wetland Evaluated
- Unclassified Wetland
- Area of Natural Heritage & Scientific Interest (ANSI)
- Provincially Significant Life Science ANSI
- Provincially Significant Earth Science ANSI
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Protected Area
- Escarpment Natural Area
- Escarpment Rural Area
- Mineral Resource Evaluation Area
- Escarpment Recreation Area
- Urban Area
- Metropolitan Core
- Oak Ridge Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Image Area
- Countryside Area
- Rural Settlement
- Palmer Estates
- Residential Community
- Settlement Area

0 0.7 km

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0 0.2 km

The Ontario Ministry of Natural Resources are "presby s.s." not the table n any way for the use of reliance upon, the map is any information or map. This map should not be used for navigation. A sign of survey, review, not locations.

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Projektion Wieb Mercator



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ELC	SITE: N4P038 - Layalst		POLYONE S/m	
	DATE: 17/06/16		TIME: 09:45	
COMMUNITY DESCRIPTION & CLASSIFICATION	SURVEYOR'S: Matthew Harris		TIME: 10:30	
	TIME: 10:30		GRADE:	

POLYGEN		DESCRIPTION		POLYGEN				
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY			
TEMPERATE CLIMATE	G ORGANIC	G LEACHING	G NATURAL	G PLANTATION	G LAKE			
	G MINERAL SOIL	G SOFT MUD	G CULTURAL	G SUBMERGED	G POND			
	G PARENT MIN	G RIVER		G FLOATING	G RIVER			
TROPICAL	G ACIDIC BEDROCK	G VALLEY FLOOR		G GRASS	G STREAM			
	G BASIC BEDROCK	G RIVER		G LICHEN	G MARSH			
	G CARB. BEDROCK	G ROLL UPLAND		G BRYOPHYTE	G SWAMP			
SITE		G RIVER		G DECIDUOUS	G BAY			
		G RIVER		G MIXED	G POND			
			COVER		G POND			
SPECIALIZED SYSTEMS	G OPEN WATER	G TIDAL	G CORPUS		G TIDAL			
	G SHALLOW WATER	G BEACH	G SHORE		G WOODLAND			
	G DEEP WATER	G BLUFF	G RIVER		G FOREST			

STAND DESCRIPTION:			SPECIES IN ORDER OF DECREASING DOMINANCE (1-1045):	
LAYER	HT	CVR	1 >> MUCH GREATER THAN, > GREATER THAN, = ABOUT EQUAL TO	
1 CANOPY				
2 SUB-CANOPY	3	2	Populus	
3 UNDERSTOREY	3	3	Salix sp.	
4 BRG LAYER	5	3	Carex sp. > smaller	

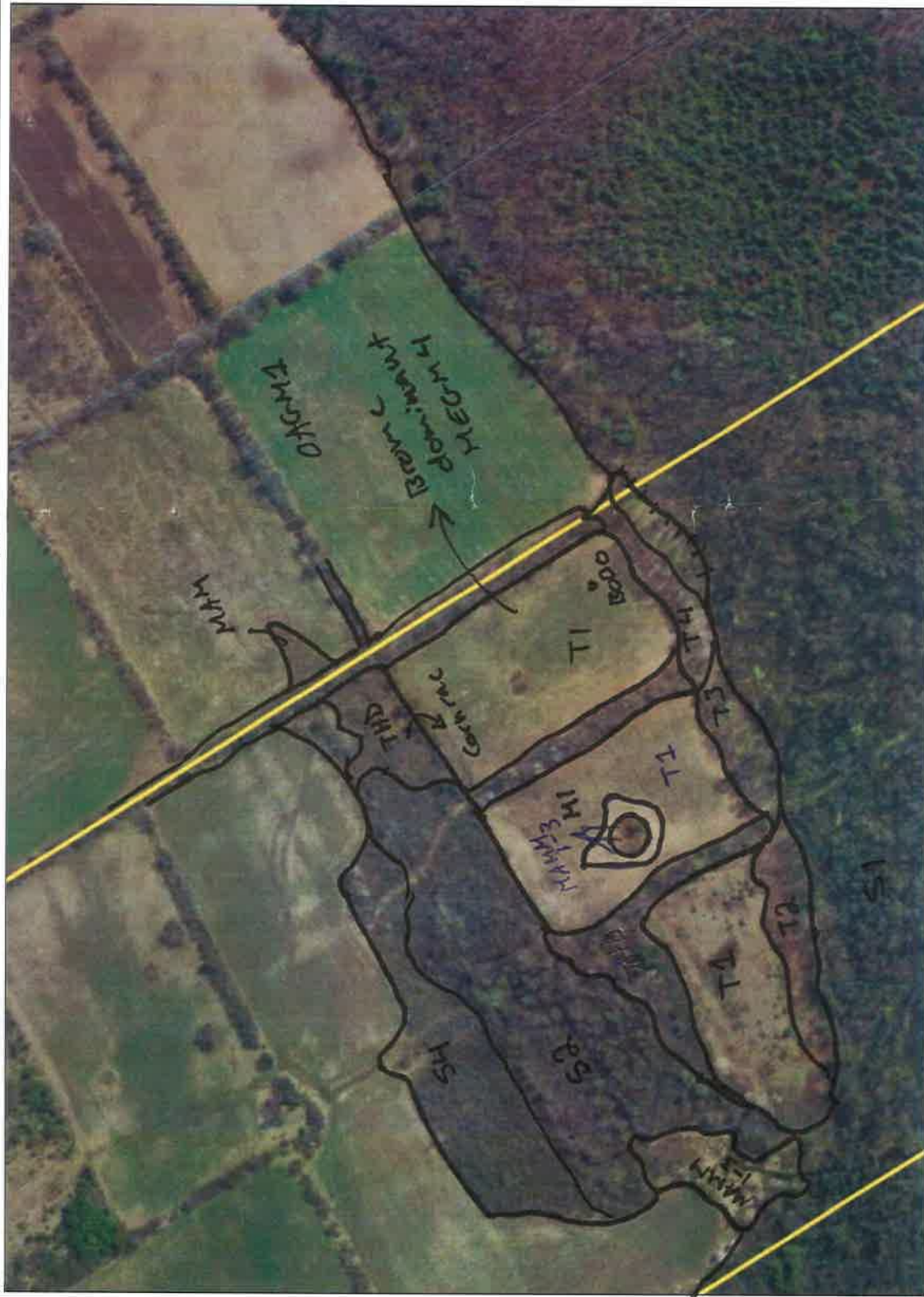
HT CODES: 1 = 2-4; 2 = 4-6; 3 = 6-10; 4 = 10-15; 5 = 15-20; 6 = 20-25; 7 = 25-30; 8 = 30-35; 9 = 35-40; 10 = 40-45; 11 = 45-50; 12 = 50-55; 13 = 55-60; 14 = 60-65; 15 = 65-70; 16 = 70-75; 17 = 75-80; 18 = 80-85; 19 = 85-90; 20 = 90-95; 21 = 95-100; 22 = 100-105; 23 = 105-110; 24 = 110-115; 25 = 115-120; 26 = 120-125; 27 = 125-130; 28 = 130-135; 29 = 135-140; 30 = 140-145; 31 = 145-150; 32 = 150-155; 33 = 155-160; 34 = 160-165; 35 = 165-170; 36 = 170-175; 37 = 175-180; 38 = 180-185; 39 = 185-190; 40 = 190-195; 41 = 195-200; 42 = 200-205; 43 = 205-210; 44 = 210-215; 45 = 215-220; 46 = 220-225; 47 = 225-230; 48 = 230-235; 49 = 235-240; 50 = 240-245; 51 = 245-250; 52 = 250-255; 53 = 255-260; 54 = 260-265; 55 = 265-270; 56 = 270-275; 57 = 275-280; 58 = 280-285; 59 = 285-290; 60 = 290-295; 61 = 295-300; 62 = 300-305; 63 = 305-310; 64 = 310-315; 65 = 315-320; 66 = 320-325; 67 = 325-330; 68 = 330-335; 69 = 335-340; 70 = 340-345; 71 = 345-350; 72 = 350-355; 73 = 355-360; 74 = 360-365; 75 = 365-370; 76 = 370-375; 77 = 375-380; 78 = 380-385; 79 = 385-390; 80 = 390-395; 81 = 395-400; 82 = 400-405; 83 = 405-410; 84 = 410-415; 85 = 415-420; 86 = 420-425; 87 = 425-430; 88 = 430-435; 89 = 435-440; 90 = 440-445; 91 = 445-450; 92 = 450-455; 93 = 455-460; 94 = 460-465; 95 = 465-470; 96 = 470-475; 97 = 475-480; 98 = 480-485; 99 = 485-490; 100 = 490-495; 101 = 495-500; 102 = 500-505; 103 = 505-510; 104 = 510-515; 105 = 515-520; 106 = 520-525; 107 = 525-530; 108 = 530-535; 109 = 535-540; 110 = 540-545; 111 = 545-550; 112 = 550-555; 113 = 555-560; 114 = 560-565; 115 = 565-570; 116 = 570-575; 117 = 575-580; 118 = 580-585; 119 = 585-590; 120 = 590-595; 121 = 595-600; 122 = 600-605; 123 = 605-610; 124 = 610-615; 125 = 615-620; 126 = 620-625; 127 = 625-630; 128 = 630-635; 129 = 635-640; 130 = 640-645; 131 = 645-650; 132 = 650-655; 133 = 655-660; 134 = 660-665; 135 = 665-670; 136 = 670-675; 137 = 675-680; 138 = 680-685; 139 = 685-690; 140 = 690-695; 141 = 695-700; 142 = 700-705; 143 = 705-710; 144 = 710-715; 145 = 715-720; 146 = 720-725; 147 = 725-730; 148 = 730-735; 149 = 735-740; 150 = 740-745; 151 = 745-750; 152 = 750-755; 153 = 755-760; 154 = 760-765; 155 = 765-770; 156 = 770-775; 157 = 775-780; 158 = 780-785; 159 = 785-790; 160 = 790-795; 161 = 795-800; 162 = 800-805; 163 = 805-810; 164 = 810-815; 165 = 815-820; 166 = 820-825; 167 = 825-830; 168 = 830-835; 169 = 835-840; 170 = 840-845; 171 = 845-850; 172 = 850-855; 173 = 855-860; 174 = 860-865; 175 = 865-870; 176 = 870-875; 177 = 875-880; 178 = 880-885; 179 = 885-890; 180 = 890-895; 181 = 895-900; 182 = 900-905; 183 = 905-910; 184 = 910-915; 185 = 915-920; 186 = 920-925; 187 = 925-930; 188 = 930-935; 189 = 935-940; 190 = 940-945; 191 = 945-950; 192 = 950-955; 193 = 955-960; 194 = 960-965; 195 = 965-970; 196 = 970-975; 197 = 975-980; 198 = 980-985; 199 = 985-990; 200 = 990-995; 201 = 995-1000; 202 = 1000-1005; 203 = 1005-1010; 204 = 1010-1015; 205 = 1015-1020; 206 = 1020-1025; 207 = 1025-1030; 208 = 1030-1035; 209 = 1035-1040; 210 = 1040-1045; 211 = 1045-1050; 212 = 1050-1055; 213 = 1055-1060; 214 = 1060-1065; 215 = 1065-1070; 216 = 1070-1075; 217 = 1075-1080; 218 = 1080-1085; 219 = 1085-1090; 220 = 1090-1095; 221 = 1095-1100; 222 = 1100-1105; 223 = 1105-1110; 224 = 1110-1115; 225 = 1115-1120; 226 = 1120-1125; 227 = 1125-1130; 228 = 1130-1135; 229 = 1135-1140; 230 = 1140-1145; 231 = 1145-1150; 232 = 1150-1155; 233 = 1155-1160; 234 = 1160-1165; 235 = 1165-1170; 236 = 1170-1175; 237 = 1175-1180; 238 = 1180-1185; 239 = 1185-1190; 240 = 1190-1195; 241 = 1195-1200; 242 = 1200-1205; 243 = 1205-1210; 244 = 1210-1215; 245 = 1215-1220; 246 = 1220-1225; 247 = 1225-1230; 248 = 1230-1235; 249 = 1235-1240; 250 = 1240-1245; 251 = 1245-1250; 252 = 1250-1255; 253 = 1255-1260; 254 = 1260-1265; 255 = 1265-1270; 256 = 1270-1275; 257 = 1275-1280; 258 = 1280-1285; 259 = 1285-1290; 260 = 1290-1295; 261 = 1295-1300; 262 = 1300-1305; 263 = 1305-1310; 264 = 1310-1315; 265 = 1315-1320; 266 = 1320-1325; 267 = 1325-1330; 268 = 1330-1335; 269 = 1335-1340; 270 = 1340-1345; 271 = 1345-1350; 272 = 1350

SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50
DEAD FALL LOGS:	< 10	10 - 24	25 - 50	> 50
ROUND-UP CODES:	H = NONE	R = RARE	Q = QUANTAL	A = ABUNDANT
CONV. AGE:	✓ POOR	✓ SOUND	MOD. AGE	MATURE
				C/D GROWTH

SOIL ANALYSIS:			
TEXTURE:	DEPTH TO MOTILES / GLEY	g =	Σ =
MOISTURE:	DEPTH OF ORGANICS: (cm)		
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: (cm)		

COMMUNITY CLASSIFICATION:		ELC CODE
COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Willow Mineral Deciduous Thicket Swamp	SWT M3
INCLUSION		
COMPLEX		

Notes: Narrow-leaved Silene Gramineae Mamm-9 (M1)
Mineral Meadow Marsh



0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.4, 2.6, 2.8, 3.0, 3.2, 3.4, 3.6, 3.8, 4.0, 4.2, 4.4, 4.6, 4.8, 5.0, 5.2, 5.4, 5.6, 5.8, 6.0, 6.2, 6.4, 6.6, 6.8, 7.0, 7.2, 7.4, 7.6, 7.8, 8.0, 8.2, 8.4, 8.6, 8.8, 9.0, 9.2, 9.4, 9.6, 9.8, 10.0, 10.2, 10.4, 10.6, 10.8, 11.0, 11.2, 11.4, 11.6, 11.8, 12.0, 12.2, 12.4, 12.6, 12.8, 13.0, 13.2, 13.4, 13.6, 13.8, 14.0, 14.2, 14.4, 14.6, 14.8, 15.0, 15.2, 15.4, 15.6, 15.8, 16.0, 16.2, 16.4, 16.6, 16.8, 17.0, 17.2, 17.4, 17.6, 17.8, 18.0, 18.2, 18.4, 18.6, 18.8, 19.0, 19.2, 19.4, 19.6, 19.8, 20.0, 20.2, 20.4, 20.6, 20.8, 21.0, 21.2, 21.4, 21.6, 21.8, 22.0, 22.2, 22.4, 22.6, 22.8, 23.0, 23.2, 23.4, 23.6, 23.8, 24.0, 24.2, 24.4, 24.6, 24.8, 25.0, 25.2, 25.4, 25.6, 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2, 27.4, 27.6, 27.8, 28.0, 28.2, 28.4, 28.6, 28.8, 29.0, 29.2, 29.4, 29.6, 29.8, 30.0, 30.2, 30.4, 30.6, 30.8, 31.0, 31.2, 31.4, 31.6, 31.8, 32.0, 32.2, 32.4, 32.6, 32.8, 33.0, 33.2, 33.4, 33.6, 33.8, 34.0, 34.2, 34.4, 34.6, 34.8, 35.0, 35.2, 35.4, 35.6, 35.8, 36.0, 36.2, 36.4, 36.6, 36.8, 37.0, 37.2, 37.4, 37.6, 37.8, 38.0, 38.2, 38.4, 38.6, 38.8, 39.0, 39.2, 39.4, 39.6, 39.8, 40.0, 40.2, 40.4, 40.6, 40.8, 41.0, 41.2, 41.4, 41.6, 41.8, 42.0, 42.2, 42.4, 42.6, 42.8, 43.0, 43.2, 43.4, 43.6, 43.8, 44.0, 44.2, 44.4, 44.6, 44.8, 45.0, 45.2, 45.4, 45.6, 45.8, 46.0, 46.2, 46.4, 46.6, 46.8, 47.0, 47.2, 47.4, 47.6, 47.8, 48.0, 48.2, 48.4, 48.6, 48.8, 49.0, 49.2, 49.4, 49.6, 49.8, 50.0, 50.2, 50.4, 50.6, 50.8, 51.0, 51.2, 51.4, 51.6, 51.8, 52.0, 52.2, 52.4, 52.6, 52.8, 53.0, 53.2, 53.4, 53.6, 53.8, 54.0, 54.2, 54.4, 54.6, 54.8, 55.0, 55.2, 55.4, 55.6, 55.8, 56.0, 56.2, 56.4, 56.6, 56.8, 57.0, 57.2, 57.4, 57.6, 57.8, 58.0, 58.2, 58.4, 58.6, 58.8, 59.0, 59.2, 59.4, 59.6, 59.8, 60.0, 60.2, 60.4, 60.6, 60.8, 61.0, 61.2, 61.4, 61.6, 61.8, 62.0, 62.2, 62.4, 62.6, 62.8, 63.0, 63.2, 63.4, 63.6, 63.8, 64.0, 64.2, 64.4, 64.6, 64.8, 65.0, 65.2, 65.4, 65.6, 65.8, 66.0, 66.2, 66.4, 66.6, 66.8, 67.0, 67.2, 67.4, 67.6, 67.8, 68.0, 68.2, 68.4, 68.6, 68.8, 69.0, 69.2, 69.4, 69.6, 69.8, 70.0, 70.2, 70.4, 70.6, 70.8, 71.0, 71.2, 71.4, 71.6, 71.8, 72.0, 72.2, 72.4, 72.6, 72.8, 73.0, 73.2, 73.4, 73.6, 73.8, 74.0, 74.2, 74.4, 74.6, 74.8, 75.0, 75.2, 75.4, 75.6, 75.8, 76.0, 76.2, 76.4, 76.6, 76.8, 77.0, 77.2, 77.4, 77.6, 77.8, 78.0, 78.2, 78.4, 78.6, 78.8, 79.0, 79.2, 79.4, 79.6, 79.8, 80.0, 80.2, 80.4, 80.6, 80.8, 81.0, 81.2, 81.4, 81.6, 81.8, 82.0, 82.2, 82.4, 82.6, 82.8, 83.0, 83.2, 83.4, 83.6, 83.8, 84.0, 84.2, 84.4, 84.6, 84.8, 85.0, 85.2, 85.4, 85.6, 85.8, 86.0, 86.2, 86.4, 86.6, 86.8, 87.0, 87.2, 87.4, 87.6, 87.8, 88.0, 88.2, 88.4, 88.6, 88.8, 89.0, 89.2, 89.4, 89.6, 89.8, 90.0, 90.2, 90.4, 90.6, 90.8, 91.0, 91.2, 91.4, 91.6, 91.8, 92.0, 92.2, 92.4, 92.6, 92.8, 93.0, 93.2, 93.4, 93.6, 93.8, 94.0, 94.2, 94.4, 94.6, 94.8, 95.0, 95.2, 95.4, 95.6, 95.8, 96.0, 96.2, 96.4, 96.6, 96.8, 97.0, 97.2, 97.4, 97.6, 97.8, 98.0, 98.2, 98.4, 98.6, 98.8, 99.0, 99.2, 99.4, 99.6, 99.8, 100.0, 100.2, 100.4, 100.6, 100.8, 101.0, 101.2, 101.4, 101.6, 101.8, 102.0, 102.2, 102.4, 102.6, 102.8, 103.0, 103.2, 103.4, 103.6, 103.8, 104.0, 104.2, 104.4, 104.6, 104.8, 105.0, 105.2, 105.4, 105.6, 105.8, 106.0, 106.2, 106.4, 106.6, 106.8, 107.0, 107.2, 107.4, 107.6, 107.8, 108.0, 108.2, 108.4, 108.6, 108.8, 109.0, 109.2, 109.4, 109.6, 109.8, 110.0, 110.2, 110.4, 110.6, 110.8, 111.0, 111.2, 111.4, 111.6, 111.8, 112.0, 112.2, 112.4, 112.6, 112.8, 113.0, 113.2, 113.4, 113.6, 113.8, 114.0, 114.2, 114.4, 114.6, 114.8, 115.0, 115.2, 115.4, 115.6, 115.8, 116.0, 116.2, 116.4, 116.6, 116.8, 117.0, 117.2, 117.4, 117.6, 117.8, 118.0, 118.2, 118.4, 118.6, 118.8, 119.0, 119.2, 119.4, 119.6, 119.8, 120.0, 120.2, 120.4, 120.6, 120.8, 121.0, 121.2, 121.4, 121.6, 121.8, 122.0, 122.2, 122.4, 122.6, 122.8, 123.0, 123.2, 123.4, 123.6, 123.8, 124.0, 124.2, 124.4, 124.6, 124.8, 125.0, 125.2, 125.4, 125.6, 125.8, 126.0, 126.2, 126.4, 126.6, 126.8, 127.0, 127.2, 127.4, 127.6, 127.8, 128.0, 128.2, 128.4, 128.6, 128.8, 129.0, 129.2, 129.4, 129.6, 129.8, 130.0, 130.2, 130.4, 130.6, 130.8, 131.0, 131.2, 131.4, 131.6, 131.8, 132.0, 132.2, 132.4, 132.6, 132

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Legend

- Legend**
- | | |
|--------------------|--|
| [Light Green Box] | Assessment Parcel |
| [Dark Green Box] | Woodland |
| [Medium Green Box] | Conservation Reserve |
| [Light Green Box] | Provincial Park |
| [Green Box] | Natural Heritage System |
| [Pink Box] | Ecoregion |
| [Blue Box] | Wetland |
| [Light Blue Box] | Provincially Significant Non-Permanently Significant Wetland Evaluated |
| [Dark Blue Box] | Unevaluated Wetland |
| [Yellow Box] | Area of Natural Heritage & Scientific Interest (ANHSCI) |
| [Orange Box] | Provincially Significant Life Source AHS |
| [Red Box] | Provincially Significant Earth Science AHS |
| [Purple Box] | Greenbelt Plan |
| [Black Line] | Boundary |
| [Dashed Line] | River Valley Connections |
| [Brown Box] | Land Use Designations |
| [Light Brown Box] | Protected Countryside |
| [Dark Brown Box] | Towns and Villages |
| [Dark Brown Box] | Habitats |
| [Dark Brown Box] | Urban River Valley |
| [Dark Brown Box] | Specialty Crop Area |
| [Dark Brown Box] | Nagara Escarpment Plan (NEP) |
| [Black Line] | Boundary |
| [Hatched Box] | Parks and Open Space System |
| [Hatched Box] | Land Use Designations |
| [Light Brown Box] | Escarpment Natural Area |
| [Light Brown Box] | Escarpment Protection Area |
| [Light Brown Box] | Escarpment Rural Area |
| [Light Brown Box] | Urban Specialty Crop Area |
| [Light Brown Box] | Countryside Area |
| [Light Brown Box] | Settlement Area |
| [Light Brown Box] | Palimpsest Urban Residential Community |
| [Light Brown Box] | Settlement Area |

Site: NAP 120 - Loyalist Observer (s): JWH Date: Jun 14, 2016

Field No: 51		Wetland Type: Swamp		Site Type: 8		Dominant Form: 4	
% Open Water:		Water Depth (cm): 4-20		Depth of Organics (cm): >30			
Soil: A 04		Depth to Mottles (cm):		Gley (cm):			
B		Depth to Mottles (cm):		Gley (cm):			
Presence of Seepage: <input type="checkbox"/>		Presence of Iron Precipitates: <input type="checkbox"/>					
Forms % (Circle those ≥25%)		Species (dominant species ¹ , secondary species ² , present species ³)					
(h) Acer frax, ulmus							
is cornus							
gc onoclea, aquilegia							
ne Ranunc, Carex							
be Typha							
re Lesser Scaevola							
ff							
su							
m							
Rare Species (Local, Regional, Provincial):							
Wildlife Notes:							

Field No: 52		Wetland Type: Swamp		Site Type: 8		Dominant Form: 4	
% Open Water: 10		Water Depth (cm): 4-20		Depth of Organics (cm): >30			
Soil: A 04		Depth to Mottles (cm):		Gley (cm):			
B		Depth to Mottles (cm):		Gley (cm):			
Presence of Seepage: <input type="checkbox"/>		Presence of Iron Precipitates: <input type="checkbox"/>					
Forms % (Circle those ≥25%)		Species (dominant species ¹ , secondary species ² , present species ³)					
(h) Acer frax, ulmus							
is cornus							
gc onoclea, aquilegia							
ne Ranunc, Carex							
be Typha							
re Lesser Scaevola							
ff							
su							
m							
Rare Species (Local, Regional, Provincial):							
Wildlife Notes:							

Site: NAF120 - Leysfield Observer (s): JWH Date: June 14/2016

Field No: <u>41</u>	Wetland Type: <u>Marsh</u>	Site Type: <u>I</u>	Dominant Form: <u>NC</u>
% Open Water: <u>—</u>	Water Depth (cm): <u>—</u>	Depth of Organics (cm): <u>—</u>	
Soil: A	Depth to Mottles (cm): <u>—</u>	Gley (cm): <u>—</u>	
B	Depth to Mottles (cm): <u>—</u>	Gley (cm): <u>—</u>	
Presence of Seepage: <input type="checkbox"/>	Presence of Iron Precipitates: <input type="checkbox"/>	Species: (dominant species ¹ , secondary species ² , present species ³)	
Forms % (Circle those ≥25%)			
h			
c			
dc, dh, ds			
ts			
ls			
gc			
ne			
be			
re			
tf			
f			
su			
m			
Rare Species (Local, Regional, Provincial):			
Wildlife Notes:			

dry - no ponded water

Field No: <u>54</u>	Wetland Type: <u>Swamp</u>	Site Type: <u>P</u>	Dominant Form: <u>TS</u>
% Open Water: <u>—</u>	Water Depth (cm): <u>—</u>	Depth of Organics (cm): <u>1cm</u>	
Soil: A	Depth to Mottles (cm): <u>51CL</u>	Gley (cm): <u>99g</u>	
B	Depth to Mottles (cm): <u>—</u>	Gley (cm): <u>—</u>	
Presence of Seepage: <input type="checkbox"/>	Presence of Iron Precipitates: <input type="checkbox"/>	Species: (dominant species ¹ , secondary species ² , present species ³)	
Forms % (Circle those ≥25%)			
h			
c			
dc, dh, ds			
ts			
ls			
gc			
ne			
be			
re			
tf			
f			
su			
m			
Rare Species (Local, Regional, Provincial):			
Wildlife Notes:			

mix of veg. around adjacent
marsh / bog field & more
marsh SWD to the south



Ministry of Natural Resources and Forestry
Make-a-Map: Natural Heritage Areas

PIN451400097 - NAP160

Notes:
Enter map notes

1st CAD
Drayton



Legend
Ash Swamp

- Natural Heritage System
- Ecological
- Wetland
- Provincially Significant
- Non-Provincially Significant
- Wetland Evaluated
- Un-evaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Science Area (PSLSA)
- Provincially Significant Earth Science Area (PSESA)
- Greenbelt Plan
- Boundary
- Recreation Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Occupies
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mixed Resource Extraction Area
- Escarpment Urban Area
- Urban Area
- More Urban Center
- Oak Ridge Moraine Corridor in Planning
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Landscape Area
- Quintessential Area
- Rural Settlement
- Religious Estates
- Recreational Community
- Settlement Area

0 0.2 km

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ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>UAP 160 - Loyalist</u>		POLYGON: <u>51/41</u>	
	SURVEYOR(S): <u>Jonathan Harris</u>		TIME: start <u>14:50</u> finish <u>15:36</u>	
	DATE: <u>15/06/16</u>			
	UTM Z: <u>UTME</u>	UTM N: <u>UTME</u>		

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
SITE	G ORGANIC	G RIVERINE	G NATURAL	G PLANKTON	G LAKE
	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
SITE	G PARENT M.A.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G MARSH
	G BASIC BEDRK.	G VALLEY SLOPE		G FC-3B	G SWAMP
	G CARB BEDRK.	G ROLL UPLAND		G LICHEN	G BCG
		G CLIFF		G BRYOPHYTE	G MEADOW
		G FALUS		G DECIDUOUS	G BARREN
		G GREY CE/CAVE	COVER	G CON FEROUS	G THICKET
		G ALVAR	G OPEN	G MIXED	G SAVANNAH
		G BEACH BAR	G SHRUB		G WOODLAND
		G SHALLOE WATER	G BLEED		G FOREST
	G SURFICIAL DEP.			G PLANTATION	
	G BEDROCK				

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)
1 CANOPY	24	44	Frax nig, Frax pen
2 SUB-CANOPY	7	3	Frax nig
3 UNDERSTOREY	7		
4 GRD. LAYER	4-7	U	Phalaris

HT CODES: 1 = < 2.5 m 2 = 2.5-4.9 m 3 = 5-7.4 m 4 = 7.5-10 m 5 = 10.5-12.4 m 6 = 12.5-14.9 m 7 = 15-17.4 m 8 = 17.5-20 m 9 = 20.5-22.9 m 10 = 23-25.4 m 11 = 25.5-27.9 m 12 = 28-30.4 m 13 = 30.5-32.9 m 14 = 33-35.4 m 15 = 35.5-37.9 m 16 = 38-40.4 m 17 = 40.5-42.9 m 18 = 43-45.4 m 19 = 45.5-47.9 m 20 = 48-50.4 m 21 = 50.5-52.9 m 22 = 53-55.4 m 23 = 55.5-57.9 m 24 = 58-60.4 m 25 = 60.5-62.9 m 26 = 63-65.4 m 27 = 65.5-67.9 m 28 = 68-70.4 m 29 = 70.5-72.9 m 30 = 73-75.4 m 31 = 75.5-77.9 m 32 = 78-80.4 m 33 = 80.5-82.9 m 34 = 83-85.4 m 35 = 85.5-87.9 m 36 = 88-90.4 m 37 = 90.5-92.9 m 38 = 93-95.4 m 39 = 95.5-97.9 m 40 = 98-100.4 m 41 = 100.5-102.9 m 42 = 103-105.4 m 43 = 105.5-107.9 m 44 = 108-110.4 m 45 = 110.5-112.9 m 46 = 113-115.4 m 47 = 115.5-117.9 m 48 = 118-120.4 m 49 = 120.5-122.9 m 50 = 123-125.4 m 51 = 125.5-127.9 m 52 = 128-130.4 m 53 = 130.5-132.9 m 54 = 133-135.4 m 55 = 135.5-137.9 m 56 = 138-140.4 m 57 = 140.5-142.9 m 58 = 143-145.4 m 59 = 145.5-147.9 m 60 = 148-150.4 m 61 = 150.5-152.9 m 62 = 153-155.4 m 63 = 155.5-157.9 m 64 = 158-160.4 m 65 = 160.5-162.9 m 66 = 163-165.4 m 67 = 165.5-167.9 m 68 = 168-170.4 m 69 = 170.5-172.9 m 70 = 173-175.4 m 71 = 175.5-177.9 m 72 = 178-180.4 m 73 = 180.5-182.9 m 74 = 183-185.4 m 75 = 185.5-187.9 m 76 = 188-190.4 m 77 = 190.5-192.9 m 78 = 193-195.4 m 79 = 195.5-197.9 m 80 = 198-200.4 m 81 = 200.5-202.9 m 82 = 203-205.4 m 83 = 205.5-207.9 m 84 = 208-210.4 m 85 = 210.5-212.9 m 86 = 213-215.4 m 87 = 215.5-217.9 m 88 = 218-220.4 m 89 = 220.5-222.9 m 90 = 223-225.4 m 91 = 225.5-227.9 m 92 = 228-230.4 m 93 = 230.5-232.9 m 94 = 233-235.4 m 95 = 235.5-237.9 m 96 = 238-240.4 m 97 = 240.5-242.9 m 98 = 243-245.4 m 99 = 245.5-247.9 m 100 = 248-250.4 m 101 = 250.5-252.9 m 102 = 253-255.4 m 103 = 255.5-257.9 m 104 = 258-260.4 m 105 = 260.5-262.9 m 106 = 263-265.4 m 107 = 265.5-267.9 m 108 = 268-270.4 m 109 = 270.5-272.9 m 110 = 273-275.4 m 111 = 275.5-277.9 m 112 = 278-280.4 m 113 = 280.5-282.9 m 114 = 283-285.4 m 115 = 285.5-287.9 m 116 = 288-290.4 m 117 = 290.5-292.9 m 118 = 293-295.4 m 119 = 295.5-297.9 m 120 = 298-300.4 m 121 = 300.5-302.9 m 122 = 303-305.4 m 123 = 305.5-307.9 m 124 = 308-310.4 m 125 = 310.5-312.9 m 126 = 313-315.4 m 127 = 315.5-317.9 m 128 = 318-320.4 m 129 = 320.5-322.9 m 130 = 323-325.4 m 131 = 325.5-327.9 m 132 = 328-330.4 m 133 = 330.5-332.9 m 134 = 333-335.4 m 135 = 335.5-337.9 m 136 = 338-340.4 m 137 = 340.5-342.9 m 138 = 343-345.4 m 139 = 345.5-347.9 m 140 = 348-350.4 m 141 = 350.5-352.9 m 142 = 353-355.4 m 143 = 355.5-357.9 m 144 = 358-360.4 m 145 = 360.5-362.9 m 146 = 363-365.4 m 147 = 365.5-367.9 m 148 = 368-370.4 m 149 = 370.5-372.9 m 150 = 373-375.4 m 151 = 375.5-377.9 m 152 = 378-380.4 m 153 = 380.5-382.9 m 154 = 383-385.4 m 155 = 385.5-387.9 m 156 = 388-390.4 m 157 = 390.5-392.9 m 158 = 393-395.4 m 159 = 395.5-397.9 m 160 = 398-400.4 m 161 = 400.5-402.9 m 162 = 403-405.4 m 163 = 405.5-407.9 m 164 = 408-410.4 m 165 = 410.5-412.9 m 166 = 413-415.4 m 167 = 415.5-417.9 m 168 = 418-420.4 m 169 = 420.5-422.9 m 170 = 423-425.4 m 171 = 425.5-427.9 m 172 = 428-430.4 m 173 = 430.5-432.9 m 174 = 433-435.4 m 175 = 435.5-437.9 m 176 = 438-440.4 m 177 = 440.5-442.9 m 178 = 443-445.4 m 179 = 445.5-447.9 m 180 = 448-450.4 m 181 = 450.5-452.9 m 182 = 453-455.4 m 183 = 455.5-457.9 m 184 = 458-460.4 m 185 = 460.5-462.9 m 186 = 463-465.4 m 187 = 465.5-467.9 m 188 = 468-470.4 m 189 = 470.5-472.9 m 190 = 473-475.4 m 191 = 475.5-477.9 m 192 = 478-480.4 m 193 = 480.5-482.9 m 194 = 483-485.4 m 195 = 485.5-487.9 m 196 = 488-490.4 m 197 = 490.5-492.9 m 198 = 493-495.4 m 199 = 495.5-497.9 m 200 = 498-500.4 m 201 = 500.5-502.9 m 202 = 503-505.4 m 203 = 505.5-507.9 m 204 = 508-510.4 m 205 = 510.5-512.9 m 206 = 513-515.4 m 207 = 515.5-517.9 m 208 = 518-520.4 m 209 = 520.5-522.9 m 210 = 523-525.4 m 211 = 525.5-527.9 m 212 = 528-530.4 m 213 = 530.5-532.9 m 214 = 533-535.4 m 215 = 535.5-537.9 m 216 = 538-540.4 m 217 = 540.5-542.9 m 218 = 543-545.4 m 219 = 545.5-547.9 m 220 = 548-550.4 m 221 = 550.5-552.9 m 222 = 553-555.4 m 223 = 555.5-557.9 m 224 = 558-560.4 m 225 = 560.5-562.9 m 226 = 563-565.4 m 227 = 565.5-567.9 m 228 = 568-570.4 m 229 = 570.5-572.9 m 230 = 573-575.4 m 231 = 575.5-577.9 m 232 = 578-580.4 m 233 = 580.5-582.9 m 234 = 583-585.4 m 235 = 585.5-587.9 m 236 = 588-590.4 m 237 = 590.5-592.9 m 238 = 593-595.4 m 239 = 595.5-597.9 m 240 = 598-600.4 m 241 = 600.5-602.9 m 242 = 603-605.4 m 243 = 605.5-607.9 m 244 = 608-610.4 m 245 = 610.5-612.9 m 246 = 613-615.4 m 247 = 615.5-617.9 m 248 = 618-620.4 m 249 = 620.5-622.9 m 250 = 623-625.4 m 251 = 625.5-627.9 m 252 = 628-630.4 m 253 = 630.5-632.9 m 254 = 633-635.4 m 255 = 635.5-637.9 m 256 = 638-640.4 m 257 = 640.5-642.9 m 258 = 643-645.4 m 259 = 645.5-647.9 m 260 = 648-650.4 m 261 = 650.5-652.9 m 262 = 653-655.4 m 263 = 655.5-657.9 m 264 = 658-660.4 m 265 = 660.5-662.9 m 266 = 663-665.4 m 267 = 665.5-667.9 m 268 = 668-670.4 m 269 = 670.5-672.9 m 270 = 673-675.4 m 271 = 675.5-677.9 m 272 = 678-680.4 m 273 = 680.5-682.9 m 274 = 683-685.4 m 275 = 685.5-687.9 m 276 = 688-690.4 m 277 = 690.5-692.9 m 278 = 693-695.4 m 279 = 695.5-697.9 m 280 = 698-700.4 m 281 = 700.5-702.9 m 282 = 703-705.4 m 283 = 705.5-707.9 m 284 = 708-710.4 m 285 = 710.5-712.9 m 286 = 713-715.4 m 287 = 715.5-717.9 m 288 = 718-720.4 m 289 = 720.5-722.9 m 290 = 723-725.4 m 291 = 725.5-727.9 m 292 = 728-730.4 m 293 = 730.5-732.9 m 294 = 733-735.4 m 295 = 735.5-737.9 m 296 = 738-740.4 m 297 = 740.5-742.9 m 298 = 743-745.4 m 299 = 745.5-747.9 m 300 = 748-750.4 m 301 = 750.5-752.9 m 302 = 753-755.4 m 303 = 755.5-757.9 m 304 = 758-760.4 m 305 = 760.5-762.9 m 306 = 763-765.4 m 307 = 765.5-767.9 m 308 = 768-770.4 m 309 = 770.5-772.9 m 310 = 773-775.4 m 311 = 775.5-777.9 m 312 = 778-780.4 m 313 = 780.5-782.9 m 314 = 783-785.4 m 315 = 785.5-787.9 m 316 = 788-790.4 m 317 = 790.5-792.9 m 318 = 793-795.4 m 319 = 795.5-797.9 m 320 = 798-800.4 m 321 = 800.5-802.9 m 322 = 803-805.4 m 323 = 805.5-807.9 m 324 = 808-810.4 m 325 = 810.5-812.9 m 326 = 813-815.4 m 327 = 815.5-817.9 m 328 = 818-820.4 m 329 = 820.5-822.9 m 330 = 823-825.4 m 331 = 825.5-827.9 m 332 = 828-830.4 m 333 = 830.5-832.9 m 334 = 833-835.4 m 335 = 835.5-837.9 m 336 = 838-840.4 m 337 = 840.5-842.9 m 338 = 843-845.4 m 339 = 845.5-847.9 m 340 = 848-850.4 m 341 = 850.5-852.9 m 342 = 853-855.4 m 343 = 855.5-857.9 m 344 = 858-860.4 m 345 = 860.5-862.9 m 346 = 863-865.4 m 347 = 865.5-867.9 m 348 = 868-870.4 m 349 = 870.5-872.9 m 350 = 873-875.4 m 351 = 875.5-877.9 m 352 = 878-880.4 m 353 = 880.5-882.9 m 354 = 883-885.4 m 355 = 885.5-887.9 m 356 = 888-890.4 m 357 = 890.5-892.9 m 358 = 893-895.4 m 359 = 895.5-897.9 m 360 = 898-900.4 m 361 = 900.5-902.9 m 362 = 903-905.4 m 363 = 905.5-907.9 m 364 = 908-910.4 m 365 = 910.5-912.9 m 366 = 913-915.4 m 367 = 915.5-917.9 m 368 = 918-920.4 m 369 = 920.5-922.9 m 370 = 923-925.4 m 371 = 925.5-927.9 m 372 = 928-930.4 m 373 = 930.5-932.9 m 374 = 933-935.4 m 375 = 935.5-937.9 m 376 = 938-940.4 m 377 = 940.5-942.9 m 378 = 943-945.4 m 379 = 945.5-947.9 m 380 = 948-950.4 m 381 = 950.5-952.9 m 382 = 953-955.4 m 383 = 955.5-957.9 m 384 = 958-960.4 m 385 = 960.5-962.9 m 386 = 963-965.4 m 387 = 965.5-967.9 m 388 = 968-970.4 m 389 = 970.5-972.9 m 390 = 973-975.4 m 391 = 975.5-977.9 m 392 = 978-980.4 m 393 = 980.5-982.9 m 394 = 983-985.4 m 395 = 985.5-987.9 m 396 = 988-990.4 m 397 = 990.5-992.9 m 398 = 993-995.4 m 399 = 995.5-997.9 m 400 = 998-1000.4 m 401 = 1000.5-1002.9 m 402 = 1003-1005.4 m 403 = 1005.5-1007.9 m 404 = 1008-1010.4 m 405 = 1010.5-1012.9 m 406 = 1013-1015.4 m 407 = 1015.5-1017.9 m 408 = 1018-1020.4 m 409 = 1020.5-1022.9 m 410 = 1023-1025.4 m 411 = 1025.5-1027.9 m 412 = 1028-1030.4 m 413 = 1030.5-1032.9 m 414 = 1033-1035.4 m 415 = 1035.5-1037.9 m 416 = 1038-1040.4 m 417 = 1040.5-1042.9 m 418 = 1043-1045.4 m 419 = 1045.5-1047.9 m 420 = 1048-1050.4 m 421 = 1050.5-1052.9 m 422 = 1053-1055.4 m 423 = 1055.5-1057.9 m 424 = 1058-1060.4 m 425 = 1060.5-1062.9 m 426 = 1063-1065.4 m 427 = 1065.5-1067.9 m 428 = 1068-1070.4 m 429 = 1070.5-1072.9 m 430 = 1073-1075.4 m 431 = 1075.5-1077.9 m 432 = 1078-1080.4 m 433 = 1080.5-1082.9 m 434 = 1083-1085.4 m 435 = 1085.5-1087.9 m 436 = 1088-1090.4 m 437 = 1090.5-1092.9 m 438 = 1093-1095.4 m 439 = 1095.5-1097.9 m 440 = 1098-1100.4 m 441 = 1100.5-1102.9 m 442 = 1103-1105.4 m 443 = 1105.5-1107.9 m 444 = 1108-1110.4 m 445 = 1110.5-1112.9 m 446 = 1113-1115.4 m 447 = 1115.5-1117.9 m 448 = 1118-1120.4 m 449 = 1120.5-1122.9 m 450 = 1123-1125.4 m 451 = 1125.5-1127.9 m 452 = 1128-1130.4 m 453 = 1130.5-1132.9 m 454 = 1133-1135.4 m 455 = 1135.5-1137.9 m 456 = 1138-1140.4 m 457 = 1140.5-1142.9 m 458 = 1143-1145.4 m 459 = 1145.5-1147.9 m 460 = 1148-1150.4 m 461 = 1150.5-1152.9 m 462 = 1153-1155.4 m 463 = 1155.5-1157.9 m 464 = 1158-1160.4 m 465 = 1160.5-1162.9 m 466 = 1163-1165.4 m 467 = 1165.5-1167.9 m 468 = 1168-1170.4 m 469 = 1170.5-1172.9 m 470 = 1173-1175.4 m 471 = 1175.5-1177.9 m 472 = 1178-1180.4 m 473 = 1180.5-1182.9 m 474 = 1183-1185.4 m 475 = 1185.5-1187.9 m 476 = 1188-1190.4 m 477 = 1190.5-1192.9 m 478 = 1193-1195.4 m 479 = 1195.5-1197.9 m 480 = 1198-1200.4 m 481 = 1200.5-1202.9 m 482 = 1203-1205.4 m 483 = 1205.5-1207.9 m 484 = 1208-1210.4 m 485 = 1210.5-1212.9 m 486 = 1213-1215.4 m 487 = 1215.5-1217.9 m 488 = 1218-1220.4 m 489 = 1220.5-1222.9 m 490 = 1223-1225.4 m 491 = 1225.5-1227.9 m 492 = 1228-1230.4 m 493 = 1230.5-1232.9 m 494 = 1233-1235.4 m 495 = 1235.5-1237.9 m 496 = 1238-1240.4 m 497 = 1240.5-1242.9 m 498 = 1243-1245.4 m 499 = 1245.5-1247.9 m 500 = 1248-1250.4 m 501 = 1250.5-1252.9 m 502 = 1253-1255.4 m 503 = 1255.5-1257.9 m 504 = 1258-1260.4 m 505 = 1260.5-1262.9 m 506 = 1263-1265.4 m 507 = 1265.5-1267.9 m 508 = 1268-1270.4 m 509 = 1270.5-1272.9 m 510 = 1273-1275.4 m 511 = 1275.5-1277.9 m 512 = 1278-1280.4 m 513 = 1280.5-1282.9 m 514 = 1283-1285.4 m 515 = 1285.5-1287.9 m 516 = 1288-1290.4 m 517 = 1290.5-1292.9 m 518 = 1293-1295.4 m 519 = 1295.5-1297.9 m 520 = 1298-1300.4 m 521 = 1300.5-1302.9 m 522 = 1303-1305.4 m 523 = 1305.5-1307.9 m 524 = 1308-1310.4 m 525 = 1310.5-1312.9 m 526 = 1313-1315.4 m 527 = 1315.5-1317.9 m 528 = 1318-1320.4 m 529 = 1320.5-1322.9 m 530 = 1323-1325.4 m 531 = 1325.5-1327.9 m 532 = 1328-1330.4 m 533 = 1330.5-1332.9 m 534 = 1333-1335.4 m 535 = 1335.5-1337.9 m 536 = 1338-1340.4 m 537 = 1340.5-1342.9 m 538 = 1343-1345.4 m 539 = 1345.5-1347.9 m 540 = 1348-1350.4 m 541 = 1350.5-1352.9 m 542 = 1353-1355.4 m 543 = 1355.5-1357.9 m 544 = 1358-1360.4 m 545 = 1360.5-1362.9 m 546 = 1363-1365.4 m 547 = 1365.5-1367.9 m 548 = 1368-1370.4 m 549 = 1370.5-1372.9 m 550 = 1373-1375.4 m 551 = 1375.5-1377.9 m 552 = 1378-1380.4 m 553 = 1380.5-1382.9 m 554 = 1383-1385.4 m 555 = 1385.5-1387.9 m 556 = 1388-1390.4 m 557 = 1390.5-1392.9 m 558 = 1393-1395.4 m 559 = 1395.5-1397.9 m 560 = 1398-1400.4 m 561 = 1400.5-1402.9 m 562 = 1403-1405.4 m 563 = 1405.5-1407.9 m 564 = 1408-1410.4 m 565 = 1410.5-1412.9 m 566 = 1413-1415.4 m 567 = 1415.5-1417.9 m 568 = 1418-1420.4 m 569 = 1420.5-1422.9 m 570 = 1423-1425.4 m 571 = 1425.5-1427.9 m 572 = 1428-1430.4 m 573 = 1430.5-1432.9 m 574 = 1433-1435.4 m 575 = 1435.5-1437.9 m 576 = 1438-1440.4 m 577 = 1440.5-1442.9 m 578 = 1443-1445.4 m 579 = 1445.5-1447.9 m 580 = 1448-1450.4 m 581 = 1450.5-1452.9 m 582 = 1453-1455.4 m 583 = 1455.5-1457.9 m 584 = 1458-1460.4 m 585 = 1460.5-1462.9 m 586 = 1463-1465.4 m 587 = 1465.5-1467.9 m 588 = 1468-1470.4 m 589 = 1470.5-1472.9 m 590 = 1473-1475.4 m 591 = 1475.5-1477.9 m 592 = 1478-1480.4 m 593 = 1480.5-1482.9 m 594 = 1483-1485.4 m 595 = 1485.5-1487.9 m 596 = 1488-1490.4 m 597 = 1490.5-1492.9 m 598 = 1493-1495.4 m 599 = 1495.5-1497.9 m 600 = 1498-1500.4 m 601 = 1500.5-1502.9 m 602 = 1503-1505.4 m 603 = 1505.5-1507.9 m 604 = 1508-1510.4 m 605 = 1510.5-1512.9 m 606 = 1513-1515.4 m 607 = 1515.5-1517.9 m 608 = 1518-1520.4 m 609 = 1520.5-1522.9 m 610 = 1523-1525.4 m 611 = 1525.5-1527.9 m 612 = 1528-1530.4 m 613 = 1530.5-1532.9 m 614 = 1533-1535.4 m 615 = 1535.5-1537.9 m 616 = 1538-1540.4 m 617 = 1540.5-1542.9 m 618 = 1543-1545.4 m 619 = 1545.5-1547.9 m 620 = 1548-1550.4 m 621 = 1550.5-1552.9 m 622 = 1553-1555.4 m 623 = 1555.5-1557.9 m 624 = 1558-1560.4 m 625 = 1560.5-1562.9 m 626 = 1563-1565.4 m 627 = 1565.5-1567.9 m 628 = 1568-1570.4 m 629 = 1570.5-1572.9 m 630 = 1573-1575



Legend

- Abundant Forest
- Woodland
- Conservation Reserve
- Provincial Park
- Heritage System
- Ecological
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Unallocated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Science Area
- Provincially Significant Earth Science Area
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Heritage
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Urban
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Urban
- Land Use Designations
- Urban City Area
- Urban Usage Area
- Countryside Area
- Rural Settlement
- Rural Land Use
- Rural Community
- Settlement Area

0 0.3 km



Projection: Web Mercator

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0.2 km

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2 Q. Yes, I agree for claims 20-25

Projection Web Member

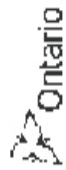


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Legend

-
- Legend:**
- Assessment Parcel
 - Vandalism
 - Conservation Reserve
 - Principal Park
 - Natural Heritage System
 - Erosion
 - Wetland
 - Provincially Significant
 - Non-Primarily Significant
 - Wetland Evaluated
 - Non-allocated Wetland
 - Area of Natural Heritage & Scientific Interest (ANSI)
 - Provincially Significant
 - Potentially Significant
 - Provincially Significant
 - Euth. Science ANSI
- Greenbelt Plan**
- Boundary
 - — — Rail Valley Connections
- Land Use Designations**
- Protected Community
 - Towns and Villages
 - Habitats
 - Urban River Valley
 - Specialty Crop Area
- Nigans Ecocorruption Plan (NEP)**
- Boundary
 - Parks and Open Space System
- Land Use Designations**
- Escapement (Natural Area)
 - Escapement (Protection Area)
 - Escapement (Rural Area)
 - Municipal Resource Extraction Area
 - Escapement (Recreation Area)
 - Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)**
- Boundary
 - Land Use Designations
 - Natural Core Area
 - Natural Landscape Area
 - Countryside Area
 - Rural Settlement
 - Engine & Farms
 - Recreational Community
 - Scenic/Art Area



Ministry of Natural Resources and Forestry Make-a-Map: Natural Heritage Areas

NAP492_middle3

Notes:
Enter map notes



Legend

- Assessment Panel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland Evaluated
- Non-Provincially Significant Wetland Evaluated
- Unclassified Wetland
- Area of Natural Heritage & Scientific Interest (ANH&SI)
- Provincially Significant Life Science Area (LSA)
- Provincially Significant Earth Science Area (ESA)
- Greenbelt Plan
- Boundary
- River Valley Connections

Land Use Designations

- Protected Countryside
- Towns and Villages
- Handlets
- Urban River Valley
- Specialty Crop Area

Niagara Escarpment Plan (NEP)

- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Escarpment Urban Area
- Escarpment Recreation Area
- Urban Area
- Most Urban Corridor

Oak Ridges Moraine Conservation Plan (ORM)

- Boundary
- Land Use Designations
- Natural Core Area
- Natural Heritage Area
- Countryside Area
- Rural Settlement
- Programme Areas
- Settlement Area

0 0.2 km

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ELC		SITE:	
POLYGON:		NAP 492/493	
DATE:		52	
SURVEYOR(S):		Jude 16, 2016	
SLOPE:		Jude	

P/L	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1					Sample	A			
2									
3									
4									
5									

SOIL		SLOPE		UTM	
TEXTURE HORIZON		1		2	
30cm		30cm		30cm	

A	TEXTURE	oh
B	TEXTURE	
C	TEXTURE	
D	TEXTURE	
E	TEXTURE	
F	TEXTURE	
G	TEXTURE	
H	TEXTURE	
I	TEXTURE	
J	TEXTURE	
K	TEXTURE	
L	TEXTURE	
M	TEXTURE	
N	TEXTURE	
O	TEXTURE	
P	TEXTURE	
Q	TEXTURE	
R	TEXTURE	
S	TEXTURE	
T	TEXTURE	
U	TEXTURE	
V	TEXTURE	
W	TEXTURE	
X	TEXTURE	
Y	TEXTURE	
Z	TEXTURE	

DEFINITION OF	
POSITIVE	991
SLIP	114
RETROCK	114
WATER TABLE	0
CARBONATE	0
DEPTH OF CRACKS	>30
PORE SIZE DMC 40	
PORE SIZE DMC 40	
MOISTURE RESERVE	0

SOIL CLASSIFICATION	
LEGEND CLASS	

ELC		SITE:	
PLANT SPECIES LIST		NAP 492/493	
DATE:		52	
SURVEYOR(S):		Jude 16, 2016	
LAYER:		Jude	

SPECIES CODE	LAYER	CC	SPECIES CODE	LAYER	CC
Acer	1	AKO	Phalaris	1	AKO
Grass	2	ORR	Blue Flag	2	ORR
Rubus	3	RR	Spartan	3	RR
Thymus	4	RR	Calluna	4	RR
Urtica	5	RR	Wash Fern	5	RR
Linum	6	ORR	Cleome	6	ORR
Compositae	7	RR		7	RR
	8			8	
	9			9	
	10			10	
	11			11	
	12			12	
	13			13	
	14			14	
	15			15	
	16			16	
	17			17	
	18			18	
	19			19	
	20			20	
	21			21	
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	23			23	
	24			24	
	25			25	
	26			26	
	27			27	
	28			28	
	29			29	
	30			30	

open
under
NSP

SITE: NAP 492		POLYGON: S3	
SURVEYOR(S): JWH		DATE: 10/06/16	
UTM: UTM:		TIME: start 14:00 finish 14:45	

POLYGON DESCRIPTION				
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN G ACID BEDCK G BASIC BEDCK G CARB BEDCK	G LACUSTRINE G RIVERINE G ECTOMELAND G TERRACE G VALLEY SLOPE G VALLEY FLOOR G HILLSIDE G TALLS G CREEK / CAVE G ROCK AND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING LVL G GRASSLAND G FERN G BUSH G BARREN G MEADOW G PRAIRIE G T-HICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE	G OPEN WATER G SHALLOW WATER G SPECIAL DEP G BEDROCK		COVER G OPEN G SH-RUB G TREED	


STAND DESCRIPTION:		
LAYER	HT	CVR
1 CANOPY	1	34
2 SUB-CANOPY	2	3
3 UNDERSTOREY	3	2
4 GRD. LAYER		
HT CODES: 1 = < 25 m 2 = 10-25 m 3 = 26-40 m 4 = > 40 m 5 = 0.5-1.2 m 6 = 0.2-0.5 m 7 = 0.1-0.2 m CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10% < CVR < 25% 3 = 25% < CVR < 50% 4 = 50% < CVR < 60% 5 = 60% < CVR < 70% 6 = 70% < CVR < 80% 7 = 80% < CVR < 90% 8 = 90% < CVR < 100% 9 = 100% < CVR < 110% 10 = 110% < CVR < 120% 11 = 120% < CVR < 130% 12 = 130% < CVR < 140% 13 = 140% < CVR < 150% 14 = 150% < CVR < 160% 15 = 160% < CVR < 170% 16 = 170% < CVR < 180% 17 = 180% < CVR < 190% 18 = 190% < CVR < 200% 19 = 200% < CVR < 210% 20 = 210% < CVR < 220% 21 = 220% < CVR < 230% 22 = 230% < CVR < 240% 23 = 240% < CVR < 250% 24 = 250% < CVR < 260% 25 = 260% < CVR < 270% 26 = 270% < CVR < 280% 27 = 280% < CVR < 290% 28 = 290% < CVR < 300% 29 = 300% < CVR < 310% 30 = 310% < CVR < 320% 31 = 320% < CVR < 330% 32 = 330% < CVR < 340% 33 = 340% < CVR < 350% 34 = 350% < CVR < 360% 35 = 360% < CVR < 370% 36 = 370% < CVR < 380% 37 = 380% < CVR < 390% 38 = 390% < CVR < 400% 39 = 400% < CVR < 410% 40 = 410% 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T-Line - Primary_3

Notes:
E = 12" map notes



Legend

- 
 Assessment Parcel
 Woodland
 Conservation Reserve
 Provincial Park
 Natural Heritage System
 Ecotone
 Wetland
 Provincially Significant
 Provincially Significant
 Non-Proprietary Significant
 Provincially Evaluated
 Unprotected Wetland
 Areas of Interest and Heritage & Scientific Interest (ANSI)
 Provincially Significant
 Life Science (ALSI)
 Provincially Significant
 Earth Science (ANSI)
 Greenbelt Plan
 Boundary
 - - - River Valley Connections
 Land Use Designations
 Protected Countryside
 Towns and Villages
 Hamlets
 Urban River Valley
 Specialty Crop Area
 Niagara Escarpment Plan (NEP)
 Boundary
 Parks and Open Space System
 Land Use Designations
 Escarpment Natural Area
 Escarpment Protection Area
 Escarpment Rural Area
 Mineral Resource Extraction Area
 Escarpment Recreation Area
 Urban Area
 Minor Urban Centre
 Oak Ridges Moraine Conservation Plan (ORM)
 Boundary
 Land Use Designations
 Natural Core Area
 Natural Linkage Area
 Countryside Area
 Rural Settlement
 Pilgrims' Edges
 Residential Community
 Settlement Area



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Projection, Web Mercator



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ELC		TE: 7-lin Chy. Rd. 14		POLYGON: 8 M	
COMMUNITY DESCRIPTION & CLASSIFICATION		DATE: 2/06/16		TIME: start 11:45 finish 12:30	
SURVEYOR(S): John Harris		UTM: 16		UTM: 16	

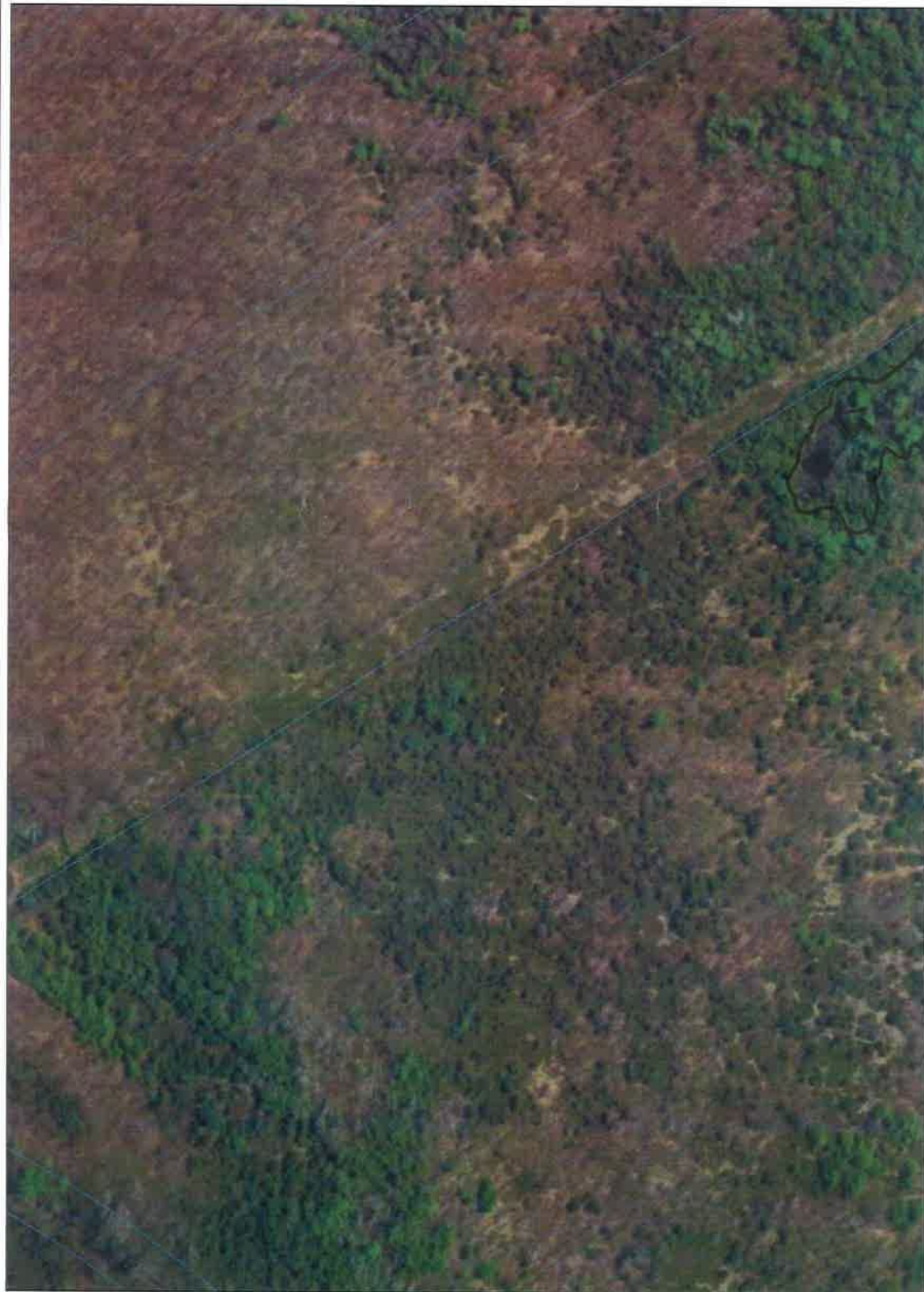
POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G FORD
G AQUATIC	G PARENT MIN.	G TERRACE		G FLOTTING-LVD.	G RIVER
	G ACIDIC BEDRK.	G VALLEY SLOPE		G GRASSING C.	G STRAM
	G BAS C. BEDRK.	G ROLL UPLAND		G FORB	G MARSH
	G CARB. BEDRK.	G CLIFF		G JCHEN	G SWAMP
		G TALUS		G BRYOPHYTE	G FEN
		G CREVICE / CAVE		G DECIDUOUS	G BOG
		G ALVAR		G CONIFEROUS	G BARREN
		G ROCKLAND		G MIXED	G MEADOW
		G BEACH / BAR			G PRAIRIE
		G SAND DUNE			G THICKET
		G BLUFF			G SAVANNAH
					G WOODLAND
					G FOREST
					G PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	4	4	Typha angustifolia > Blue Flag.

HT CODES: 1 = >25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-2 m 5 = 0.5-2 m 6 = 0.2-0.5 m 7 = 0.1-0.2 m
 CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10% < CVR < 25% 3 = 25% < CVR < 50% 4 = 50% < CVR < 60% 5 = 60% < CVR < 70% 6 = 70% < CVR < 80% 7 = 80% < CVR < 90% 8 = 90% < CVR < 100% 9 = 100% < CVR < 110% 10 = 110% < CVR < 120% 11 = 120% < CVR < 130% 12 = 130% < CVR < 140% 13 = 140% < CVR < 150% 14 = 150% < CVR < 160% 15 = 160% < CVR < 170% 16 = 170% < CVR < 180% 17 = 180% < CVR < 190% 18 = 190% < CVR < 200% 19 = 200% < CVR < 210% 20 = 210% < CVR < 220% 21 = 220% < CVR < 230% 22 = 230% < CVR < 240% 23 = 240% < CVR < 250% 24 = 250% < CVR < 260% 25 = 260% < CVR < 270% 26 = 270% < CVR < 280% 27 = 280% < CVR < 290% 28 = 290% < CVR < 300% 29 = 300% < CVR < 310% 30 = 310% < CVR < 320% 31 = 320% < CVR < 330% 32 = 330% < CVR < 340% 33 = 340% < CVR < 350% 34 = 350% < CVR < 360% 35 = 360% < CVR < 370% 36 = 370% < CVR < 380% 37 = 380% < CVR < 390% 38 = 390% < CVR < 400% 39 = 400% < CVR < 410% 40 = 410% < CVR < 420% 41 = 420% < CVR < 430% 42 = 430% < CVR < 440% 43 = 440% < CVR < 450% 44 = 450% < CVR 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0.2 km

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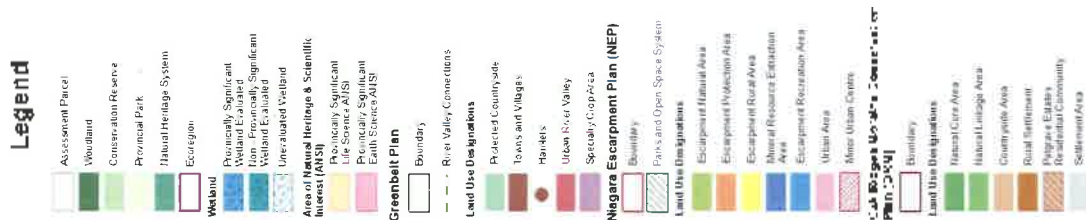
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Road Allowance cont.1

2000
 2001



0.2 km

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Legend

- [illegible]

Location Robin / Loyalist Twp Date May 17, 2016 103
Project / Client Dillon Co. (BlueEarth Solar)
Alvar Assessment

08:00 Meet Jon Harris (Dillon) in
Napier. (647-962-7401)

SITE 1: Across from 721 Centreville Rd.
Farm access lane.

SITE 2 Across - quarry pit
access road bottom of hill
North side of road. green gate

SITE 3 1151 Birch Rd. (south end)
→ farm

Note: lots of early saxifrage &
Antennaria neglecta everywhere.
* NAO23 → open alvar area + many
columbine in bloom. lg patches
of *Oxum triflorum*
Antennaria neglecta & *neglecta*
Cardus Conseribill common throughout

NAO21 → just W. of 804 Birch Rd.
HAYFIELD on west

Project / Client

NAP035 - just down Hinch Rd from
NAP120 → green fern oak
on south side, → cedar rail
fence on north side

MAY 20/2016 BlueEarth Loyalist

→ SITE 1 QUARRY ALVAR N. of Centerville Rd
TIME: 08:00. - Mapping assessment

→ ~~ENTER~~ Red Cedar area N. of active
quarry is treed alvar → densely treed
on east side but open limestone
throughout

→ check density of treed alvar.
→ TRANSMISSION LINE IS EAST PROP. Boundary

SITE 2 ^(PHOTO) OPEN ALVAR EAST OF QUARRY.
WEST SIDE RD, TRAIL & CEDAR FENCE
OPEN ALVAR: mainly Pin, C. glauca.
MISTLETOE + mostly well managed
pastured area → not much open
bedrock → open limestone on adjacent
prop. (photo)

Project / Client

* *Eleocharis compressa* common
NOTE: A01 area marked is pastured
alvar (just south of cedar fence)

A0-C01 cultural alvar. (photo)
ALV4 NO → excellent alvar woodlands.
(photo)

45. Blowing patchy alvar along
east side. + denser juniper
woodland to west.
Rail fence → cedar in woodland
NOT ALVAR

→ return to Centerville Rd
pastures along road variable with
some alvar meadow + wet
alvar → some indicators
+ much of property is alvar
cultural + alvar woodland.
some cedar woods.

SITE 3. →

Location Loyalist Solar Date June 9/16 ¹⁰⁷

Project / Client BlueEarth/Dillon

Time 0800 Temp 11°C

Wind, moderate North West

VEGETATION SURVEYS

→ site 1 NAP 013

A Comm type Red cedar / Poa cane
photo 1 Wetland

- Timothy, Tart, Honeysuckle, Birch, Frag. Virg,
Vio. crac, Yarrow, Co. milkw, Daisy, Pot. recta, Danc. carota,
Poa prat, Trif. vulg, Goutweed, Ulmus, Satureja vulg,
Buckthorn, Hier. florib., Ribes cynos, Tarax. off, Aster cord,
Co. juniper, Cladonia, NE Aster, Fox Poison Ivy, Sedum acre,
Ribes sp., Hawthorn sp. Rubus idaeus, Ranunc. fasci.,
Heal-all, St. Johnswort, Panicum sp., Prickly Ash, Chokeberry
White Cedar, Dog strangling vine (few) ^{718 T 0343105}
Geum alepicum, Bromus Bl. cherry ⁴⁹¹⁴⁷⁶⁰

B Comm type Grassland Alvar / Pea
photo 2 Exposed Bedrock

- wild grape, Birch, Co. milkw, Timothy, Red cedar
Vio. crac, Yarrow, Danc. carota, Sedum acre, Frag. Virg,
Buckthorn, Chokeberry, Silky dogwood, Poison Ivy,
White ash, Carex brevior, Trag. duba, Daisy, Poptem
Agrimony, Salix pet. Elecampane, Rumex crispis
Virginia creeper, NE Aster, Grass sp. [?] Euthymia gram.

Carex granularis few specimens throughout Carex flara,
Solidago acuta, Antennaria neglecta, Yellow sweetclover,
Pot. recta, Rosa blanda, Climbing bitter sweet, Stag. samuch

photo 3 - open alvar

108 Location _____ Date _____
Project / Client _____

- com. mullein, Tart honeysuckle, *Rubus idaeus*,
Co. juniper, ~~Pot~~ *Hieracium prat.*, *Echium vulg.*, St. Johnswort
Cyperus
Bromus inermis, Indian hemp, Buffalo berry, *Scirpus* ~~capillaris~~
Balsam ragwort, (*Eleocharis comp.*), Blue-eyed grass (*S. maritima*)
Carex pallescens ↑ *Juncus dudleyi*
Boneset 18 T 0343123 (woodland periphery north side)
4914900
Bullthistle, Jarrowweed
→ Alvar indicators present but in small #
→ BF Trefoil is dominant invasive
→ otherwise excellent alvar rep.

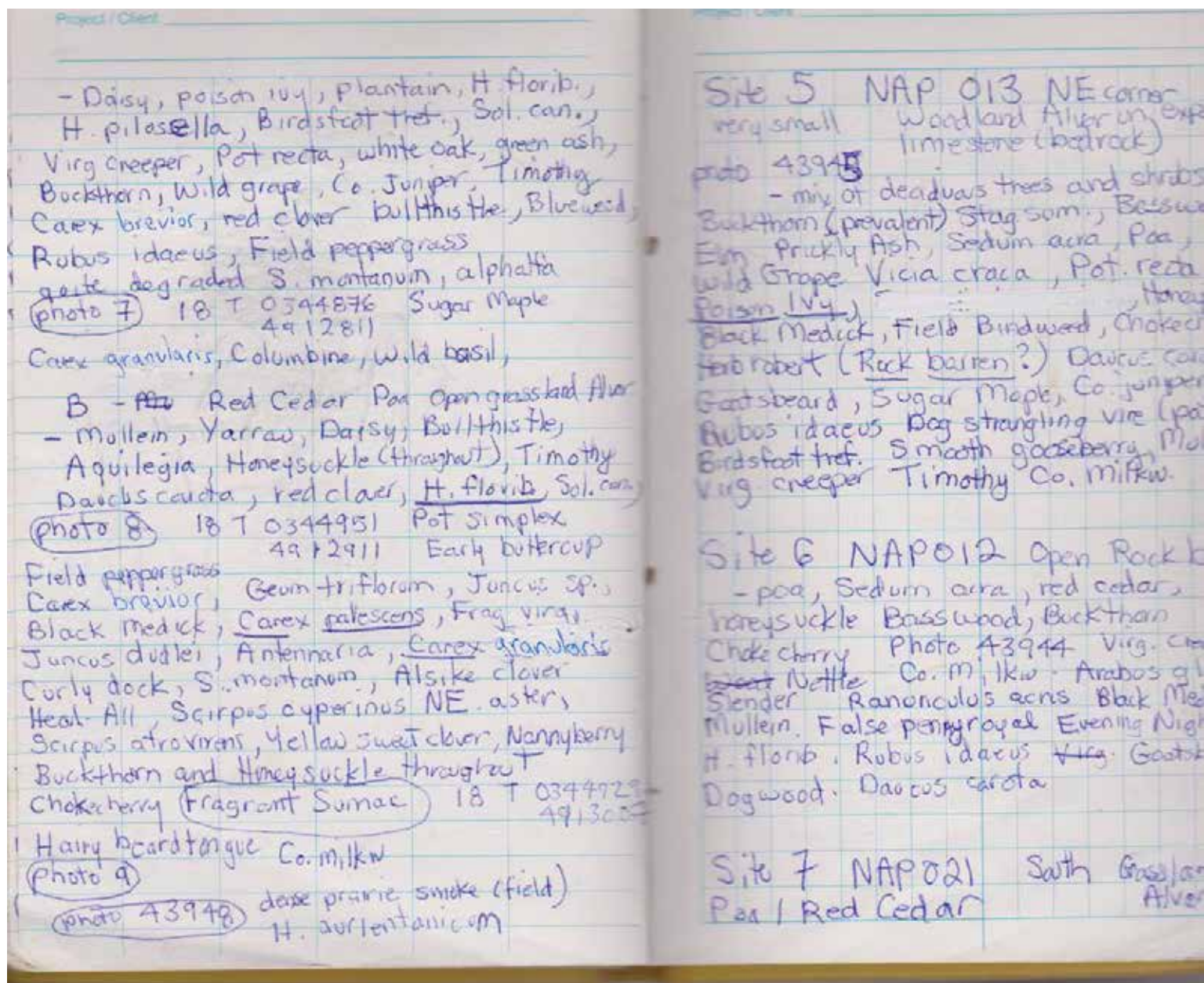
Site 2 NAP 011 (photo 4)
Grass dominated open alvar / pastured
- poa, red clover, *Echium*, Daisy, Bullthistle
Sedum acre, Yarrow, red clover, Smooth gooseberry
St. Johnswort (18 T 0342772) Mullein, Co. juniper,
Nail-All, Pot. simplex 4914526 Antennaria neglecta,
Prickly Ash, *Oxycoccus cordata*, Tart honeysuckle, Buckthorn
Hieracium florib., *Ranunculus acris*, *Hieracium pilosella*,
Stitchwort *Carex pallescens*, *Carex flava*, Black kniflick
Vicia cracca, Pot. recta, *Solidago canadensis*, Tart honeysuckle
along fence line, Fescue, Field spargrass, Slippery Elm
Poison Ivy, Wild grape, *Aralia nud.*, Virginia creeper
Goatsbeard *Hieracium prat.*, *Rubus idaeus*, *Euphorbia* gram
(photo 5) 18 T 0342676 (Woodland alvar)
4914350
EPA cornus foemina Chokecherry White birch

Location _____ Date _____
Project / Client _____

- Climbing Bittersweet, Herb robert
purple flowering raspberry, Staghorn sumac
panicum sp., *Taraxacum* off. *Carex penn.*
pasture rose ~~Gonox~~ *dunet*, King devil
Aster cordifolia, *Carex vulp.*, *Carex brevifl.*
Carex granularis, *Eleocharis* *Lilac* present
along fence line

Site 3 NAP 118 Red Cedar Poa
Woodland Alvar
- pastured - Daisy, *Solidago can.* ^{Tan}
Fescue, Red Clover, *Echium vulgare*, *Poa*
Bullthistle, Pot. recta, Daisy cordata
Chokecherry (photo 6) Stitchwort
prickly ash *Hieracium pilosella*, H. florib.
NE. aster, *Vicia cracca*, H. aorant., Frag
Field pussytoes, St. Johnswort *Carex* ~~sp.~~
Timothy, Yarrow, Slippery Elm, P.C. dogwood
Mullein, Curly dock, Hail-All *Rubus* ~~id.~~
Honeyuckle scattered throughout
- site in poor condition due to cattle
Geum triflorum, Goatsbeard, Buckthorn
Carex gracillima, *Erigeron phil.*
Virg. creeper, *Ranunculus acris*, *Spiraea al.*
Crataegus crus-galli

Site 4 NAP 023
A Red Cedar Poa Woodland
Smooth honeysuckle, Orchard Grass



112	Location	Date
	Project / Client	
	<ul style="list-style-type: none"> - Sedum acra, Curly dock, Fescue Granular Sedge, Co. Milkweed, Yarrow, Daucus Carota, Bromus, Pot recta, Pop tremb, Carex vulp, Yellow Sweetclover Buck thorn, Virg. creeper prickly ash photo 43942 Grey dogwood Wild grape Vicia craca Shiny Sumac Alnus Carex brevior H. Florib, Birdsfoot trif. NE aster R.O. dogwood Salix pet. St. Johnswort, Broomrape 	
	<p>Site 8 NAP 021 North East</p> <p>Red Cedar, Poor Woodland Photo 43941</p> <p>- transitional alvar, species mix similar to site 7. Apple tree</p>	
	<p>Site 9 NAP 021 North West</p> <p>photo 43939 Same as above</p> <p>blue eyed grass, balsam ragwort</p>	
	<p>Site 10 NAP 038 Red Cedar Poor Woodland Alvar</p> <p>- Birdsfoot trif. Co. Milkweed, Yarrow,</p> <p>Daucus carota, Rubus idaeus, Daisy</p>	
	<p>Location</p> <p>Date</p> <p>Project / Client</p>	
	<ul style="list-style-type: none"> - chokecherry alfalfa, wild pars buckthorn, Goatsbeard, Timothy H. florib., red clover, vicia craca Pot recta, Basswood, Mullein Wild grape, Sol. can., Fescue photo 43937 White ash, Virg. creeper Gallium. mollugo - transitional alvar a few grasses plantago lanceolata ^{throughout} - King devil Smooth gooseberry 	
	<p>Quarry Alvar 0800</p> <p>clear 16°C no wind June 15/16</p> <p>Red Cedar Poor Woodland</p>	
	<ul style="list-style-type: none"> - Daisy, P. florib, red clover, St. Johnswort Reindeer moss Medick, Stellaria, Fag. v. Antennaria, Pot. simplex, Daucus c., Ephium, Rubus idaeus, Vitis, Mullein, Co. Milkw, Panicum sp., Yarrow, Danthonia, Bromus Carex sp. Ranunculus acris, Lady Fern, Vicia craca, Poison Ivy, Goatsbeard, Erigeron Chokecherry, Solidago nemoralis, Taraxacum Wild Basil, Symp. cord., Buckthorn, Smooth go Selastrium scabris, Heal-All, Veronica offic. 	

Editor

Project / Client

(Spike rush)

File 2A NAP492

Open Grass Alvar

Bull thistle, Carex aurea, ~~Carex crinita~~,
Carex brevior, Pil. aor. No sign of recent pasturing

18T0343857 *Carex flava* Joe Pye Weed

4916426 white Ash, St. Johnswort

Coax hysterocina, *Poa compressa*, *Coax intermedia*
Yucca crocea white cedar saplings scattered
from soil. (Scattered/not invading)

Date _____

- Balsam ragwort, *Equistum arvens*
Spiraea alba, Shrubby Cingtail water Spred
 Mud Plantain, Pop trem., *Pilosella praetum*,
Carex gracillima, Curly dock
 Some evidence of cattle in the southeast corner

Site 2 B

Cultural Alvar Red Cedar Po

heavily forested
- plantain, daisy, orchard grass, Rubus idaeus
near-All, Pot. simplex, Daucus, Prickly Ash
Echium, Medick, Red Clover, Grape,
Sol. can., Can. Thistle, Yarrow, Curly dock
Bull Thistle, Mullion, Shagbark Elm, Apple
Antennaria, Ironwood, Black Cherry
Poison Ivy, Buckthorn, H. pilosella
Scirpus cyperinus, Eleo camp, Danthonia
Euthamia, Vicia cracca, Birdshot Trefoil,

S. k3' NAP 493A

Small pastured wood
Alvar near road.

- white ash, prickly ash, red cedar, P
Yarrow, Bull Thistle, Basswood,
Slippery Elm, Field Spargrass, white
Clover, Red Clover, Mullen, Curly dock
Echium, Daisy, medick, Moxe

Dante

Project / Client

Site 5 NAP493C Southeast
Small patch Grassland Area

Site G Hell holes road West Trans Line
- Juniper Woodland
poa penn, dense common juniper King devil

Date:

Site 7 Hell hole road Northeast
Dense Red Cedar Juniper
- Carex penn., Sol. sp. ^{Juniper} P. florib., Poison
ivy, Frag. virg., Erigeron sp., Antennaria
Chokecherry, Buckthorn, S. montanum,
Daisy, Viola craca, Pop. trem., Panicum
Capanea, White Ash, Red Oak,
H. pilosella, Reindeer moss, Wild grape
Scribbly ash, Ranunculus, Red clover

Site 8 Hell hole road Southeast
Same as site 7



- Carex gran., Yarrow, Dandelion, early buttercup. Sol can (lots)
Canada anemone Crat. cross-gill.
Carex grac., Rough avena Equis. or
Spirea alba, R.L. dogwood Carex acuta
Carex flava, Wild mint, Heal-All,
Veg. Creeper, White pine

Location Loyalist Solar Date June 21/2016¹²³
 Project / Client 07130
16°C Light West Wind 30% cc.
NAP 013 North Rock
Pathy Red Cedar / Pon Alvar Barrens
OPEN Grassland, Alvar,
 exposed bedrock white cedar
 Yarrow, Melick, Pithomya, Sol can,
 Buckhorn, Milkweed, Dandelion, C. baltica
 C. brevis, B.F. Trefoil, R.O. Dogwoods
 Vicia cracca, Guttweed, Phlox,
 Silky Dogwood, Junco ludovicianus
 Sedum acre, Milkweed, Cereus Lemmonii,
 C. juniper, Pot. norc., Pot. recta,
 Basswood, Daisy, Ch. Cherry, Spirea alba,
 Virg. Creeper, Echinacea, P.v. frimosa
 Rubus idaeus, Tart. honeyuckle, Bromus in.
 Pterocarya, Rubus cuneifolius, Sheep sorrel,
 Toxicolax, Pile. prostrata, Cereus, Sugar Maple,
 Sambucus rac., Tigrax. alb. ~~Rhus glabra~~
 Rhus glabra, Galium boreale Frag. virg.
 Gallium mollugo, C. blanda,
 Sol. juncea Prickly Ash Poison Ivy
 exposed bedrock patches but
 few other spp. → Rock Barrens



124 Location _____ Date _____
 Project / Client _____
NAP 253 → cadmus / SUMAC / Pot
wood / shrubland - ~~not~~ LIMESTONE
exposed
 mixed hardwood, Cereus frim.
 daisy, Anemone cyl., sumac, Pil. Dorch.
 Sol. can, Vicia cracca, Poa. comp.
 Poa prat., Frag. virg., Pot. simplex,
 M., Bw., St. John's Wort, Dandelion
 An. On., Pterocarya, Sol. juncea, Knapweed
 P.v. frimosa, Echinacea, Tuck. Blax,
 Red Maple, Cereus canadensis, Rubus idaeus
No other indicators present *
 small patch of white cedar gr.
 limestone outcropment → no other
 indicators.

Appendix B

Site Photographs

<p>Photo 1</p> <p>FOC</p> <p>Coniferous Forest</p>	
<p>Photo 2</p> <p>FOCM2-1</p> <p>Dry-Fresh Red Cedar Coniferous Forest Type</p>	

<p>Photo 3</p> <p>July 8, 2016</p> <p>FOCM2-2</p> <p>Dry-Fresh White Cedar Coniferous Forest Ecosite</p>	
<p>Photo 4</p> <p>June 21, 2016</p> <p>FOCM4-1</p> <p>Fresh-Moist White Cedar Coniferous Forest Type</p>	

<p>Photo 5</p> <p>June 23, 2016</p> <p>FOCM4</p> <p>Fresh-Moist White Cedar Coniferous Forest Ecosite</p>	
<p>Photo 6</p> <p>FOCS3-1</p> <p>Dry-Fresh White Cedar Calcareous Bedrock Coniferous</p>	


<p>Photo 7</p> <p>FODM3-1</p> <p>Dry-Fresh Poplar Deciduous Forest Type</p>	
<p>Photo 8</p> <p>June 24, 2016</p> <p>FODM4-4</p> <p>Dry-Fresh Ironwood Deciduous Forest Type</p>	

Photo 9

FODM5-7: Dry-Fresh
Sugar Maple-Black
Cherry Deciduous Forest



Photo 10

July 8, 2016

FODM5: Dry-Fresh Sugar
Maple Deciduous Forest
Ecosite



Photo 11

FODM7-2: Fresh-Moist
Green Ash-Hardwood
Lowland Deciduous



Photo 12

FODM7: Fresh-Moist
Lowland Deciduous
Forest





<p>Photo 13</p> <p>FODM8-1: Fresh-Moist Poplar Deciduous Forest</p>	
<p>Photo 14</p> <p>June 14, 2016</p> <p>FODM9: Fresh-Moist Oak-Maple-Hickory Deciduous Forest</p>	

Photo 15

FODR2: Dry-Fresh Oak-
Hardwood Non-
calcareous Shallow
Deciduous



Photo 16

FOMM2-3: Dry-Fresh
White Pine-Hardwood
Mixed Forest Type



Photo 17



FOMM4-3: Dry-Fresh
White Cedar-Hardwood
Mixed Forest Type







Photo 18

FOMM5-2: Dry-Fresh
Poplar Mixed Forest
Type



<p>Photo 19</p> <p>June 16, 2016</p> <p>MAMM1-2: Cattail Graminoid Mineral Meadow Marsh Type</p>	
<p>Photo 20</p> <p>June 21, 2016</p> <p>MAMM1-3: Reed Canary Grass Mineral Meadow Marsh</p>	

<p>Photo 21</p> <p>June 17, 2016</p> <p>MAMM1-9: Narrow-leaved Sedge Graminoid Mineral Meadow Marsh</p>	
<p>Photo 22</p> <p>MAMM3: Mixed Mineral Meadow Marsh</p>	

<p>Photo 23</p> <p>June 17, 2016</p> <p>MAMO1-2: Cattail Graminoid Organic Meadow Marsh</p>	
<p>Photo 24</p> <p>June 15, 2016</p> <p>MAMO1-3: Reed Canary Grass Graminoid Organic Meadow Marsh</p>	



<p>Photo 25</p> <p>June 16, 2016</p> <p>MAMR3: Bedrock Meadow Marsh</p>	
<p>Photo 26</p> <p>MASO1-1: Cattail Organic Shallow Marsh</p>	

Photo 27

MEFM4/TAGM1: Fresh-
moist Forb
Meadow/White Spruce
Coniferous



Photo 28

MEGM4: Fresh-Moist
Graminoid Meadow



Photo 29

MEMM3: Dry-Fresh
Mixed Meadow Ecosite



Photo 30

MEMM4: Fresh-Moist
Mixed Meadow Ecosite





<p>Photo 31</p> <p>July 8, 2016</p> <p>MEMR2: Dry-fresh Non-calcareous Bedrock Mixed Meadow Ecosite</p>	
<p>Photo 32</p> <p>RBOA1-1: Dry Lichen-Moss Open Alvar Pavement Type</p>	

Photo 33

September 29, 2016

RBTA1-5 : Red Cedar
Early Buttercup Treed
Alvar Type



Photo 34

September 30, 2016

RBSA1-1 : Common
Juniper Shrub Alvar Type



Photo 35



RBSA1: Alvar Shrub Rock
Barren Ecosite







Photo 36



RBTA1-7: Red Cedar
Alvar Woodland Type



<p>Photo 37</p> <p>RBTB1-1: Red Cedar Calcareous Treed Alvar Type</p>	
<p>Photo 38</p> <p>SWCO1-1: White Cedar Organic Coniferous Swamp</p>	

<p>Photo 39</p> <p>June 15, 2016</p> <p>SWDM2-1: Black Ash Mineral Deciduous Swamp</p>	
<p>Photo 40</p> <p>June 16, 2016</p> <p>SWDM2-2: Green Ash Mineral Deciduous Swamp</p>	

<p>Photo 41</p> <p>June 21, 2016</p> <p>SWDM3-3: Swamp Maple Mineral Deciduous Swamp</p>	
<p>Photo 42</p> <p>SWDM4: Mineral Deciduous Swamp Ecosite</p>	

<p>Photo 43</p> <p>June 14, 2016</p> <p>SWDO2-3: Swamp Maple Organic Deciduous Swamp</p>	
<p>Photo 44</p> <p>SWTM3: Willow Mineral Deciduous Thicket Swamp</p>	



<p>Photo 45</p> <p>June 17, 2016</p> <p>SWTO2: Willow Organic Deciduous Thicket Swamp</p>	
<p>Photo 46</p> <p>June 15, 2016</p> <p>SWTO5: Organic Deciduous Thicket Swamp</p>	

Photo 47



TAGM1: Coniferous
Plantation



Photo 48

THCM1-1: Dry - Fresh
Red Cedar Coniferous
Thicket



<p>Photo 49</p> <p>July 8, 2016</p> <p>THDM2-7: Prickly Ash Deciduous Shrub Thicket Type</p>	
<p>Photo 50</p> <p>July 8, 2016</p> <p>THDM2: Dry-fresh Deciduous Shrub Thicket Ecosite</p>	

<p>Photo 51</p> <p>THDM5-1: Gray Dogwood Deciduous Thicket</p>	
<p>Photo 52</p> <p>July 8, 2016</p> <p>WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland</p>	

Photo 53

September 30, 2016

FODR1-1 : Dry-Fresh
Sugar Maple –
Hardwood Calcareous
Shallow Deciduous
Forest



Photo 54

September 29, 2016

RBOA1-4 : Dry – Fresh
Poverty Grass Open
Alvar Meadow Type



Photo 55

September 29, 2016

SAGM6 : Shrub
Pastureland



ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
10	FOCM4: Fresh-moist White Cedar Coniferous Forest Ecosite	0.80	10-1	45	OAGM4: Open Pasture	0.95	45-47
10	FOCM4: Fresh-moist White Cedar Coniferous Forest Ecosite	1.83	10-2	45	OAGM4: Open Pasture	0.98	45-48
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	0.32	11-1	45	OAGM4: Open Pasture	1.07	45-49
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	8.53	11-10	45	OAGM4: Open Pasture	0.14	45-5
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	4.30	11-11	45	OAGM4: Open Pasture	0.48	45-50
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	0.06	11-12	45	OAGM4: Open Pasture	2.05	45-51
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	4.35	11-13	45	OAGM4: Open Pasture	2.10	45-6
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	1.14	11-14	45	OAGM4: Open Pasture	0.45	45-7
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	0.65	11-15	45	OAGM4: Open Pasture	0.85	45-8
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	0.57	11-16	45	OAGM4: Open Pasture	0.97	45-9
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	4.38	11-17	46	OAQ: Open Aquatic Area	0.04	46-1

ID *	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	2.03	11-2	46	OAO: Open Aquatic Area	0.14	46-10
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	1.25	11-3	46	OAO: Open Aquatic Area	1.52	46-11
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	1.30	11-4	46	OAO: Open Aquatic Area	0.16	46-2
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	0.67	11-5	46	OAO: Open Aquatic Area	0.18	46-3
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	0.90	11-6	46	OAO: Open Aquatic Area	0.08	46-4
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	3.52	11-7	46	OAO: Open Aquatic Area	0.11	46-5
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	0.93	11-8	46	OAO: Open Aquatic Area	0.33	46-6
11	FOCS3-1: Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	0.25	11-9	46	OAO: Open Aquatic Area	0.10	46-7
12	FODM3-1: Dry-Fresh Poplar Deciduous Forest Type	0.70	12-1	46	OAO: Open Aquatic Area	0.70	46-8
13	FODM4-2: Dry-Fresh White Ash-Hardwood Deciduous Forest Type	2.95	13-1	46	OAO: Open Aquatic Area	0.15	46-9
13	FODM4-2: Dry-Fresh White Ash-Hardwood Deciduous Forest Type	1.02	13-2	47	RBOA1-1: Dry Lichen-Moss Open Alvar Pavement Type	2.65	47-1
13	FODM4-2: Dry-Fresh White Ash-Hardwood Deciduous Forest Type	5.29	13-3	49	RBSA1-1: Common Juniper Shrub Alvar Type	5.98	49-1

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
13	FODM4-2: Dry-Fresh White Ash-Hardwood Deciduous Forest Type	0.68	13-4	5	CVR_4: Rural Residential Property	0.85	5-1
14	FODM4-4: Dry-Fresh Ironwood Deciduous Forest Type	1.05	14-1	5	CVR_4: Rural Residential Property	0.43	5-10
14	FODM4-4: Dry-Fresh Ironwood Deciduous Forest Type	1.85	14-2	5	CVR_4: Rural Residential Property	0.28	5-11
14	FODM4-4: Dry-Fresh Ironwood Deciduous Forest Type	2.22	14-3	5	CVR_4: Rural Residential Property	0.47	5-12
14	FODM4-4: Dry-Fresh Ironwood Deciduous Forest Type	0.42	14-4	5	CVR_4: Rural Residential Property	0.38	5-13
15	FODM5-2: Dry-Fresh Sugar Maple-Beech Deciduous Forest Type	6.45	15-1	5	CVR_4: Rural Residential Property	0.43	5-14
16	FODM5-4: Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type	0.64	16-1	5	CVR_4: Rural Residential Property	0.86	5-15
16	FODM5-4: Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type	0.06	16-2	5	CVR_4: Rural Residential Property	0.45	5-16
16	FODM5-4: Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type	0.05	16-3	5	CVR_4: Rural Residential Property	0.51	5-17
16	FODM5-4: Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type	0.20	16-4	5	CVR_4: Rural Residential Property	0.70	5-18
16	FODM5-4: Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type	18.47	16-5	5	CVR_4: Rural Residential Property	0.19	5-19
16	FODM5-4: Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type	0.22	16-6	5	CVR_4: Rural Residential Property	0.40	5-2
16	FODM5-4: Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type	1.00	16-7	5	CVR_4: Rural Residential Property	0.20	5-20
17	FODM5-7: Dry-fresh Sugar Maple-Black Cherry Deciduous Forest Type	2.49	17-1	5	CVR_4: Rural Residential Property	0.19	5-21

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
17	FODM5-7: Dry-fresh Sugar Maple-Black Cherry Deciduous Forest Type	0.33	17-2	5	CVR_4: Rural Residential Property	0.47	5-22
17	FODM5-7: Dry-fresh Sugar Maple-Black Cherry Deciduous Forest Type	0.47	17-3	5	CVR_4: Rural Residential Property	2.04	5-23
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.37	19-1	5	CVR_4: Rural Residential Property	0.49	5-24
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.08	19-10	5	CVR_4: Rural Residential Property	0.36	5-25
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.24	19-11	5	CVR_4: Rural Residential Property	0.67	5-26
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.46	19-12	5	CVR_4: Rural Residential Property	0.14	5-27
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.44	19-13	5	CVR_4: Rural Residential Property	0.49	5-28
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	1.19	19-14	5	CVR_4: Rural Residential Property	1.39	5-29
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	3.13	19-15	5	CVR_4: Rural Residential Property	0.11	5-3
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.71	19-17	5	CVR_4: Rural Residential Property	0.44	5-30
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	1.05	19-18	5	CVR_4: Rural Residential Property	1.30	5-31
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.33	19-19	5	CVR_4: Rural Residential Property	0.72	5-32
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.73	19-2	5	CVR_4: Rural Residential Property	0.46	5-33
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.64	19-20	5	CVR_4: Rural Residential Property	0.17	5-34

ID *	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	2.20	19-21	5	CVR_4: Rural Residential Property	0.06	5-35
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.72	19-22	5	CVR_4: Rural Residential Property	1.07	5-36
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.08	19-23	5	CVR_4: Rural Residential Property	0.08	5-37
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	2.08	19-24	5	CVR_4: Rural Residential Property	0.62	5-38
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	1.88	19-25	5	CVR_4: Rural Residential Property	0.37	5-39
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.05	19-26	5	CVR_4: Rural Residential Property	0.05	5-4
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	1.84	19-27	5	CVR_4: Rural Residential Property	0.68	5-40
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.44	19-28	5	CVR_4: Rural Residential Property	0.21	5-41
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.30	19-29	5	CVR_4: Rural Residential Property	0.42	5-42
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.47	19-3	5	CVR_4: Rural Residential Property	0.77	5-43
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	2.78	19-30	5	CVR_4: Rural Residential Property	0.19	5-44
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.25	19-31	5	CVR_4: Rural Residential Property	0.37	5-45
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.42	19-32	5	CVR_4: Rural Residential Property	0.21	5-46
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	1.53	19-33	5	CVR_4: Rural Residential Property	0.19	5-47
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.33	19-34	5	CVR_4: Rural Residential Property	1.14	5-48

ID *	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.08	19-35	5	CVR_4: Rural Residential Property	0.96	5-49
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.69	19-36	5	CVR_4: Rural Residential Property	0.44	5-5
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.62	19-37	5	CVR_4: Rural Residential Property	1.71	5-50
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.28	19-38	5	CVR_4: Rural Residential Property	0.56	5-57
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.98	19-39	5	CVR_4: Rural Residential Property	0.71	5-58
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.73	19-4	5	CVR_4: Rural Residential Property	0.26	5-59
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.62	19-5	5	CVR_4: Rural Residential Property	0.93	5-6
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.53	19-6	5	CVR_4: Rural Residential Property	0.21	5-60
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.21	19-7	5	CVR_4: Rural Residential Property	0.18	5-61
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.18	19-8	5	CVR_4: Rural Residential Property	0.26	5-62
19	FODM5: Dry-Fresh Sugar Maple Deciduous Forest Ecosite	0.23	19-9	5	CVR_4: Rural Residential Property	0.40	5-63
2	Cultural Alvar	10.44	2-1	5	CVR_4: Rural Residential Property	0.23	5-64
2	Cultural Alvar	1.61	2-2	5	CVR_4: Rural Residential Property	0.33	5-65
2	Cultural Alvar	1.15	2-3	5	CVR_4: Rural Residential Property	0.48	5-66
2	Cultural Alvar	0.84	2-4	5	CVR_4: Rural Residential Property	0.55	5-67

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.29	20-1	5	CVR_4: Rural Residential Property	0.10	5-68
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.80	20-10	5	CVR_4: Rural Residential Property	0.34	5-69
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.33	20-11	5	CVR_4: Rural Residential Property	0.92	5-7
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	1.05	20-12	5	CVR_4: Rural Residential Property	0.27	5-70
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.95	20-13	5	CVR_4: Rural Residential Property	0.17	5-71
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.63	20-14	5	CVR_4: Rural Residential Property	0.02	5-72
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	2.68	20-15	5	CVR_4: Rural Residential Property	0.30	5-73
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.74	20-16	5	CVR_4: Rural Residential Property	0.35	5-74
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.44	20-17	5	CVR_4: Rural Residential Property	0.94	5-75
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.18	20-18	5	CVR_4: Rural Residential Property	0.28	5-76
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.09	20-19	5	CVR_4: Rural Residential Property	0.25	5-77

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.19	20-2	5	CVR_4: Rural Residential Property	0.25	5-78
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	3.86	20-20	5	CVR_4: Rural Residential Property	0.32	5-8
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.91	20-21	5	CVR_4: Rural Residential Property	0.56	5-9
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.41	20-22	50	RBSA1: Alvar Shrub Rock Barren Ecosite	0.92	50-1
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.20	20-23	50	RBSA1: Alvar Shrub Rock Barren Ecosite	1.31	50-2
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.62	20-24	50	RBSA1: Alvar Shrub Rock Barren Ecosite	2.91	50-3
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.98	20-25	51	RBTA1-7: Red Cedar Alvar Woodland Type	7.61	51-1
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.27	20-26	51	RBTA1-7: Red Cedar Alvar Woodland Type	5.35	51-12
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.90	20-27	51	RBTA1-7: Red Cedar Alvar Woodland Type	0.69	51-13
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.49	20-3	51	RBTA1-7: Red Cedar Alvar Woodland Type	1.66	51-14
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.25	20-4	51	RBTA1-7: Red Cedar Alvar Woodland Type	1.48	51-15

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	1.37	20-5	51	RBTA1-7: Red Cedar Alvar Woodland Type	11.46	51-2
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.31	20-6	51	RBTA1-7: Red Cedar Alvar Woodland Type	16.14	51-4
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.44	20-7	51	RBTA1-7: Red Cedar Alvar Woodland Type	1.88	51-2
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.72	20-8	51	RBTA1-7: Red Cedar Alvar Woodland Type	1.68	51-1
20	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest	0.74	20-9	51	RBTA1-7: Red Cedar Alvar Woodland Type	0.92	51-3
21	FODM7: Fresh - Moist Lowland Deciduous Forest	0.09	21-2	51	RBTA1-7: Red Cedar Alvar Woodland Type	0.76	51-5
21	FODM7: Fresh - Moist Lowland Deciduous Forest	1.05	21-3	51	RBTA1-7: Red Cedar Alvar Woodland Type	11.56	51-7
22	FODM8-1: Fresh-moist Poplar Deciduous Forest	0.71	22-1	51	RBTA1-7: Red Cedar Alvar Woodland Type	3.87	51-8
22	FODM8-1: Fresh-moist Poplar Deciduous Forest	0.40	22-2	51	RBTA1-7: Red Cedar Alvar Woodland Type	14.79	51-9
22	FODM8-1: Fresh-moist Poplar Deciduous Forest	1.59	22-3	52	RBTB1-1: Red Cedar Calcareous Treed Alvar Type	1.55	52-10
22	FODM8-1: Fresh-moist Poplar Deciduous Forest	0.82	22-4	52	RBTB1-1: Red Cedar Calcareous Treed Alvar Type	1.16	52-11
22	FODM8-1: Fresh-moist Poplar Deciduous Forest	1.89	22-5	52	RBTB1-1: Red Cedar Calcareous Treed Alvar Type	2.42	52-5
22	FODM8-1: Fresh-moist Poplar Deciduous Forest	0.77	22-6	52	RBTB1-1: Red Cedar Calcareous Treed Alvar Type	1.93	52-8

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
22	FODM8-1: Fresh-moist Poplar Deciduous Forest	0.54	22-7	52	RBTB1-1: Red Cedar Calcareous Treed Alvar Type	0.44	52-9
22	FODM8-1: Fresh-moist Poplar Deciduous Forest	2.04	22-8	53	SWCO1-1: White Cedar Organic Coniferous Swamp	3.27	53-1
23	FODM9: Fresh-moist Oak-Maple-Hickory Deciduous Forest	0.34	23-1	53	SWCO1-1: White Cedar Organic Coniferous Swamp	2.24	53-2
23	FODM9: Fresh-moist Oak-Maple-Hickory Deciduous Forest	0.41	23-2	53	SWCO1-1: White Cedar Organic Coniferous Swamp	1.54	53-3
24	FODR2: Dry-Fresh Oak-Hardwood Non-calcareous Shallow Deciduous Forest Ecosite	0.08	24-1	53	SWCO1-1: White Cedar Organic Coniferous Swamp	0.42	53-4
24	FODR2: Dry-Fresh Oak-Hardwood Non-calcareous Shallow Deciduous Forest Ecosite	0.47	24-2	53	SWCO1-1: White Cedar Organic Coniferous Swamp	1.92	53-5
25	FOMM2-3: Dry-Fresh White Pine-Hardwood Mixed Forest Type	3.82	25-1	54	SWD: Deciduous Swamp	0.61	54-1
25	FOMM2-3: Dry-Fresh White Pine-Hardwood Mixed Forest Type	1.07	25-2	55	SWDM2-1: Black Ash Mineral Deciduous Swamp	1.49	55-1
25	FOMM2-3: Dry-Fresh White Pine-Hardwood Mixed Forest Type	1.45	25-3	55	SWDM2-1: Black Ash Mineral Deciduous Swamp	0.34	55-2
25	FOMM2-3: Dry-Fresh White Pine-Hardwood Mixed Forest Type	0.19	25-4	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	2.83	56-1
26	FOMM4-3: Dry-Fresh White Cedar-Hardwood Mixed Forest Type	14.30	26-1	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.54	56-10

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
26	FOMM4-3: Dry-Fresh White Cedar-Hardwood Mixed Forest Type	5.01	26-2	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	1.57	56-11
26	FOMM4-3: Dry-Fresh White Cedar-Hardwood Mixed Forest Type	2.74	26-4	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.33	56-12
27	FOMM5-2: Dry-Fresh Poplar Mixed Forest Type	0.66	27-3	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	1.08	56-13
27	FOMM5-2: Dry-Fresh Poplar Mixed Forest Type	0.07	27-4	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.54	56-14
27	FOMM5-2: Dry-Fresh Poplar Mixed Forest Type	0.23	27-5	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.44	56-15
27	FOMM5-2: Dry-Fresh Poplar Mixed Forest Type	0.29	27-6	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.62	56-16
27	FOMM5-2: Dry-Fresh Poplar Mixed Forest Type	0.62	27-7	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	1.99	56-17
28	MAM: Meadow Marsh	0.16	28-1	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	1.16	56-18
28	MAM: Meadow Marsh	0.07	28-2	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.75	56-19
3	CVC_4: Extraction	1.59	3-1	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.24	56-2
3	CVC_4: Extraction	3.39	3-2	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.94	56-20

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
3	CVC_4: Extraction	0.19	3-3	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.52	56-21
3	CVC_4: Extraction	0.40	3-4	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.81	56-22
30	MAMM1-2: Cattail Graminoid Mineral Meadow Marsh Type	0.22	30-1	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.48	56-23
30	MAMM1-2: Cattail Graminoid Mineral Meadow Marsh Type	0.64	30-2	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.28	56-3
30	MAMM1-2: Cattail Graminoid Mineral Meadow Marsh Type	2.00	30-3	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	2.51	56-4
30	MAMM1-2: Cattail Graminoid Mineral Meadow Marsh Type	0.28	30-4	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	3.35	56-5
30	MAMM1-2: Cattail Graminoid Mineral Meadow Marsh Type	1.11	30-5	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	2.26	56-6
30	MAMM1-2: Cattail Graminoid Mineral Meadow Marsh Type	0.47	30-6	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.70	56-7
30	MAMM1-2: Cattail Graminoid Mineral Meadow Marsh Type	1.13	30-7	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.97	56-8
30	MAMM1-2: Cattail Graminoid Mineral Meadow Marsh Type	0.28	30-8	56	SWDM2-2: Green Ash Mineral Deciduous Swamp	0.18	56-9
31	MAMM1-3: Reed Canary Grass Mineral Meadow Marsh	0.06	31-1	57	SWDM3-3: Swamp Maple Mineral Deciduous Swamp	0.46	57-1

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
31	MAMM1-3: Reed Canary Grass Mineral Meadow Marsh	0.30	31-10	57	SWDM3-3: Swamp Maple Mineral Deciduous Swamp	0.70	57-2
31	MAMM1-3: Reed Canary Grass Mineral Meadow Marsh	5.13	31-2	57	SWDM3-3: Swamp Maple Mineral Deciduous Swamp	1.38	57-3
31	MAMM1-3: Reed Canary Grass Mineral Meadow Marsh	0.22	31-3	57	SWDM3-3: Swamp Maple Mineral Deciduous Swamp	2.63	57-4
31	MAMM1-3: Reed Canary Grass Mineral Meadow Marsh	0.26	31-4	57	SWDM3-3: Swamp Maple Mineral Deciduous Swamp	0.23	57-5
31	MAMM1-3: Reed Canary Grass Mineral Meadow Marsh	0.15	31-5	57	SWDM3-3: Swamp Maple Mineral Deciduous Swamp	1.26	57-6
31	MAMM1-3: Reed Canary Grass Mineral Meadow Marsh	0.24	31-6	58	SWDM4-5: Poplar Mineral Deciduous Swamp	5.60	58-1
31	MAMM1-3: Reed Canary Grass Mineral Meadow Marsh	0.08	31-7	58	SWDM4-5: Poplar Mineral Deciduous Swamp	4.21	58-2
31	MAMM1-3: Reed Canary Grass Mineral Meadow Marsh	0.41	31-8	59	SWDM4: Mineral Deciduous Swamp Ecosite	1.73	59-1
32	MAMM1-9: Narrow-leaved Sedge Graminoid Mineral Meadow Marsh	0.16	32-1	59	SWDM4: Mineral Deciduous Swamp Ecosite	1.15	59-2
32	MAMM1-9: Narrow-leaved Sedge Graminoid Mineral Meadow Marsh	0.76	32-2	59	SWDM4: Mineral Deciduous Swamp Ecosite	0.30	59-3
33	MAMM3: Mixed Mineral Meadow Marsh	0.10	33-1	59	SWDM4: Mineral Deciduous Swamp Ecosite	0.14	59-4

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
34	MAMO1-2: Cattail Graminoid Organic Meadow Marsh	0.97	34-1	6	FOC: Coniferous Forest	0.04	6-1
35	MAMO1-3: Reed Canary Grass Graminoid Organic Meadow Marsh	0.48	35-1	60	SWDO2-3: Swamp Maple Organic Deciduous Swamp	6.53	60-1
35	MAMO1-3: Reed Canary Grass Graminoid Organic Meadow Marsh	0.05	35-2	60	SWDO2-3: Swamp Maple Organic Deciduous Swamp	16.86	60-2
35	MAMO1-3: Reed Canary Grass Graminoid Organic Meadow Marsh	0.38	35-3	60	SWDO2-3: Swamp Maple Organic Deciduous Swamp	0.23	60-3
36	MAMR3: Bedrock Meadow Marsh	0.33	36-1	60	SWDO2-3: Swamp Maple Organic Deciduous Swamp	16.77	60-4
37	MASO1-1: Cattail Organic Shallow Marsh	30.83	37-1	60	SWDO2-3: Swamp Maple Organic Deciduous Swamp	0.41	60-5
37	MASO1-1: Cattail Organic Shallow Marsh	8.42	37-2	60	SWDO2-3: Swamp Maple Organic Deciduous Swamp	2.78	60-6
37	MASO1-1: Cattail Organic Shallow Marsh	0.79	37-3	60	SWDO2-3: Swamp Maple Organic Deciduous Swamp	0.43	60-7
37	MASO1-1: Cattail Organic Shallow Marsh	0.35	37-4	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	1.86	61-1

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38	MEFM4: Fresh-moist Forb Meadow	0.99	38-1	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.13	61-10
38	MEFM4: Fresh-moist Forb Meadow	0.89	38-2	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	1.13	61-11
39	MEGM4: Fresh-moist Graminoid Meadow	1.29	39-1	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.88	61-12
4	CVI_1:Transportation (Rail)	0.30	4-1	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	1.11	61-13
4	CVI_1:Transportation (Rail)	1.61	4-2	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	1.32	61-14
4	CVI_1:Transportation (Rail)	0.32	4-3	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.45	61-15
4	CVI_1:Transportation (Rail)	0.40	4-4	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.16	61-17
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.63	40-1	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.45	61-18
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.71	40-10	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.15	61-19
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.81	40-11	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.79	61-2
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.46	40-12	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	1.41	61-3

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40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	1.01	40-13	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.28	61-4
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.70	40-14	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.47	61-5
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.06	40-2	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.83	61-6
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.28	40-3	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.08	61-7
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.71	40-4	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.92	61-8
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.13	40-5	61	SWTM3: Willow Mineral Deciduous Thicket Swamp	0.75	61-9
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.36	40-6	62	SWTO2: Willow Organic Deciduous Thicket Swamp	1.31	62-1
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	0.47	40-8	62	SWTO2: Willow Organic Deciduous Thicket Swamp	1.04	62-2
40	MEMM3: Dry-Fresh Mixed Meadow Ecosite	1.09	40-9	62	SWTO2: Willow Organic Deciduous Thicket Swamp	0.11	62-3
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	1.01	41-1	62	SWTO2: Willow Organic Deciduous Thicket Swamp	0.22	62-4
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	1.49	41-10	63	SWTO5: Organic Deciduous Thicket Swamp	0.50	63-1

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	0.21	41-12	64	TAGM1: Coniferous Plantation	1.21	64-1
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	0.10	41-2	65	TAGM4: Treed Pasture	4.98	65-1
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	0.09	41-3	65	TAGM4: Treed Pasture	3.24	65-2
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	0.88	41-4				
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	0.48	41-5	65	TAGM4: Treed Pasture	1.92	65-4
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	1.07	41-6	65	TAGM4: Treed Pasture	0.62	65-5
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	0.67	41-7	66	TAGM5: Hedgerow	0.06	66-1
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	0.46	41-8	66	TAGM5: Hedgerow	0.06	66-10
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	0.37	41-9	66	TAGM5: Hedgerow	0.07	66-11
42	MEMR2: Dry-fresh Non-calcareous Bedrock Mixed Meadow Ecosite	0.87	42-1	66	TAGM5: Hedgerow	0.06	66-12
42	MEMR2: Dry-fresh Non-calcareous Bedrock Mixed Meadow Ecosite	0.62	42-2	66	TAGM5: Hedgerow	0.05	66-13
42	MEMR2: Dry-fresh Non-calcareous Bedrock Mixed Meadow Ecosite	0.42	42-3	66	TAGM5: Hedgerow	0.04	66-14
42	MEMR2: Dry-fresh Non-calcareous Bedrock Mixed Meadow Ecosite	6.91	42-4	66	TAGM5: Hedgerow	0.03	66-15
42	MEMR2: Dry-fresh Non-calcareous Bedrock Mixed Meadow Ecosite	0.46	42-5	66	TAGM5: Hedgerow	0.09	66-16
42	MEMR2: Dry-fresh Non-calcareous Bedrock Mixed Meadow Ecosite	0.13	42-6	66	TAGM5: Hedgerow	0.03	66-17
42	MEMR2: Dry-fresh Non-calcareous Bedrock Mixed Meadow Ecosite	1.91	42-7	66	TAGM5: Hedgerow	0.04	66-18
42	MEMR2: Dry-fresh Non-calcareous Bedrock Mixed Meadow Ecosite	6.64	42-8	66	TAGM5: Hedgerow	0.02	66-19
43	OAGM1: Annual Cover Crop	0.89	43-1	66	TAGM5: Hedgerow	0.06	66-2

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
43	OAGM1: Annual Cover Crop	7.26	43-14	66	TAGM5: Hedgerow	0.04	66-20
43	OAGM1: Annual Cover Crop	11.74	43-15	66	TAGM5: Hedgerow	0.03	66-21
43	OAGM1: Annual Cover Crop	2.25	43-16	66	TAGM5: Hedgerow	0.04	66-22
43	OAGM1: Annual Cover Crop	4.13	43-17	66	TAGM5: Hedgerow	0.10	66-23
43	OAGM1: Annual Cover Crop	2.15	43-18	66	TAGM5: Hedgerow	0.07	66-24
43	OAGM1: Annual Cover Crop	2.10	43-19	66	TAGM5: Hedgerow	0.08	66-25
43	OAGM1: Annual Cover Crop	0.38	43-2	66	TAGM5: Hedgerow	0.21	66-26
43	OAGM1: Annual Cover Crop	1.07	43-20	66	TAGM5: Hedgerow	0.06	66-27
43	OAGM1: Annual Cover Crop	0.69	43-22	66	TAGM5: Hedgerow	0.06	66-28
43	OAGM1: Annual Cover Crop	0.89	43-23	66	TAGM5: Hedgerow	1.42	66-29
43	OAGM1: Annual Cover Crop	1.14	43-24	66	TAGM5: Hedgerow	0.04	66-3
43	OAGM1: Annual Cover Crop	0.43	43-25	66	TAGM5: Hedgerow	0.75	66-30
43	OAGM1: Annual Cover Crop	0.17	43-26	66	TAGM5: Hedgerow	0.06	66-31
43	OAGM1: Annual Cover Crop	0.55	43-27	66	TAGM5: Hedgerow	0.06	66-32
43	OAGM1: Annual Cover Crop	0.30	43-28	66	TAGM5: Hedgerow	0.09	66-33
43	OAGM1: Annual Cover Crop	0.35	43-29	66	TAGM5: Hedgerow	0.03	66-34
43	OAGM1: Annual Cover Crop	0.74	43-3	66	TAGM5: Hedgerow	0.04	66-35
43	OAGM1: Annual Cover Crop	5.53	43-30	66	TAGM5: Hedgerow	0.07	66-36
43	OAGM1: Annual Cover Crop	0.32	43-31	66	TAGM5: Hedgerow	0.04	66-37
43	OAGM1: Annual Cover Crop	2.37	43-32	66	TAGM5: Hedgerow	0.06	66-38
43	OAGM1: Annual Cover Crop	0.75	43-4	66	TAGM5: Hedgerow	0.04	66-4
43	OAGM1: Annual Cover Crop	0.78	43-5	66	TAGM5: Hedgerow	0.21	66-44

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
43	OAGM1: Annual Cover Crop	4.38	43-6	66	TAGM5: Hedgerow	1.20	66-45
43	OAGM1: Annual Cover Crop	5.70	43-7	66	TAGM5: Hedgerow	0.41	66-46
44	OAGM2: Perennial Cover Crop	9.27	44-1	66	TAGM5: Hedgerow	0.70	66-47
44	OAGM2: Perennial Cover Crop	1.53	44-10	66	TAGM5: Hedgerow	0.19	66-48
44	OAGM2: Perennial Cover Crop	2.04	44-11	66	TAGM5: Hedgerow	0.08	66-49
44	OAGM2: Perennial Cover Crop	0.35	44-12	66	TAGM5: Hedgerow	0.04	66-5
44	OAGM2: Perennial Cover Crop	2.61	44-13	66	TAGM5: Hedgerow	0.04	66-50
44	OAGM2: Perennial Cover Crop	1.18	44-14	66	TAGM5: Hedgerow	0.09	66-51
44	OAGM2: Perennial Cover Crop	0.82	44-15	66	TAGM5: Hedgerow	0.34	66-52
44	OAGM2: Perennial Cover Crop	0.56	44-16	66	TAGM5: Hedgerow	0.27	66-53
44	OAGM2: Perennial Cover Crop	0.66	44-17	66	TAGM5: Hedgerow	1.75	66-54
44	OAGM2: Perennial Cover Crop	0.73	44-18	66	TAGM5: Hedgerow	0.16	66-55
44	OAGM2: Perennial Cover Crop	0.59	44-19	66	TAGM5: Hedgerow	2.21	66-56
44	OAGM2: Perennial Cover Crop	3.91	44-2	66	TAGM5: Hedgerow	0.12	66-57
44	OAGM2: Perennial Cover Crop	0.56	44-20	66	TAGM5: Hedgerow	0.93	66-58
44	OAGM2: Perennial Cover Crop	2.62	44-21	66	TAGM5: Hedgerow	0.85	66-59
44	OAGM2: Perennial Cover Crop	0.27	44-22	66	TAGM5: Hedgerow	0.05	66-6
44	OAGM2: Perennial Cover Crop	1.34	44-23	66	TAGM5: Hedgerow	0.20	66-60
44	OAGM2: Perennial Cover Crop	0.11	44-24	66	TAGM5: Hedgerow	0.04	66-61
44	OAGM2: Perennial Cover Crop	0.27	44-25	66	TAGM5: Hedgerow	0.48	66-62
44	OAGM2: Perennial Cover Crop	1.01	44-26	66	TAGM5: Hedgerow	0.03	66-63
44	OAGM2: Perennial Cover Crop	1.94	44-27	66	TAGM5: Hedgerow	0.43	66-64

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
44	OAGM2: Perennial Cover Crop	0.96	44-28	66	TAGM5: Hedgerow	0.03	66-65
44	OAGM2: Perennial Cover Crop	0.94	44-29	66	TAGM5: Hedgerow	0.31	66-66
44	OAGM2: Perennial Cover Crop	1.06	44-3	66	TAGM5: Hedgerow	0.10	66-67
44	OAGM2: Perennial Cover Crop	0.53	44-30	66	TAGM5: Hedgerow	0.51	66-68
44	OAGM2: Perennial Cover Crop	0.17	44-31	66	TAGM5: Hedgerow	0.06	66-7
44	OAGM2: Perennial Cover Crop	0.23	44-32	66	TAGM5: Hedgerow	0.05	66-8
44	OAGM2: Perennial Cover Crop	0.59	44-33	66	TAGM5: Hedgerow	0.05	66-9
44	OAGM2: Perennial Cover Crop	0.57	44-34	67	THCM1-1: Dry - Fresh Red Cedar Coniferous Thicket	0.39	67-1
44	OAGM2: Perennial Cover Crop	0.50	44-35	67	THCM1-1: Dry - Fresh Red Cedar Coniferous Thicket	0.33	67-2
44	OAGM2: Perennial Cover Crop	1.29	44-36	67	THCM1-1: Dry - Fresh Red Cedar Coniferous Thicket	5.57	67-3
44	OAGM2: Perennial Cover Crop	2.46	44-37	67	THCM1-1: Dry - Fresh Red Cedar Coniferous Thicket	0.91	67-4
44	OAGM2: Perennial Cover Crop	1.06	44-38	68	THDM2-7: Prickly Ash Deciduous Shrub Thicket Type	0.87	68-1
44	OAGM2: Perennial Cover Crop	0.60	44-39	69	THDM2: Dry-fresh Deciduous Shrub Thicket Ecosite	0.49	69-1
44	OAGM2: Perennial Cover Crop	3.34	44-4				
44	OAGM2: Perennial Cover Crop	1.39	44-40	69	THDM2: Dry-fresh Deciduous Shrub Thicket Ecosite	0.37	69-3

ID *	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
44	OAGM2: Perennial Cover Crop	0.66	44-41	69	THDM2: Dry-fresh Deciduous Shrub Thicket Ecosite	0.51	69-4
44	OAGM2: Perennial Cover Crop	0.60	44-42	69	THDM2: Dry-fresh Deciduous Shrub Thicket Ecosite	0.94	69-5
44	OAGM2: Perennial Cover Crop	1.92	44-43	69	THDM2: Dry-fresh Deciduous Shrub Thicket Ecosite	0.23	69-6
44	OAGM2: Perennial Cover Crop	1.59	44-44	7	FOCM2-1: Dry-fresh Red Cedar Coniferous Forest Type	1.95	7-1
44	OAGM2: Perennial Cover Crop	1.00	44-45	70	THDM5-1: Gray Dogwood Deciduous Thicket	0.25	70-1
44	OAGM2: Perennial Cover Crop	0.59	44-46	70	THDM5-1: Gray Dogwood Deciduous Thicket	0.23	70-2
44	OAGM2: Perennial Cover Crop	1.18	44-47	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.06	71-1
44	OAGM2: Perennial Cover Crop	0.95	44-48	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.77	71-10
44	OAGM2: Perennial Cover Crop	0.32	44-49	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	1.94	71-11
44	OAGM2: Perennial Cover Crop	8.06	44-50				
44	OAGM2: Perennial Cover Crop	1.10	44-50	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.76	71-13

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
44	OAGM2: Perennial Cover Crop	0.60	44-51	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	4.48	71-14
44	OAGM2: Perennial Cover Crop	1.43	44-52	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.99	71-15
44	OAGM2: Perennial Cover Crop	0.53	44-53	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	3.84	71-16
44	OAGM2: Perennial Cover Crop	1.92	44-54	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	1.07	71-17
44	OAGM2: Perennial Cover Crop	3.44	44-6	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	6.05	71-18
44	OAGM2: Perennial Cover Crop	0.92	44-66	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.46	71-19
44	OAGM2: Perennial Cover Crop	1.24	44-67	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	2.53	71-2
44	OAGM2: Perennial Cover Crop	3.52	44-68	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	5.67	71-20
44	OAGM2: Perennial Cover Crop	5.35	44-69	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.43	71-21
44	OAGM2: Perennial Cover Crop	8.97	44-7	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	2.34	71-22
44	OAGM2: Perennial Cover Crop	8.26	44-70	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	1.06	71-23

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
44	OAGM2: Perennial Cover Crop	0.17	44-71	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.37	71-24
44	OAGM2: Perennial Cover Crop	3.68	44-72	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	1.04	71-25
44	OAGM2: Perennial Cover Crop	0.73	44-73	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	1.41	71-26
44	OAGM2: Perennial Cover Crop	1.39	44-74	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.30	71-27
44	OAGM2: Perennial Cover Crop	1.02	44-75	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.30	71-28
44	OAGM2: Perennial Cover Crop	0.55	44-76	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.13	71-29
44	OAGM2: Perennial Cover Crop	0.61	44-77	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.54	71-3
44	OAGM2: Perennial Cover Crop	0.61	44-78	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.91	71-30
44	OAGM2: Perennial Cover Crop	0.68	44-79	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.97	71-31
44	OAGM2: Perennial Cover Crop	6.15	44-8	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.12	71-32
44	OAGM2: Perennial Cover Crop	0.22	44-83	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.15	71-33

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
44	OAGM2: Perennial Cover Crop	0.13	44-84	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.06	71-34
44	OAGM2: Perennial Cover Crop	0.90	44-85	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.30	71-35
44	OAGM2: Perennial Cover Crop	0.85	44-86	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	2.59	71-36
44	OAGM2: Perennial Cover Crop	0.86	44-87	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	1.68	71-37
44	OAGM2: Perennial Cover Crop	0.52	44-88	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.41	71-38
44	OAGM2: Perennial Cover Crop	0.35	44-89	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.16	71-39
44	OAGM2: Perennial Cover Crop	1.81	44-9	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.55	71-4
44	OAGM2: Perennial Cover Crop	0.24	44-90	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.43	71-40
44	OAGM2: Perennial Cover Crop	0.83	44-91	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.01	71-41
44	OAGM2: Perennial Cover Crop	0.49	44-92	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.49	71-42
44	OAGM2: Perennial Cover Crop	0.62	44-93	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.87	71-43

ID *	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
44	OAGM2: Perennial Cover Crop	0.47	44-94	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.64	71-44
44	OAGM2: Perennial Cover Crop	0.46	44-95	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.15	71-45
44	OAGM2: Perennial Cover Crop	0.74	44-96	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.56	71-46
44	OAGM2: Perennial Cover Crop	1.64	44-97	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.25	71-47
45	OAGM4: Open Pasture	0.86	45-1	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.39	71-48
45	OAGM4: Open Pasture	0.05	45-10	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	1.85	71-49
45	OAGM4: Open Pasture	2.21	45-11	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	2.90	71-5
45	OAGM4: Open Pasture	0.27	45-12	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.40	71-50
45	OAGM4: Open Pasture	0.17	45-13	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	2.75	71-6
45	OAGM4: Open Pasture	0.31	45-14	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.05	71-7
45	OAGM4: Open Pasture	0.56	45-15	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	1.74	71-8

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
45	OAGM4: Open Pasture	1.06	45-16	71	WOCM1-1: Dry-Fresh Red Cedar Coniferous Woodland	0.29	71-9
45	OAGM4: Open Pasture	1.28	45-17	72	FODR1-1: Dry - Fresh Sugar Maple - Hardwood Calcareous Shallow Deciduous Forest Type	0.69	72-1
45	OAGM4: Open Pasture	0.48	45-18	73	RBOA1-4: Dry – Fresh Poverty Grass Open Alvar Meadow	2.58	73-1
45	OAGM4: Open Pasture	0.59	45-19	74	SAGM6: Shrub Pasture	11.40	74-1
45	OAGM4: Open Pasture	4.77	45-2	8	FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite	3.08	8-1
45	OAGM4: Open Pasture	0.29	45-20	8	FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite	1.93	8-10
45	OAGM4: Open Pasture	1.05	45-21	8	FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite	0.50	8-2
45	OAGM4: Open Pasture	0.94	45-22	8	FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite	0.19	8-3
45	OAGM4: Open Pasture	2.21	45-23	8	FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite	2.17	8-4
45	OAGM4: Open Pasture	0.32	45-24	8	FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite	0.61	8-5

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
45	OAGM4: Open Pasture	1.54	45-26	8	FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite	1.72	8-6
45	OAGM4: Open Pasture	2.11	45-27	8	FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite	0.70	8-7
45	OAGM4: Open Pasture	0.84	45-28	8	FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite	3.01	8-8
45	OAGM4: Open Pasture	0.68	45-29	8	FOCM2-2: Dry-Fresh White Cedar Coniferous Forest Ecosite	0.57	8-9
45	OAGM4: Open Pasture	2.55	45-3	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.97	9-1
45	OAGM4: Open Pasture	0.83	45-30	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.56	9-10
45	OAGM4: Open Pasture	1.57	45-31	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.25	9-11
45	OAGM4: Open Pasture	13.08	45-32	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.20	9-12
45	OAGM4: Open Pasture	1.41	45-33	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.48	9-13
45	OAGM4: Open Pasture	0.63	45-34	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	1.94	9-14
45	OAGM4: Open Pasture	0.79	45-35	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	2.60	9-15

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
45	OAGM4: Open Pasture	5.83	45-36	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.08	9-16
45	OAGM4: Open Pasture	17.38	45-37	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	1.14	9-17
45	OAGM4: Open Pasture	0.48	45-38	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.27	9-18
45	OAGM4: Open Pasture	0.60	45-39	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.37	9-19
45	OAGM4: Open Pasture	2.18	45-4	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.71	9-2
45	OAGM4: Open Pasture	0.45	45-40	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.21	9-20
45	OAGM4: Open Pasture	0.38	45-41	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.54	9-21
45	OAGM4: Open Pasture	1.02	45-42	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	2.79	9-22
45	OAGM4: Open Pasture	0.50	45-43	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.80	9-23
45	OAGM4: Open Pasture	8.24	45-44	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.50	9-24
45	OAGM4: Open Pasture	2.95	45-45	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.74	9-25

ID *	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	1.19	9-4	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.37	9-26
9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.68	9-5	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.50	9-27
9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	1.11	9-6	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.09	9-28
9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.16	9-7	9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.13	9-3
9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.19	9-8				
9	FOCM4-1: Fresh-Moist White Cedar Coniferous Forest Type	0.80	9-9				

*Unique ELC Type (see Legend on Figure 4)

^ Unique ELC Polygon Identifier (see Figure 4a)

Appendix C

Species Lists

Table C1: Rare Plant Species List

Scientific Name	Common Name	Conservation Status					Information Source				Observed in Field
		National	Provincial		Coefficient of Conservation	Coefficient of Wetness	NHIC ⁴	MNRF ⁵	Previous Studies ⁶	Public Observations ⁷	
		SARA ¹	ESA, 2007 ²	SRank ³							
<i>Draba reptans</i>	Carolina Whitlow-grass/ Creeping Draba*	---	---	S3	9	5			●		
<i>Carex oligocarpa</i>	Few-fruited Sedge*	---	---	S3	9	1		●			
<i>Nuphar advena</i>	Large Yellow Pond-lily*	---	---	S3	8	-5			●		
<i>Juncus secundus</i>	One-sided Rush*	---	---	S3	9	5		●			
<i>Torreyochloa pallida</i> var. <i>pallida</i>	Pale False Mannagrass*	---	---	S2	9	-5	●				
<i>Myosurus minimus</i>	Tiny Mousetail*	---	---	S2	8	3	●		●		

¹Species at Risk Act; ²Endangered Species Act; ³SRank Code (see below); ⁴MNRF Natural Heritage Information Centre Database; ⁵MNRF Species at Risk Online Mapping; ⁶Previous Studies as referenced in the NHA Records Review Report; ⁷Observations submitted by local landowners. • denotes occurrence record; --- denotes no information, no status or not applicable; * denotes Species of Conservation Concern.

Note that common species and Species at Risk listed as Threatened or Endangered on Ontario Regulation 230/08 are not included in this table. For all codes, please see overview following Table C2 below.

Scientific Name	Common Name	Conservation Status			Information Source										Observed in Field
		National	Provincial		NHIC ⁴	OBBA ⁵ Square _s	Mammals ⁶	Ontario Nature ⁷	Odonata Atlas ⁸	Butterfly Atlas ⁹	MNR ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	
			SARA ¹	ESA, 2007 ²											
<i>Vireo flavifrons</i>	Yellow-throated Vireo	---	---	S4B		•									
MAMMALS															
<i>Castor canadensis</i>	American Beaver	---	---	S5			•								•
<i>Ursus americanus</i>	American Black Bear	---	---	S5			•								•
<i>Mustela vison</i>	American Mink	---	---	S5			•								
<i>Sorex hoyi</i>	American Pygmy Shrew	---	---	S4			•								
<i>Eptesicus fuscus</i>	Big Brown Bat	---	---	S5			•								
<i>Lynx rufus</i>	Bobcat	---	---	S4			•								
<i>Lynx canadensis</i>	Canadian Lynx	---	---	S5			•								
<i>Sorex cinereus</i>	Cinereus (Masked) Shrew	---	---	S5			•								
<i>Ondatra zibethicus</i>	Common Muskrat	---	---	S5			•								
<i>Canis latrans</i>	Coyote	---	---	S5			•							•	•
<i>Peromyscus maniculatus</i>	Deer Mouse	---	---	S5			•								•
<i>Tamias striatus</i>	Eastern Chipmunk	---	---	S5			•								•
<i>Sylvilagus floridanus</i>	Eastern Cottontail	---	---	S5			•								•
<i>Sciurus carolinensis</i>	Eastern Gray Squirrel	---	---	S5			•								•
<i>Mustela erminea</i>	Ermine	---	---	S5			•								
<i>Martes pennanti</i>	Fisher	---	---	S5			•								
<i>Parascalops breweri</i>	Hairy-tailed Mole	---	---	S4			•								
<i>Lasiurus cinereus</i>	Hoary Bat	---	---	S4			•								
<i>Mustela nivalis</i>	Least Weasel	---	---	SU			•								
<i>Mustela frenata</i>	Long-tailed Weasel	---	---	S4			•								
<i>Zapus hudsonius</i>	Meadow Jumping Mouse	---	---	S5			•								
<i>Microtus pennsylvanicus</i>	Meadow Vole	---	---	S5			•								•
<i>Alces americanus</i>	Moose	---	---	S5			•								
<i>Erethizon dorsatum</i>	North American Porcupine	---	---	S5			•								•
<i>Lontra canadensis</i>	Northern River Otter	---	---	S5			•								
<i>Blarina brevicauda</i>	Northern Short-tailed Shrew	---	---	S5			•								
<i>Procyon lotor</i>	Raccoon	---	---	S5			•								•
<i>Vulpes vulpes</i>	Red Fox	---	---	S5			•								•
<i>Tamiasciurus hudsonicus</i>	Red Squirrel	---	---	S5			•								•
<i>Lasionycteris noctivagans</i>	Silver Haired Bat	---	---	S4			•								

Scientific Name	Common Name	Conservation Status			Information Source										Observed in Field
		National	Provincial		NHIC ⁴	OBBA ⁵ Square s	Mammals ⁶	Ontario Nature ⁷	Odonata Atlas ⁸	Butterfly Atlas ⁹	MNR ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	
			SARA ¹	ESA, 2007 ²											
<i>Sorex fumeus</i>	Smoky Shrew	---	---	S5			•								
<i>Lepus americanus</i>	Snowshoe Hare	---	---	S5			•								
<i>Glaucomys volans</i>	Southern Flying Squirrel	---	---	S4			•								
<i>Clethrionomys gapperi</i>	Southern Red-backed Vole	---	---	S5			•								
<i>Condylura cristata</i>	Star-nosed Mole	---	---	S5			•								
<i>Mephitis mephitis</i>	Striped Skunk	---	---	S5			•								•
<i>Didelphis virginiana</i>	Virginia Opossum	---	---	S4			•								•
<i>Peromyscus leucopus</i>	White –footed Mouse	---	---	S5			•								
<i>Odocoileus virginianus</i>	White-tailed Deer	---	---	S5			•								•
<i>Marmota monax</i>	Woodchuck	---	---	S5			•								•
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse	---	---	S5			•								
HERPETOFAUNA															
<i>Rana catesbeiana</i>	American Bullfrog	---	---	S4				•							•
<i>Bufo americanus</i>	American Toad	---	---	S5				•							•
<i>Plestiodon fasciatus</i> pop. 2	Common Five-lined Skink*	SC	SC	S3	•			•			•				
<i>Chelydra serpentina</i>	Common Snapping Turtle*	SC	SC	S4	•			•			•		•	•	•
<i>Thamnophis sirtalis sirtalis</i>	Eastern Gartersnake	---	---	S5				•			•				•
<i>Lampropeltis triangulum</i>	Eastern Milksnake	---	---	S4				•			•				•
<i>Sternotherus odoratus</i>	Eastern Musk Turtle*	THR	SC	S3							•				
<i>Thamnophis sauritus septentrionalis</i>	Eastern Ribbonsnake*	SC	SC	S3				•			•				
<i>Hyla versicolor</i>	Gray Treefrog	---	---	S5				•							•
<i>Rana clamitans</i>	Green Frog	---	---	S5				•							•
<i>Chrysemys picta marginata</i>	Midland Painted Turtle	---	---	S5				•						•	•
<i>Rana pipiens</i>	Northern Leopard Frog	---	---	S5				•							•
<i>Graptemys geographica</i>	Northern Map Turtle*	SC	SC	S3	•			•			•				
<i>Storeria occipitomaculata occipitomaculata</i>	Northern Red-bellied Snake	---	---	S5				•							
<i>Nerodia sipedon sipedon</i>	Northern Watersnake	---	---	S5				•							•
<i>Rana palustris</i>	Pickerel Frog	---	---	S4				•							•
<i>Opheodrys vernalis</i>	Smooth Greensnake	---	---	S4				•							
<i>Pseudacris crucifer</i>	Spring Peeper	---	---	S5				•							•
<i>Rana sylvatica</i>	Wood Frog	---	---	S5				•							•

Scientific Name	Common Name	Conservation Status			Information Source										Observed in Field
		National	Provincial		NHIC ⁴	OBBA ⁵ Square _s	Mammals ⁶	Ontario Nature ⁷	Odonata Atlas ⁸	Butterfly Atlas ⁹	MNR ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	
			SARA ¹	ESA, 2007 ²											
LEPIDOPTERA															
<i>Vanessa virginiensis</i>	American Lady	---	---	S5						•					
<i>Speyeria aphrodite</i>	Aphrodite Fritillary	---	---	S5						•					
<i>Papilio polyxenes</i>	Black Swallowtail	---	---	S5						•					
<i>Lycaena hyllus</i>	Bronze Copper	---	---	S5						•					
<i>Pieris rapae</i>	Cabbage White	---	---	SNA						•					
<i>Papilio canadensis</i>	Canadian Tiger Swallowtail	---	---	S5						•					
<i>Colias philodice</i>	Clouded Sulphur	---	---	S5						•					
<i>Erynnis lucilius</i>	Columbine Duskywing	---	---	S4						•					
<i>Coenonympha tullia</i>	Common Ringlet	---	---	S5						•					
<i>Amblyscirtes vialis</i>	Common Roadside Skipper	---	---	S4						•					
<i>Cercyonis pegala</i>	Common Wood-Nymph	---	---	S5						•					
<i>Anatrytone logan</i>	Delaware Skipper	---	---	S4						•					
<i>Erynnis icelus</i>	Dreamy Duskywing	---	---	S5						•					
<i>Polygonia comma</i>	Eastern Comma	---	---	S5						•					
<i>Cupido (Everes) comyntas</i>	Eastern Tailed Blue	---	---	S5						•					
<i>Thymelicus lineola</i>	European Skipper	---	---	SNA						•					
<i>Papilio cresphontes</i>	Giant Swallowtail*	---	---	S3						•					
<i>Polygonia progne</i>	Gray Comma	---	---	S5						•					
<i>Speyeria cybele</i>	Great Spangled Fritillary	---	---	S5						•					
<i>Polygonia faunus</i>	Green Comma	---	---	S4						•					
<i>Poanes homobok</i>	Homobok Skipper	---	---	S5						•					
<i>Hesperia sassacus</i>	Indian Skipper	---	---	S4						•					
<i>Callophrys gryneus</i>	Juniper Hairstreak*	---	---	S2						•	•				
<i>Erynnis juvenalis</i>	Juvenal's Duskywing	---	---	S5						•					
<i>Ancyloxypha numitor</i>	Least Skipper	---	---	S5						•					
<i>Megisto cymela</i>	Little Wood-Satyr	---	---	S5						•					
<i>Boloria bellona</i>	Meadow Fritillary	---	---	S5						•					
<i>Aglais milberti</i>	Milbert's Tortoiseshell	---	---	S5						•					
<i>Erynnis martialis</i>	Mottled Duskywing*	---	END	S2							•				
<i>Nymphalis antiopa</i>	Mourning Cloak	---	---	S5						•					
<i>Thorybes pylades</i>	Northern Cloudywing	---	---	S5						•					

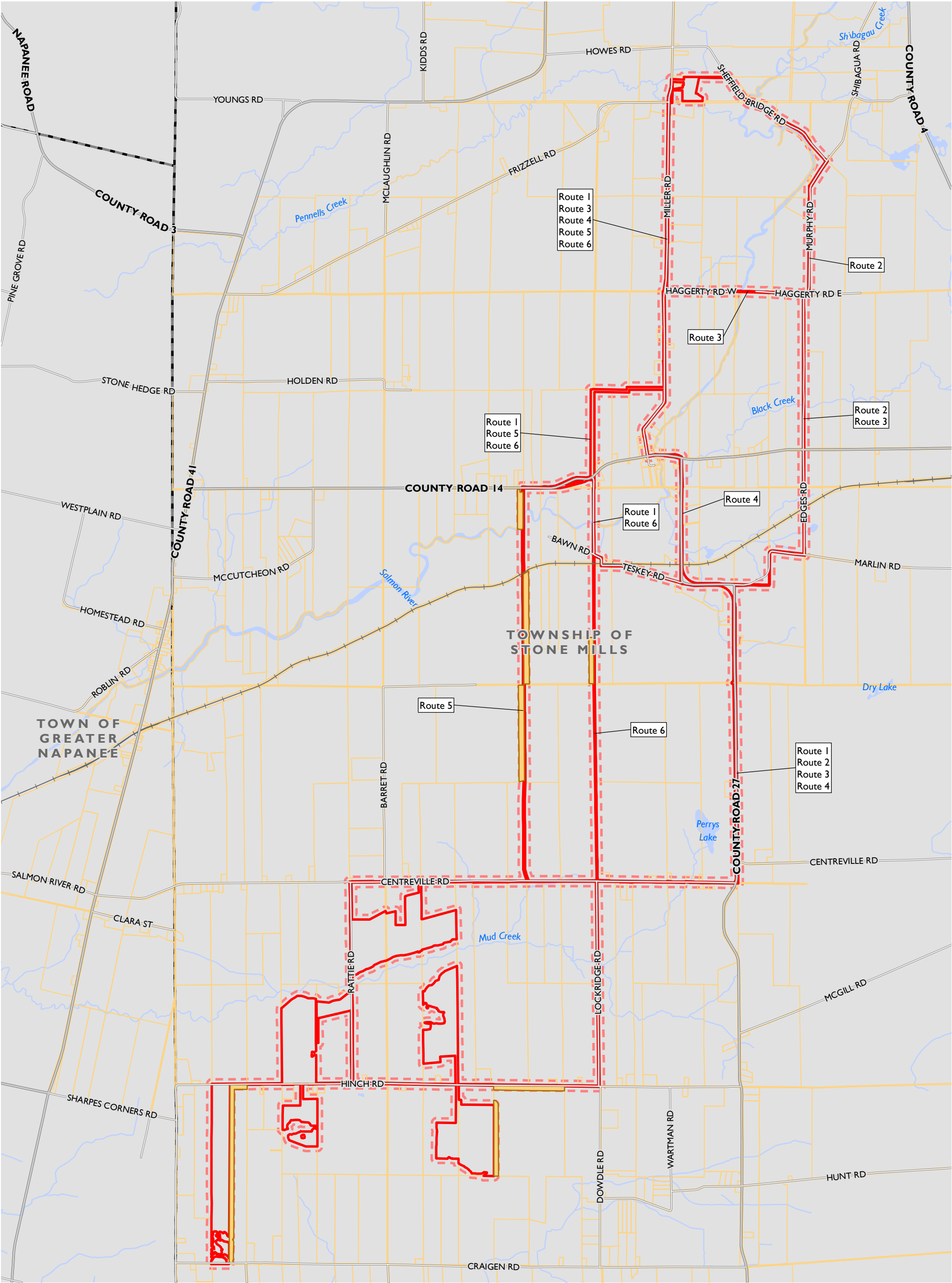
Scientific Name	Common Name	Conservation Status			Information Source										Observed in Field
		National	Provincial		NHIC ⁴	OBBA ⁵ Squares	Mammals ⁶	Ontario Nature ⁷	Odonata Atlas ⁸	Butterfly Atlas ⁹	MNRF ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	
MOLLUSCA															
<i>Vertigo elatior</i>	Tapered Vertigo*	---	---	S2S3	•										
<i>Vertigo nylanderi</i>	Deep-throat Vertigo	---	---	SH	•										
<i>Vertigo paradoxa</i>	Classification Uncertain*	---	---	S2S3	•										

¹*Species at Risk Act*; ²*Endangered Species Act*; ³SRank Code (see overview of codes below); ⁴MNRF NHIC Database; ⁵Ontario Breeding Bird Atlas; ⁶Dobbyn (1994);⁷Ontario Nature (2010) Ontario Reptile and Amphibian Atlas; ⁸Ontario Odonata Atlas; ⁹Toronto Entomologists Association (2013) Ontario Butterfly Atlas Online; ¹⁰MNRF Species at Risk Online Mapping, or MNRF Correspondence; ¹¹Important Bird Areas; ¹²Previous Studies (as referenced in the NHA Records Review Report); ¹³Observations submitted by local landowners. For all codes, please see **Appendix C2**.
• denotes occurrence record and/or project location includes species range; --- denotes no information, no status or not applicable; * denotes Species of Conservation Concern;

Note that some Species at Risk listed as Threatened or Endangered on Ontario Regulation 230/08 are not included in this table. For all codes, please see overview below.

Appendix D

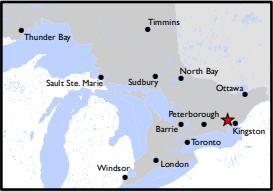
Supplementary Mapping



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**AREA OF ALTERNATIVE
SITE INVESTIGATION**
APPENDIX

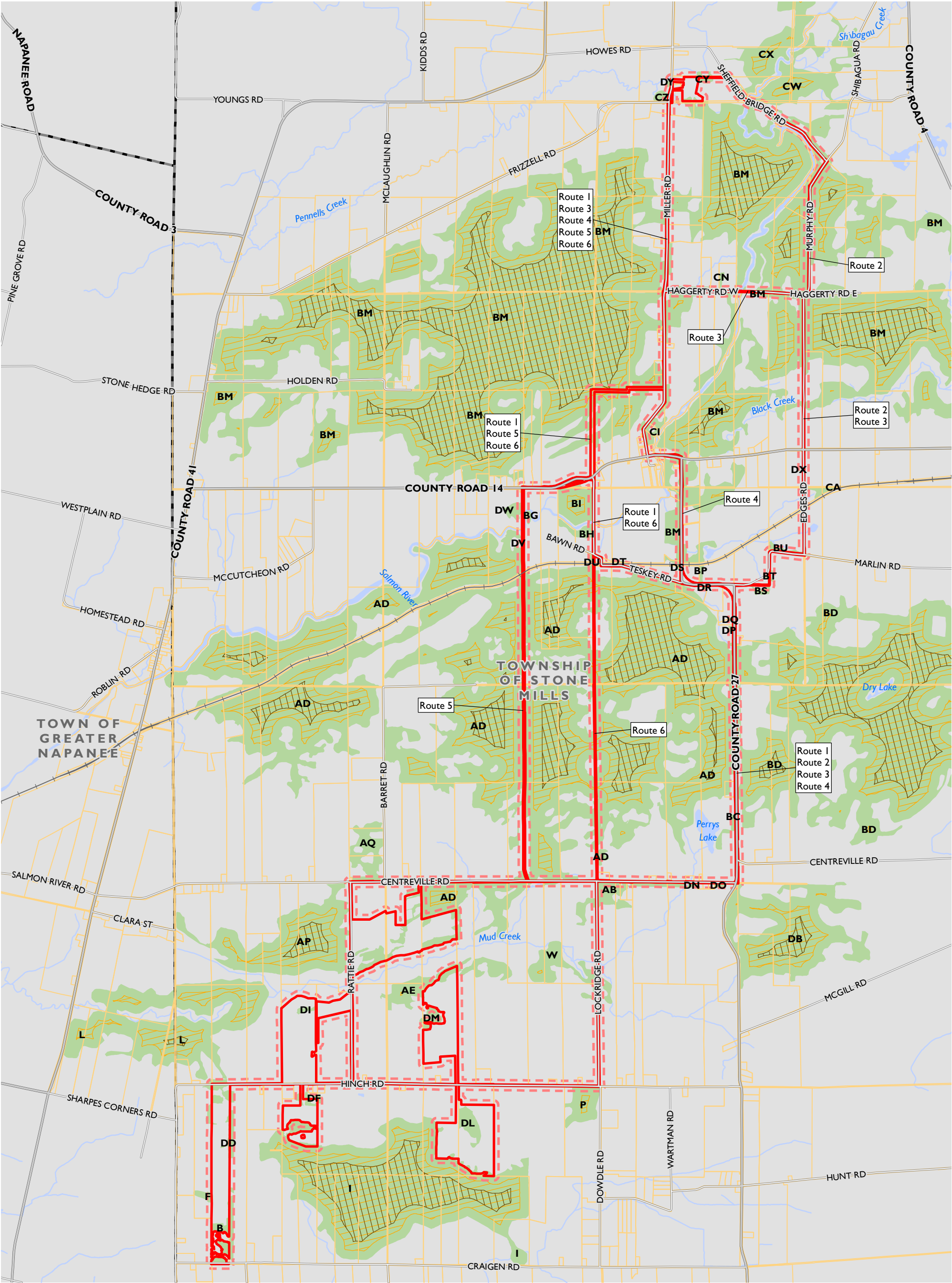
- Railway
- Area of Alternative Site Investigation
- Project Location Boundary (subject to refinement)
- Parcel Boundary
- 50 m Setback
- Lower Tier Municipality
- Mapped Watercourse
- Mapped Water Body



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



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WOODLANDS
APPENDIX D

- Railway

Project Location Boundary (subject to refinement)

Parcel Boundary

50 m Setback

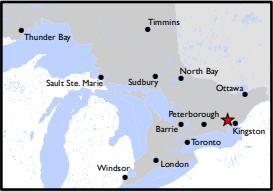
Lower Tier Municipality

200 m Woodland Interior

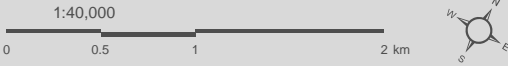
100 m Woodland Interior

Woodland
- Mapped Watercourse

Mapped Water Body



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



PROJECT: 163674 STATUS: DRAFT DATE: 8/2/2016

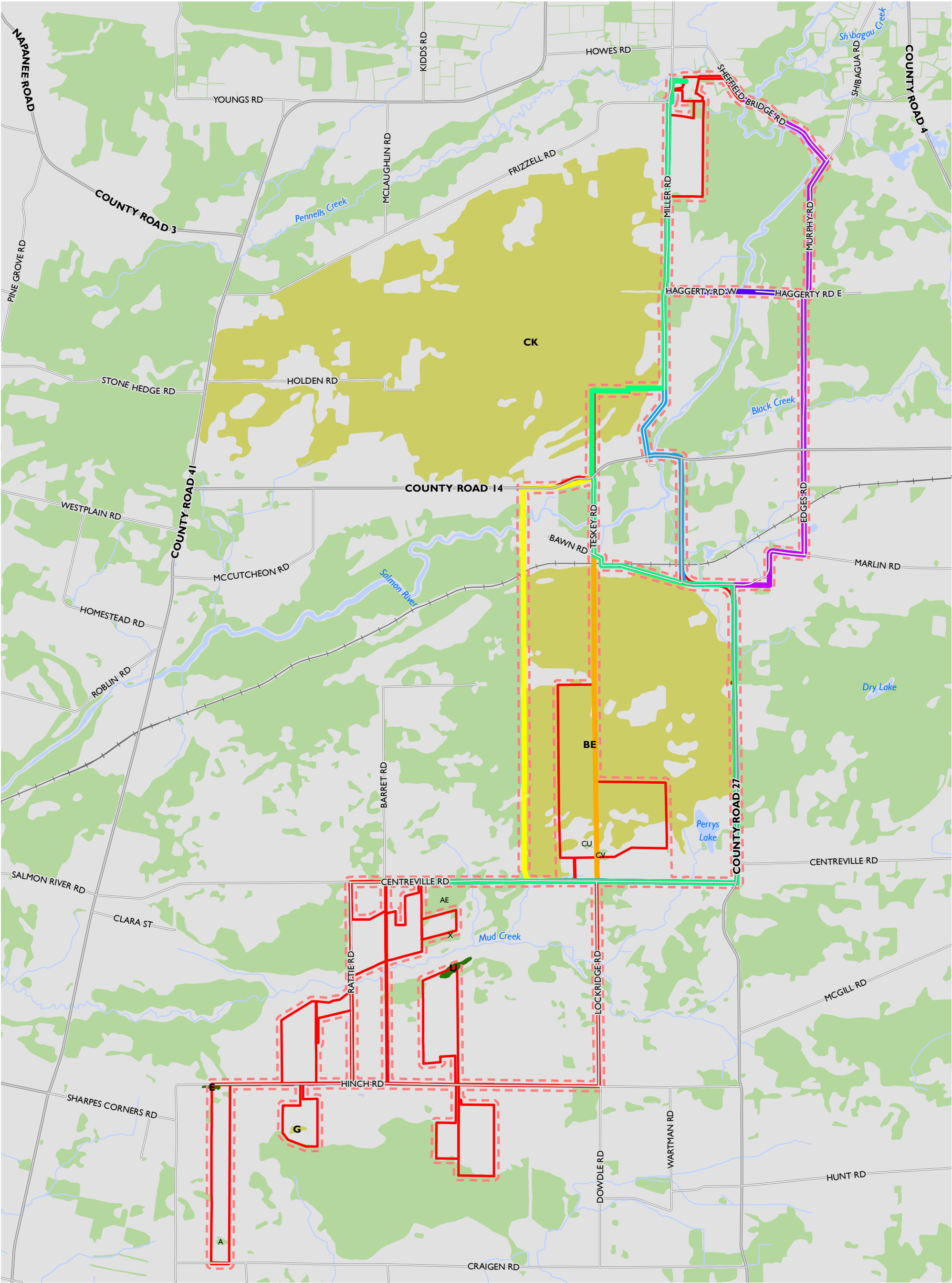
Bats

Wildlife tree plots and snag density searches have been completed for the Project where property access was permitted. Based on these searches, it was determined that the density of wildlife trees does not meet the density for consideration as candidate significant bat maternity colony habitat (<10 snags per ha). See **Figure E1** for locations of density searches completed. Most areas surveyed were found to be dominated by coniferous tree species and generally lack quality cavity trees/ snags. The majority of woodlands surveyed were determined to be dense White Cedar (*Thuja occidentalis*) forests with primarily small trees (Diameter at Breast Height (DBH) of <25 cm). For the limited number of deciduous woodland areas surveyed, the dominant tree species was Sugar Maple with occurrences of Silver Maple, Ash, Basswood, and Oak. **Table E1** below provides additional details on the woodlands within the Project area.

TABLE E1: CAVITY TREE DENSITY SURVEY SUMMARY

Woodland ID	Woodland Type	Description	Size (ha)	# of Plots	# of Cavity Trees Observed	Density (snags/ha)
E	Deciduous Forest	A young aged forest dominated by Hop Hornbeam (<i>Ostrya virginiana</i>) averaging 10-15 cm DBH. A couple larger Shagbark Hickory, Sugar Maple, Common Apple and Oak were also observed. The number of tree >25 DBH only equaled 23 specimens, four of which had cavities/crevices etc.	1.05	Transects walked throughout the forest, spaced approx. 20-25 m apart.	4	4/ha
G	Deciduous Swamp	Was assessed prior to the high level ELC. Primarily Silver Maple/Ash swamp.	1.08	10 pre-mapped random plots were established to assess the woodland; high level ELC was undertaken after and determined that Woodland G was part of the greater deciduous swamp complex (Hinch Swamp PSW). The greater swamp complex would require 35 plots to assess.	0	0/ha
AE	Deciduous Forest/ Coniferous Forest	Primarily a dense white cedar coniferous forest with a pocket of young sugar maple (1.15 ha) dominated forest closer to Centreville Road. Outside of the current developable area but was walked through and very few trees >25 cm DBH, mostly young maples, ironwood.	14.27	n/a	n/a	n/a

Woodland ID	Woodland Type	Description	Size (ha)	# of Plots	# of Cavity Trees Observed	Density (snags/ha)
U	Coniferous Forest/ Deciduous Forest	Primarily a dense white cedar coniferous forest with a small pocket of mature sugar maple (0.18 ha) dominated forest. The small mature forest is just within the NE corner of the current developable area and was walked through using a grid pattern.	2.16	Transects walked throughout the forest, spaced approx. 20-25 m apart.	2	<1/ha
BE	Coniferous Forest/ Deciduous Forest/ Coniferous Woodland/ Mixed Forest	Mix of several ELC communities. The coniferous forest is comprised of dense White Cedar. The survey was focused on the large patch of deciduous forest (28 ha) that contained small inclusions of mixed forest. This deciduous forest site is primarily young Hop Hornbeam and maple with scattered larger trees of Maple, Basswood, and Ash.	586.6	30 pre-mapped random plots were established within the deciduous forest ecosite. A couple of smaller polygons of deciduous forest were walked through with transects but did not contain cavity trees, most trees were young 10-15 cm DBH with very few over 25 cm DBH.	7	9/ha
CV	Coniferous Forest	Dense White Cedar forest; property was walked prior to receiving protocol from MNRF Peterborough. Used 2011 protocol and 2015 ecoregion criteria which doesn't include FOC. Surveying White Cedar FOC for cavities is challenging due to the close proximity of trees and obstructions from branches. The interior of these communities are quite shaded, making it even more difficult to detect cavities in the canopy.	1.54	n/a	n/a	n/a
CK	Coniferous Forest/ Deciduous Forest/ Coniferous Woodland/ Mixed Forest/ Treed Rock Barren	Assessment carried out concurrently with high level ELC so plots were spaced out for the greater woodland community and not focused on individual ecosites. Majority of the t-line area +50 m is covered in dense White Cedar forest, coniferous woodland or treed rock barren. A linear ecosite of maple deciduous forest (3.23 ha) is primarily located in the southeastern portion of the larger woodland. This ecosite contained abundant young maples 10-15 cm DBH with few >25 cm DBH.	1045.81	35 pre-mapped random plots were placed throughout the greater woodland area but only two cavity trees were observed.	2	1/ha



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**SNAG DENSITY SEARCHES
WITHIN THE
LOYALIST SOLAR PROJECT**

FIGURE 2

- | | | |
|---------------|------------------------------|-----------------------------------|
| Primary Route | Preliminary Project Boundary | Woodland with Plot Density Search |
| Route B | 50 m Setback | Woodland with Transect Search |
| Alternate 1 | Watercourse | Woodland |
| Alternate 2 | Water Body | |
| Alternate 4 | Railway | |
| Alternate 5 | | |



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



PROJECT: 163674 STATUS: DRAFT DATE: 6/8/2016