

Environmental Impact Study (EIS) Report

Project Location: 37719 Lake Line Road, Port Stanley, ON

Prepared for:

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Engineers, Scientists, Surveyors.



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1.0 Introduction

MTE has been retained by Below-Me Developments (the Proponent) to complete an Environmental Impact Study (EIS) for the Kettle Creek Subdivision at 37719 Lake Line, Port Stanley in the Municipality of Central Elgin and Elgin County (the Subject Lands; Figure 1) in support of a Draft Plan of the Subdivision and Zoning By-Law amendment. An Issues Scoping Report (ISR) was previously submitted for the Subject Lands and adjacent land (BioLogic, 2015) which included a recommendation for a scoped EIS. During a pre-consultation meeting held with the Proponent, the Township of Central Elgin and Kettle Creek Conservation Authority on April 7, 2021, it was confirmed that an EIS was required as part of the Draft Plan application.

The 12.8 ha Subject Lands consist of an active sod farm and former farmstead as well as forested slopes, which are part of the Elgin County natural heritage system [Figure 1]. A municipal drain, Marr Drain, is located along the southern boundary of the Subject Lands. A 120m study area of Adjacent Lands has been applied to the Subject Lands for the purpose of evaluating contiguous or nearby natural features. The Adjacent Lands include the Lake Line Right-of-way (R.O.W.) to the north, Kettle Creek Golf and Country Club and a Public school to the south, and the River Road R.O.W. to the west. Per the Official Plan of Central Elgin, the Subject Lands have a land use designation of residential in the farmed portion and natural heritage/significant woodland on the forest slopes (Schedule G) and are zoned OS2-29 and OS2-30 (Open Space). The entire Subject Lands are within the area regulated by Kettle Creek Conservation Authority under Ontario Regulation 181/06: Development, Interference with Wetlands and Alterations to Shorelines and Watercourses.

The proposal is to establish 88 housing units (79 single detached, 9 semi-detached) with associated future municipal streets on the Subject Lands, with servicing (water) from a combined sewer in the Carlow Road R.O.W., that is directed to an existing pumping station that ultimately pumps the flows up Lake Line and discharged into the treatment facility on Scotch Line. The proposed Development Area is confined to the existing agricultural portions of the Subject Lands.

Following the pre-consultation meeting held on April 7, 2021, a Terms of Reference was submitted to Central Elgin and Elgin County on August 25, 2021, to confirm the scope of natural heritage field investigations as well as the contents of the EIS report for the Subject Lands. Comments provided by Kevin McClure (Planner, Central Elgin) and Nancy Pasato (Manager of Planning, Elgin County) on August 26, 2021 were incorporated into a revised Terms of Reference which was approved on September 17, 2021 [Appendix A]. This EIS has been prepared with reference to the Municipality of Central Elgin Official Plan policies in Section 3.1.2 and 3.4.2, and Elgin County Official Plan Policies in Section D1.2, specifically, Policy D1.2.8.1 and Appendix B. The EIS will build on the ISR (BioLogic, 2015) and incorporate life science inventories from 2015 and 2021 to document existing natural heritage features and functions on the Subject Property and adjacent lands, evaluate potential impacts, and recommend appropriate avoidance (e.g. setbacks), mitigation and enhancement measures to protect the natural heritage features.

The final EIS has been revised to address comments provided by Southwold Township and the Township of Central Elgin.

2.0 Natural Heritage Policy Overview

The following provincial and municipal legislation and policies were reviewed to inform the evaluation of significant natural heritage features and assessment of potential impacts.

2.1 Planning Act

The Provincial Policy Statement (PPS; MMAH, 2020) was issued under the *Planning Act, 1990* to provide direction to regional and local municipalities regarding planning policy, ensuring that decisions made by planning authorities were consistent with provincial policy. With respect to natural heritage features and resources, the PPS defines seven natural heritage features:

- Significant wetlands and significant coastal wetlands
- Significant woodlands
- Significant valleylands
- Significant wildlife habitat (SWH)
- Significant areas of natural and scientific interest (ANSI's)
- Fish habitat, and,
- Habitat of endangered and threatened species

These features are described in the Natural Heritage Reference Manual (MNR, 2010), a technical document intended to support the PPS which also provides guidance to help assess these natural heritage features. Section 2.1.4 of the PPS states that development and site alteration are not permitted in significant wetlands or significant coastal wetlands in Ecoregion 7E, where the Subject Lands are located. Section 2.1.5 states that development and site alteration shall not be permitted in significant woodlands, significant valleylands, SWH or ANSI's unless it has been demonstrated through an EIS that there will be no negative impacts on the features or their ecological functions. Development and site alteration are not permitted in fish habitat or habitat of endangered or threatened species, except in accordance with provincial and federal legislation.

2.2 Municipality of Central Elgin Official Plan (2013)

The Official Plan of the Municipality of Central Elgin includes policies that guide growth, economic development and the protection of natural heritage features across the municipality. With respect to Natural Heritage (Section 3.1.1), new permitted uses, or expansions/ enlargements to existing uses, buildings or structures within a Natural Heritage designation that require a Planning Act approval may be permitted only if they can be demonstrated through an Environmental Impact Study (EIS) that will demonstrate that there will be no negative impacts to the natural heritage features and/or their ecological functions.

The Subject Lands are designated as Residential in the farmed portions and Natural Heritage/ Significant Woodland on the forest slopes by the Central Elgin Official Plan (Schedule G, 2013). The Adjacent Lands to the south and to the east are also designated as Residential and Natural Heritage (Schedule G, 2013).

2.3 Municipality of Central Elgin, Zoning By-Law (2018)

The Subject Lands are currently designated as OS2-29 and OS2-30 (Open Space) by the Municipality of Central Elgin. This provision applies to lands used or proposed to be used for parks and outdoor recreational purposes and cemeteries where structures are limited. The Adjacent Lands are zoned as Residential (R1).

2.4 County of Elgin Official Plan (2015)

The purpose of the Official Plan of the County of Elgin (Final consolidation, November 2015) is to provide direction and a framework for managing growth and land use decisions within the County through the establishment of a broad, upper tier policy framework that provides guidance to local **MTE Consultants** | 48957-100 | 37719 Lake Line Road Natural Heritage Support | July 29, 2022

municipalities, by implementation of the PPS at the County level, and by facilitating coordination and coordination amongst local municipalities and the County on planning and development issues. Section A4.2 describes the County's strategic objective to protect natural heritage features and areas, and their associated ecological functions. Part D of the Official Plan provides more specific policies to achieve this objective, such as criteria for defining natural heritage significance (e.g. significant woodlands) and identifying how natural heritage features should be considered in the context of development and site alteration. Development and site alteration is not permitted in significant habitat of endangered or threatened species, significant wetlands and significant coastal wetlands (D.1.2.6a)). Development and site alteration is not permitted in significant valleylands, SWH and ANSIs or Adjacent Lands unless it has been demonstrated through an EIS that there will be no negative impacts on the natural features or their ecological functions. Appendix B of the Official Plan provides the County's requirements for an EIS.

Woodlands on the Subject Property are mapped as part of the County's Natural Heritage System on Map Appendix '1' of the Official Plan.

2.5 Kettle Creek Conservation Authority

The Kettle Creek Conservation Authority (KCCA) regulates lands within its watershed under Ontario Regulation 181/06, pursuant to Section 28 of the *Conservation Authorities Act*. The KCCA has jurisdiction over riverine flooding and erosion hazards, wetlands and the surrounding area, and requires that landowners obtain written approval from the Authority prior to undertaking any site alteration or development within the regulation limit.

The entire Subject Lands are within the regulation limit of the Kettle Creek Conservation Authority (KCCA). This regulation limit is associated with the Hazard Area (slope) on the north portion of the Subject Lands.

2.6 Endangered Species Act

The *Endangered Species Act, 2007* protects species listed as threatened, endangered or extirpated in Ontario from killing, harm, harassment or possession, and also protects their habitats from damage or destruction. All species are provided with general habitat protection for areas the species depend on to carry out their life processes, such as reproduction, rearing, hibernation, migration or feeding. Activities that may impact a protected species or its habitat require prior authorization from the Ministry of Environment, Conservation and Parks (MECP), unless the activities are exempt under Ontario Regulation 242/08. The provincial status of species in Ontario is determined by the Committee on the Status of Species at Risk in Ontario (COSSARO) and documented in the Species at Risk in Ontario List (SARO List).

3.0 Natural Heritage Features and Functions

Natural heritage field studies and vegetation community classification completed in 2014, 2015 and 2021 have been used to assess the Subject Lands and the Adjacent Lands for natural heritage significance with respect to the proposed future construction. The following resources were also reviewed for relevant information respecting natural heritage features on or adjacent to the Subject Lands:

- Issues Scoping Report Glover 37719 Lake Line & 320 Carlow Road, Port Stanley, Ontario (BioLogic, 2015)
- Central Elgin Official Plan (2013)
- The Official Plan of the County of Elgin (Consolidated 2015)
- Kettle Creek Conservation Authority Wetland Management Policies
- Land Information Ontario (LIO) mapping (MNRF, 2021a)
- Natural Heritage Information Centre (NHIC) online database (MNRF, 2021b)
- Atlas of the Breeding Birds of Ontario (Cadman et al., 2007)
- Ontario Reptile and Amphibian Atlas (ORAA; Ontario Nature, 2021)
- iNaturalist citizen science database
- eBird citizen science database

3.1 Physiography and Topography

The topography of the Subject Lands is nearly level with a moderate to steep wooded slope along the north and northwest portions of the property (BioLogic, 2015). Soils throughout are associated with modern alluvium consisting of undifferentiated material (gravel, sand, silt, clay, muck) composing side walls and terraces or flood plains of valleys associated with Kettle Creek to the east (BioLogic, 2015). The wooded slope at the north end of the Subject Lands is 27.8m with a gradient range of 0.6H:1V - 1.3H:1V, which is below the factor of safety range, excluding the reinforcement provided by vegetation (EXP, 2017). Previous geotechnical investigations have found evidence of groundwater seepage within TP2 to TP5 below depths ranging between about 1.4m and 2.7m (Trow Associates, 2007).

3.2 Designated Natural Features

The provincially-significant Port Stanley Till Earth Science Area of Natural and Scientific Interest (ANSI) is located directly north of the Subject Lands across Lake Line (LIO, 2014). The closest significant wetland, Hawk Cliff PSW, is over 2 km to the east of the subject lands (MNRF, 2014). Two locally-significant wetlands are located approximately 1 km to the north and north east (Moore Water Gardens and Port Stanley Poison Sumac Swamp). Woodlands on the Subject Property are mapped as part of Central Elgin and Elgin County's Natural Heritage System.

No other designated natural features were identified within 1km of the Subject Lands.

3.3 Species at Risk Records

Previous corresepondence with the Ministry of Natural Resources and Forestry (MNRF) took place to investigate potential Species at Risk within the area of the Subject Lands with records received on June 27, 2014. This background data review was updated in 2021. Data sources used for this updated review included the Species at Risk in Ontario (SARO) List, NHIC, ORAA, and citizen science online databases such as eBird and iNaturalist. Many of these sources display data for a broad area (e.g. by upper-tier municipality, per 10km atlas square) and therefore provide only a general potential for species presence on or near the Subject Lands.

Threatened or Endangered species and their habitats with the potential to be present within 10km of the Subject Lands are listed in Table 1. These species and their habitats are protected under the Endangered Species Act. Habitat for species listed as Special Concern is considered Significant Wildlife Habitat, and is therefore discussed in Section 3.5. The potential for these species or their habitats to be present on the Subject Lands was assessed as part of this EIS using data gathered during field investigations as well as desktop analysis.

Common Name	Scientific Name	ESA (SARO List)	S-rank (NHIC)
Bank Swallow	Riparia riparia	THR	S4B
Barn Swallow	Hirundo rustica	THR	S5B
Bobolink	Dolichonyx oryzivorus	THR	S4B
Chimney Swift	Chaetura pelagica	THR	S4B
Eastern False Rue-anenome	Enemion biternatum	THR	S2
Eastern Meadowlark	Sturnella magna	THR	S4B
Louisiana Waterthrush	Parkesia motacilla	THR	S3B
Red-headed Woodpecker	Melanerpes erythrocephalus	END	S4B
Acadian Flycatcher	Empidonax virescens	END	S2
Eastern Prickly-pear Cactus	Opuntia cespitosa	END	S3
Butternut	Juglans cinerea	END	S2?
Spiny Softshell	Apalone spinifera	END	S2
Little Brown Myotis	Myotis lucifugus	END	S3
Northern Myotis	Myotis septentrionalis	END	S3
Eastern Small-footed Myotis	Myotis leibii	END	S2S3
Tri-coloured Myotis	Perimyotis subflavus	END	S3?

3.4 Field Investigations

Field investigations were previously completed as part of the ISR (BioLogic, 2015) in 2014 and 2015. Additional surveys targeting the Subject Lands were undertaken between May and October, 2021 to update vegetation community classification, inventory plant species present within, document bird species breeding on or adjacent to the Subject Lands, identify potential habitat for Species at Risk [from Table 1], and record incidental observations of wildlife on the Subject Lands. These investigations were completed to support the assessment of potential impacts to natural heritage features and species at risk in the context of provincial and municipal policy. A summary of field investigations undertaken as part of the ISR (BioLogic, 2105) and current EIS is provided in Table 2.

Several field investigations were excluded from the 2021 field program based on the findings of the ISR (BioLogic, 2015) and additional unpublished data gathered for the Subject Lands. Amphibian surveys were completed on the Subject Lands in 2015 (BioLogic, unpublished data). Habitat suitable for amphibian breeding (i.e. shallow standing water) was not observed within the wetland community on the Subject Lands, therefore these surveys were not proposed for 2021. Habitat features that would concentrate snake species (e.g. candidate hibernaculum) were not documented

in the ISR and there are no records of snake Species at Risk in the vicinity of the Subject Lands, therefore reptile surveys were not proposed. Migratory bird surveys were also not proposed as the

development has been designed to avoid direct impacts to the woodland and stopover habitat for migratory waterfowl or shorebirds is not present on the site based ELC and the findings of the ISR. The Significant Wildlife Habitat Mitigation Support Tool (MNR, 2015) recommends avoidance of woodlands but no setback as the key mitigation measure for migratory landbirds, therefore targeted surveys would not inform the assessment of impacts.

Field Investigation	Date	Personnel (BioLogic/MTE)
Ecological Land Classification (preliminary)	May 23, 2014	Dylan Morse
Ecological Land Classification (update)	July 24, 2014	Will Huys, certified to complete ELC
Butternut Health Assessment	July 27, 2014	Will Huys, BHA #222
Butternut Health Assessment	October 1, 2015	Will Huys, BHA #222
Auditory Amphibian Breeding Survey	May 8, 2015	Will Huys
Auditory Amphibian Breeding Survey	July 5, 2015	Will Huys
Spring Botanical Inventory	June 15, 2015	Will Huys
Summer Botanical Inventory	August 17, 2015	Will Huys
Fall Botanical Inventory	October 15, 2015	Will Huys
Breeding Bird Survey	June 15, 2015	Will Huys
Breeding Bird Survey	June 29, 2015	Will Huys
Spring Botanical Inventory	June 3, 2021	Will Huys
Summer Botanical Inventory	August 17, 2021	Elise Roth
Breeding Bird Survey	June 3, 2021	Will Huys
Breeding Bird Survey	June 22, 2021	Will Huys
Fall Botanical Inventory	October 14, 2021	Will Huys

3.4.1 Vegetation Communities

Ecological Lands Classification (ELC) surveys were conducted in 2014 and updated in 2021. A preliminary evaluation of vegetation within the Subject Lands was conducted by Dylan Morse, on May 23, 2014 and updated and confirmed by Will Huys on July 29, 2014. Surveys were updated in 2021 on June 3 and October 14, 2021 by Will Huys, certified to complete ELC in Ontario, using protocols outlined in the Ecological Land Classification System for Southern Ontario (Lee et al., 1998). The surveys were conducted within the area of the Subject Lands. Adjacent vegetation communities were not investigated in detail.

The vegetation surrounding the Subject Lands is predominantly forested area to the west of the Subject Lands, with residential land uses to the north and east and a golf course to the south. The golf course is also owned by the Proponent and were previously investigated in 2014 & 2015 as

part of the ISR (BioLogic, 2015). These additional lands are not currently proposed for development; therefore, they were not investigated in detail in 2021.

The Subject Lands are comprised of two primary natural vegetation communities with cultural inclusions, as well as an Agricultural and an Anthropogenic Disturbed Area (former farmstead) (Figure 2):

- Community 1 is classified as a Dry-Fresh Sugar Maple-Beech Deciduous Forest (FOD5-2). Sugar Maple is the dominant canopy species in this forest, along with Beech. The understorey consists of Dogwood, Sumac and Multiflora Rose. The ground layer consists of species such as Horsetail, Garlic Mustard and Skunk Cabbage. There are also two inclusions associated with Community 1. Inclusion 1a is a Mineral Cultural Thicket Ecosite (CUT1) which has a dominant canopy species consisting of Ash and Black Walnut and a sub-canopy consisting of Buckthorn, Hawthorn, Sumac and Dogwood. The understorey consists of Buckthorn, Hawthorn, Multiflora Rose and Honeysuckle. The ground layer consists of Horsetail, Goldenrod, Garlic Mustard and Mayapple. Inclusion 1b is also a Mineral Cultural Thicket Ecosite (CUT1).
- Community 2 is classified as an Organic Thicket Swamp (SWT3). White Ash and White Willow are the dominant canopy species in this seepage-fed thicket swamp. The understorey consists of Common Buckthorn, Dotted Hawthorn, Multiflora Rose and Common Elderberry. The ground layer consists of Skunk Cabbage, Spotted Joe-pye-weed and Common Boneset.

The agricultural portion of the Subject Lands is currently used for sod production. The former farmstead buildings in polygon A1 (Figure 2) were removed in 2017 due to poor or hazardous condition following the partial collapse of the barn into the silo.

3.4.2 Flora Inventory

Seasonal floristic surveys were undertaken in 2015 as well as on June 3, 2021 by Will Huys, August 17, 2021 by Elise Roth, and October 14, 2021 by Will Huys. The status of all plant species is based on the provincial NHIC database (MNRF, 2020) and the list of vascular plants for the Carolinian Zone (Oldham, 2017).

A total of 121 vascular plant species were recorded on the Subject Lands, of which 70 or 57.85% are native to Ontario and 51 or 42.15% are introduced (Appendix B-1). Five Butternut trees were located on the upper portion of the wooded slope, approximately 65m north of the Development Area. All trees were assessed as Category 1, non-retainable, in 2015 following the provincial Butternut Health Assessment protocol with results submitted to MNRF. Two locally-rare plant species, Swamp Agrimony and Purple Joe Pye Weed, were observed within the SWT3 community. No other plant Species at Risk and no rare plants were observed on the Subject Lands during site investigations.

3.4.3 Breeding Bird Surveys

Breeding bird surveys were conducted by Will Huys on the Subject Lands on June 15th and 29th, 2015, and June 3rd and 22nd, 2021. Surveys in 2021 consisted of 10-minute point counts at 2 stations along the edge of Communities 1 and 2 accompanied by an area search along the perimeter of the Development Area. The highest level of breeding evidence was recorded for each species using codes from the Ontario Breeding Bird Atlas (Cadman et al. 2007). Surveys began within half an hour of sunrise and were completed by 10am.

A total of 15 species were observed within the Subject Lands during breeding bird surveys. All species observed were secure (S5) or apparently secure (S4) breeding species in Ontario. A complete list of bird species observed is provided in Appendix B-2.

No Protected Species were detected during the 2021 breeding bird surveys. However, field investigations in 2015 identified 40-45 active Barn Swallow [THR] nests within the barn located in polygon A1 on the westerly portion of the Subject Lands. In 2017, three corners of the barn collapsed causing the barn to lean onto the silo, and compromising the integrity of both structures. Consequently, it is estimated that approximately 75% of the suitable nesting habitat for Barn Swallow was lost due to this unintended event. The remainder of the barn and adjacent structures within the farmstead were demolished to remove the hazard. Compensation for the removal of a portion (25%) of the original Barn Swallow [THR] habitat will be implemented in accordance with Ontario Regulation 242.08 Section 23.5 of the ESA.

3.4.4 Mammal Habitat

The Subject Lands contain a mature deciduous woodland which is assumed to provide suitable maternity roosting habitat for bats. Targeted surveys were not undertaken as the development has been designed to avoid direct impacts to the woodland.

No dens of fur-bearing mammals were observed on the Subject Lands.

3.4.5 Incidental Wildlife Observations

Four mammals and five invertebrates were observed incidentally on the Subject Lands during other targeted field investigations. These species were: Gray Squirrel, Raccoon, White-tailed Deer, Striped Skunk, Black Saddlebags, Common White-tail, Little Bluet, Cabbage White and Monarch. Monarch is listed as Special Concern on the SARO List, and Endangered on Schedule 1 of the federal Species at Risk Act.

3.5 Significant Wildlife Habitat

MNRF Significant Wildlife Habitat (SWH) Criteria Schedules for Ecoregion 7E (January 2015) use ELC ecosite codes and habitat criteria (eg. Size of ELC polygon, location of ELC polygon) to identify candidate significant wildlife habitat. A complete assessment of candidate SWH is provided in Appendix B-3. Where SWH has been confirmed through results of targeted field investigations (e.g. confirmed habitat use) this has been noted below.

3.5.1 Subject Lands

Candidate SWH was identified within the Subject Lands, associated with the woodland and swamp thicket (Communities 1 and 2), as follows:

Seasonal Concentration of Animals

- Bat Maternity Colonies (candidate) in woodland community FOD6
- Migratory Butterfly Stopover Areas (candidate) in cultural communities CUT1 and along the edge of woodland community FOD6
- Land Bird Migratory Stopover Areas (candidate) in woodland community FOD6

Specialized Habitats of Wildlife

• Seeps and springs (candidate) in swamp thicket SWT3

3.5.2 Adjacent Lands (within 120m of the Subject Lands)

Candidate SWH was identified within the Adjacent Lands, associated with the golf course area and the surrounding woodlands as follows:

Seasonal Concentration of Animals

- Bat Maternity Colonies (candidate) in woodland community FOD6
- Migratory Butterfly Stopover Areas (candidate) in cultural communities and along the edge of woodland community FOD6
- Land Bird Migratory Stopover Areas (candidate) in woodland community FOD6

Habitats for Species of Conservation Concern

 Special Concern and Rare Wildlife Species: Eastern Wood-pewee (candidate), Wood Thrush (candidate) and Broad Beech Fern (candidate) in adjacent woodlands

3.6 Habitat for Threatened and Endangered Species

Habitat potential for Protected Species on the Subject Lands was evaluated using a combination of desktop review, satellite photo interpretation and results of field investigations.

Suitable habitat is present within the Subject Lands for the following Threatened or Endangered Species:

Butternut [THR]: There were five confirmed Butternut [THR] trees identified within woodland community FOD6 on the north and northwest sides of the Subject Lands, all of which were assessed as non-retainable and are greater than 25m from the Development Area.

Little Brown Myotis, Northern Myotis, and Tri-coloured Bat [END]: Potential tree roosting habitat for Endangered bats is assumed to be present in woodland community FOD6 on the Subject Lands outside of the Development Area.

Barn Swallow [THR]: Forty Barn Swallow nests were observed in 2015 within the barn in community A1 on the Subject Lands. Due to the age and disrepair of the structure, three-quarters of the nest sites are assumed to have been removed when three corners of the building collapsed in 2017. Compensation for the removal of the remaining suitable nesting habitat (25% or 10 nests) will be implemented in accordance with Ontario Regulation 242.08 Section 23.5 of the ESA.

The remaining Threatened or Endangered species listed in Table 1 are considered absent from the Subject Lands due to lack of suitable habitat or an absence of species' observations during targeted surveys (e.g. breeding bird surveys, botanical inventory).

4.0 Natural Heritage Features Summary

A summary of significant features and functions identified on the Subject Lands and Adjacent Lands, in accordance with provincial and municipal policy, is provided in Table 3, below.

Policy Category	Policy-protected Natural Heritage Feature	Description of Feature on the Subject Lands and Adjacent Lands (120m)
	Significant Wetlands or Significant Coastal Wetlands	 No provincially-significant wetlands or coastal wetlands are located within 1km of the Subject Lands
	Significant Woodlands	 Significant Woodland is present within the north and northwest area of the Subject Lands
	Significant Valleyland	 Significant Valleyland has not been identified on the Subject Lands or Adjacent Lands. No watercourse or valley is present on the Subject Lands or Adjacent Lands.
Provincial Policy Statement, Elgin County Official Plan and Municipality of Central Elgin Official Plan	Significant Wildlife Habitat (SWH)	 Candidate SWH is present on the Subject Lands for: Bat Maternity Colonies (candidate) in woodland community FOD6 Migratory Butterfly Stopover Areas (candidate) in cultural communities CUT1 and along the edge of woodland community FOD6 Land Bird Migratory Stopover Areas (candidate) in woodland community FOD6 Land Bird Migratory Stopover Areas (candidate) in woodland community FOD6 Seeps and springs (candidate) in swamp thicket SWT3 Additional candidate SWH is present on the Adjacent Lands for: Special Concern species Eastern Wood-Pewee, Wood Thrush and Broad Beech Fern in woodlands beyond the Subject Lands The Port Stanley Till earth science ANSI is present on Adjacent Lands,
	and Scientific Interest	north of the property limit and across Lake Line
	Fish Habitat Habitat of Threatened and Endangered Species	 Fish habitat is absent from the Subject Lands and Adjacent Lands 5 Butternut trees [THR] confirmed within the Subject Lands, however these are assessed as non-retainable and are located > 25m from the Development Area. Barn Swallow (THR) nests confirmed in a barn within the Subject Lands in 2015. Potential habitat for three Endangered bat species is assumed to be present within woodlands on the Subject Lands and Adjacent Lands outside of the Development Area
KCCA Regulations	Wetlands	 The SWT3 community on the Subject Lands does not meet the definition of a regulated wetland per the <i>Conservation Authorities Act, 1990</i> as it lacks a connection with a surface watercourse. Lands periodically soaked and used for agricultural purposes and no longer exhibit wetland characteristics are also excluded from the definition of a wetland per the <i>Conservation Authorities Act, 1990</i>
	Hazard Lands	• The slope in the north of the Subject Lands may be regulated as a hazard feature. The slope stability analysis (EXP, 2022) provides recommendations for hazard mitigation.

Table 3: Natural Heritage Features or Functions of the Subject Lands

5.0 Project Description

The proposal is to establish 88 housing units (79 single detached, 9 semi-detached) with associated future municipal streets on the Subject Lands. Sanitary discharge will be directed to an upgraded sewer pipe connecting to a combined sewer in the Carlow Road R.O.W. that conveys flows to an existing pumping station. The pumping station has been confirmed by the Municipality to have sufficient capacity for additional flows, which are pumped up Lake Line and ultimately discharged into a treatment facility on Scotch Line. Water servicing will be obtained from an existing watermain in the Lake Line R.O.W., through a new 150 mm diameter connection.

Under pre-development conditions there are no storm sewers on site. As part of the development, a storm sewer system will be installed to collect and convey minor runoff from the Subject Lands to a proposed dry stormwater management (SWM) pond located southeast of the site. Minor storm (5-year) and major storm (100-year) runoff will be conveyed to the same SWM pond by site grading. A portion of Marr Drain will be relocated to the servicing easement located behind lots 47-53. The proposed SWM pond will discharged through an oil and grit separator for quality control to the downstream, open channel portion of Marr Drain.

Basement construction is not recommended due to high groundwater levels and soil conditions. Stiffened slab-on-grade construction and foundation pre-loading are recommended as part of the design and construction of the residential homes (Trow, 2007).

A 6m development setback from the toe of the slope will be implemented in order to comply with the Erosion Hazard Limit (EXP, 2022) and provide a buffer to the Significant Woodland. Within this setback, a 2m wide walking trail with a permeable surface is proposed which will be located between the development area and the woodland.

An overlay of the proposed development on the natural heritage features of the Subject Lands is provided in Figure 5.

6.0 Potential Impacts and Mitigation Recommendations

Based on the completed site investigations and the assessment of significance, the Subject Lands contain Significant Woodland, have candidate Significant Wildlife Habitat and provide habitat for Butternut [END], Barn Swallow [THR] and may provided habitat for three Endangered bat species. An earth science ANSI, Port Stanley Till, is present on the Adjacent Lands to the north. In accordance with relevant municipal policy, potential direct and indirect impacts to these features must be addressed through avoidance, mitigation or compensation measures.

6.1 Significant Woodland & Other Vegetation

Communities 1 and 2 located on the northern edge of the Subject Lands are part of a Significant Woodland, as defined by the Municipality of Central Elgin Natural Heritage System. A setback of 6 m from the dripline of the Significant Woodland to the rear lot lines, which is generally coincident with the Erosion Hazard Limit (6m beyond toe of slope; EXP, 2022), is recommended to protect the woodland feature and its functions (Figure 5). This setback will be naturalized, in part, through planting of native species. The proposed 2m wide walking trail within the buffer should be paved with a permeable surface and located outside the dripline of the woodland and as close to the rear lot lines as practical. Trail development within natural heritage buffers is supported in other jurisdictions, including the City of London as documented in the London Plan and updated Environmental Management Guidelines (City of London, 2021). No negative impact to the Significant Woodland is anticipated as a result of trail development within the buffer, provided the recommended mitigation measures are implemented.

The proposed development will result in the removal of a 0.25 ha cultural thicket (CUT, Community 1a) at the entrance to the community. This community does not contain rare or significant species or habitat, and is considered to be less sensitive to disturbance. The thicket's function for general wildlife habitat (e.g. cover) can be replicated through the planting of native species of similar structure within the Significant Woodland buffer. Naturalization of the buffer, where possible, will also increase local diversity of native species and enhance the Subject Lands through the management of non-native species, such as European Buckthorn.

The following mitigation and compensation measures are recommended to avoid negative impacts to this natural heritage feature:

Recommendation 1: In order to protect the woodland feature and its functions, the development limit should be set back 6m from the dripline of the Significant Woodland. This 6m setback is generally coincident with the Erosion Hazard Limit (6m beyond toe of slope; EXP, 2022; Figure 5).

Recommendation 2: Flag the limits of the Significant Woodland and vegetation communities to be retained prior to construction to avoid inadvertent encroachment.

Recommendation 3: Incorporate naturalized plantings with native tree and shrub species in the setback area between the proposed development (e.g. walking trail) and the Significant Woodland to provide a natural buffer to the woodland.

Recommendation 4: Invasive plant species that are identified along the woodland edge or within the proposed naturalization area should be removed and best management practices for limiting the spread of floral invasive species should be followed during development.

Recommendation 5: Areas of exposed soil following construction should be stabilized with vegetation or other suitable ground cover, avoiding plant species with the potential to invade the Significant Woodland. For information on invasive, non-native plant species in southwestern Ontario refer to: <u>http://thamesriver.on.ca/wp-content/uploads/InvasiveSpecies/Invasive-plants.pdf</u>

Recommendation 6: The proposed 2m wide walking trail within the buffer should be paved with a permeable surface and located outside the dripline of the woodland and as close to the rear lot lines as practical.

6.2 Significant Wildlife Habitat

The following candidate (unconfirmed) SWH is present or assumed to be present on the Subject Lands or Adjacent Lands based on woodland size and characteristics.

- Bat Maternity Colonies (candidate) in woodland community FOD6
- Migratory Butterfly Stopover Areas (candidate) in cultural communities CUT1 and along the edge of woodland community FOD6
- Land Bird Migratory Stopover Areas (candidate) in woodland community FOD6
- Seeps and springs (candidate) in swamp thicket SWT3
- Habitat for Special Concern or Rare Wildlife Species: Eastern Wood-pewee (candidate), Wood Thrush (candidate) and Broad Beech Fern (candidate) in woodlands on the Adjacent Lands

All SWH is associated with the Significant Woodland or woodland edge located in the north of the Subject Lands, outside the Development Area. Direct impacts to SWH in the adjacent woodland will be avoided as the Development Area on the Subject Lands will be set back a minimum of 6m from the woodland edge (EXP, 2022).

Wildlife may also experience disturbance during construction when crossing roads or moving through active construction areas. Timing restrictions on vegetation removal are recommended to avoid disturbance to wildlife that may be using natural areas on the site, including breeding birds and bats. Nesting migratory birds are protected under the *Migratory Birds Convention Act* (MBCA), *1994*. No work is permitted to proceed that would result in the destruction of active nests (nests with eggs or young birds), or the wounding or killing of birds, of species protected under the Migratory Birds Convention Act, 1994 and/or Regulations under that Act. Some MBCA-protected species, such as Killdeer, may make use of un-maintained areas as they frequently make nests on the ground in construction sites and other disturbed areas.

Mitigation measures to avoid impacts to wildlife and wildlife habitat are recommended as follows:

Recommendation 7: Avoid vegetation clearing and site disturbance during the migratory bird breeding season (April to August 31) to ensure that no active nests will be removed or disturbed, in accordance with the Migratory Birds Convention Act and/or Regulations under that Act. If works are proposed within the breeding season, prior to any vegetation removal or ground disturbance, the area should be checked for nesting birds by a qualified professional. If there are any nesting birds, works within the nesting area should not proceed until after August 31 or the nest is confirmed inactive.

Recommendation 8: Where select tree removal is proposed, outside the Significant Woodland, removal of trees (> 10cm DBH) should occur outside the bat maternity roost period, which is approximately May 1 to September 31. This avoidance measure includes dead standing trees.

Recommendation 9: If an animal enters the work site, work at that location will stop and the animal should be permitted to leave un-harassed. If there are repeat observations of wildlife in the work area, barrier fencing (e.g. silt fence) may be used to direct wildlife away from active construction and toward natural areas.

6.3 Areas of Natural and Scientific Interest (ANSI)

The provincially-significant Port Stanley Till Earth Science Area of Natural and Scientific Interest (ANSI) is located directly north of the Subject Lands, across Lake Line (LIO, 2014). The ANSI designation for this area falls under the category of an Earth Science ANSI that is related to a geological formation. The Natural Heritage Reference Manual for the PPS (MNR, 2010) notes that appropriate land uses adjacent to an Earth Science ANSI are those that conserve topography and other geologically-defined features for which the area was identified. The proposed development

will conserve the topography on the Subject Lands and will have no direct impacts to the adjacent Earth Sciences ANSI.

6.4 Habitat of Endangered or Threatened Species

Based on the review of background data sources (Table 1) and results of field investigations, there is potentially suitable habitat for Bobolink [THR] and Eastern Meadowlark [THR] and confirmed habitat for Butternut [THR]. There is also evidence that the Subject Lands once supported Barn Swallow [THR] in the barn that was removed, partly due to natural causes. Potential habitat is also present, but unconfirmed, on the Adjacent Lands. Based on this, it is our opinion that the proposed development will avoid impacts to species protected under the ESA (2007). Mitigation measures for wildlife habitat are recommended, as noted, with the following additions:

Recommendation 10: Any observation of a Protected Species should be reported to MECP. Protected Species should not be handled, harassed or moved unless they are in immediate danger.

Recommendation 11: Barn Swallow [THR] nests were found within the previously existing structure during general field investigations in 2015. It is recommended that the project will be registered with the MNRF and compensation will be implemented as required by Section 23.5 of Ontario Regulation 242/08. In accordance with the rules in this regulation, the Proponent will install artificial Barn Swallow habitat structures under the direction of a qualified biologist. As three-quarters of the barn collapsed due to structural instability, compensation for the removal of one-quarter of the remaining nest sites (10 nests) is recommended.

The compensation structure(s) must provide suitable conditions for Barn Swallow nesting by providing horizontal ledges or rough vertical surfaces with a sheltered overhang, in a location that minimizes predation, and within an area that allows the Barn Swallows to enter and exit nests freely and is capable of providing long term habitat. The amount of habitat provided by the structure must also provide a greater amount of habitat than the amount that was lost in the original building or structure. Monitoring of use of the created habitat will be completed for at least three years, and a Barn Swallow Mitigation and Restoration Record will be kept on file by the Proponent.

6.5 Groundwater and Stormwater Management

The following section summarizes potential effects and recommendations related to dewatering, stormwater management and sediment and erosion control, as described in the:

- Functional Servicing Report for Kettle Creek Subdivision (SBM, 2021), and
- Preliminary Geotechnical Investigation, Proposed Residential Development, 37719 Lake Line, Port Stanley, Ontario (Trow Associates Inc., 2007)

The site has been designed to accommodate excess overland flows during minor and major storm events, using a combination of site grading, swales, rear-yard catch basins and construction of a SWM pond. Sufficient storage has been provided in the SWM pond to meet the SWM objectives for the site.

Recommendation 12: Homeowners will be provided a Homeowner's Information Package by SBM regarding the SWM function of swales and rear-yard catch basins to encourage regular maintenance and ensure proper function of surface water drainage systems.

Recommendation 13: Due to the presence of shallow groundwater and soil conditions, foundation construction for the single family homes is recommended to be pre-loaded, stiffened slab-on-grade. Localized base soil improvements may be required in wet, silty soils, such as the addition of crushed stone bedding with a geotextile.

Recommendation 14: Groundwater is expected in service trench excavations 2m deep or greater, but can likely be managed using conventional pumping techniques. Where the groundwater removal rate exceeds 50,000 L per day a Permit to Take Water must be obtained from the Ministry of Environment, Conservation and Parks.

6.6 Indirect Impacts

Natural heritage features may also experience indirect effects during construction, such as sedimentation and erosion. Additional indirect impacts on natural features will be mitigated through the implementation of standard environmental protection measures, discussed below.

Recommendation 15: [Derived from Functional Servicing Report for Kettle Creek Subdivision (SBM, 2021)] Sediment and erosion control measures have been developed to alleviate the off-site migration of sediments by incorporation of various best management practices and control measures. Such controls may include but are not limited to silt fencing, silt sacks for inlet grate protection (catch basins, and catch basin maintenance holes), tree preservation fencing and erosion control blanket treatment of significant fill/cut slopes. Suitable precautions should be undertaken in maintaining and monitoring these controls during the construction phase. The control measures to be implemented on site should include:

- Protect all exposed surfaces and control all runoff during construction;
- Maintain erosion control measures during construction;
- All collected sediment to be disposed of at an approved location;
- Minimize area disturbed during construction;
- All dewatering to be disposed of in an approved sedimentation basin;
- Protect all catch basins, maintenance holes and pipe ends from sediment intrusion with geotextile fabric (Terrafix 270R), silt sacks, or approved equal;
- Keep all sumps clean during construction;
- Prevent wind-blown dust;
- Straw bales to be used in localized areas as directed by the engineer during construction for works which are in or adjacent to flood lines, fill lines and hazardous slopes;
- Straw bales to be terminated by rounding bales to contain and filter runoff;
- Contractor to supply sediment erosion control measures and emergency plan (including emergency contacts) in case of SEC measures failure, extreme weather conditions, or spills. Any spills are to be reported to the MECP at 1-866-6638477 toll free;
- Sediment and Erosion Control measures shall be repaired without delay by the owner's contractor as instructed by the contract administrator/engineer at no expense to the owner
- On-site sediment and erosion control measures are to be reviewed and modified to meet the changing site;
- Sediment and Erosion Control measures are to be inspected weekly or following significant rainfall
- events;
- Obtain approval from the governing Conservation Authority prior to construction for works which are in, or adjacent to flood lines, fill lines and hazardous slopes

All of the above notes and any sediment and erosion control measures are at the minimum to be in accordance with the ministry of natural resources guidelines on sediment and erosion control for urban construction sites. Sediment and erosion control measures to be removed at completion of project (following completion of base asphalt and sod). Sediment and erosion control details and notes have been included with the Site Engineering design (Sheet 3).

Recommendation 16: Store hazardous materials away from sensitive natural features. Equipment refueling should occur a minimum of 30m away from natural features.

Recommendation 17: All disturbed areas should be re-seeded as soon as possible to maximize erosion protection and to minimize the establishment of invasive species which may spread to the adjacent Significant Woodland.

Recommendation 18: Sediment and erosion control fencing should not be removed until adequate re-vegetation and site stabilization has occurred. Additional re-vegetation plantings and/or more time for vegetation to establish may be required; however two growing seasons are typically sufficient to stabilize most sites.

Recommendation 19: Soil stockpiles should be established on the tableland in locations where natural drainage is away from the valleyland and associated wetlands. If this is not possible, and there is a possibility of any stock pile slumping and moving toward sensitive natural features, these stockpiles should be protected with robust sediment and erosion control. Access to the stockpile should be confined to the up-gradient side. The stockpile locations should be reviewed at detailed design.

Recommendation 20: Regular cleanup of the Subject Lands must be completed during construction and post-construction to ensure the adjacent natural heritage features are not degraded.

7.0 Conclusion

MTE has evaluated the proposal to establish 88 housing units on the Subject Lands and determined that the potential impacts to natural heritage features on Adjacent Lands have been avoided and/or mitigated with the recommendations herein and in the slope stability report (EXP, 2022). Provided the above recommendations for mitigation are followed during all stages of proposed construction, no significant impacts to the adjacent natural heritage features are expected. MTE seeks comments from the Municipality of Central Elgin, Elgin County and KCCA concerning the contents of this report. Formal comments may be submitted on behalf of the client to MTE. Should any clarification, questions, or additional materials be needed as part of the review of this report, do not hesitate to contact us.

All of which is respectfully submitted,

MTE Consultants Inc.

Victoria Schveighardt, M.E.S. Biologist 519-204-6510 ext. 2230 vschveighardt@mte85.com Melissa Cameron, M.Sc., M.LA., OALA Manager, Ecology 519-204-6510 ext. 2263 mcameron@mte85.com

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8.0 References

- Biologic. 2015. Issues Scoping Report Glover 37719 Lake Line & 320 Carlow Road, Port Stanley, Ontario.
- Cadman et al. 2007. Atlas of Breeding Birds of Ontario
- AECOM. 2021, City of London Environmental Management Guidelines.
- EXP. 2017. Slope Assessment, Starthroy Turf Farm Ltd. Kettle Creek Golf and Country Club Development. Project Number LON-0013222-SA.
- EXP. 2022. Slope Assessment, Strathroy Turf Farm Ltd. Proposed Kettle Creek Residential Development. Project Number LON-22006266-A0
- Lee, H.T., W.D. Bakowsky, J. Riley, J. Bowles, M. Puddister, P. Uhlig, and S. McMurray. 1998. Ecological Land Classification for Southern Ontario: First Approximation and its Application. Ontario Ministry of Natural Resources, Southcentral Science Section, Science Development and Transfer Branch. Field Guide FG
- Ministry of Natural Resources and Forestry (MNRF). 2017. Survey Protocol for Species at Risk within Treed Habitats: Little Brown Myotis, Northern Myotis & Tri-coloured Bat. April 2017. 12 pp.
- Ministry of Natural Resources and Forestry (MNRF). 2020. Natural Heritage Information Centre (NHIC) Online Database. Retrieved from https://www.ontario.ca/page/natural-heritageinformation-centre
- Ministry of Natural Resources and Forestry (MNRF). 2021. Land Information Ontario Mapping. Retrieved from https://geohub.lio.gov.on.ca/
- Oldham, Michael J. 2017. List of Vascular Plants of Ontario's Carolinian Zone (Ecoregion 7E). Carolinian Canada and Ontario Ministry of Natural Resources and Forestry. Peterborough, ON. 132 pp.
- Ontario Ministry of Municipal Affairs and Housing (MMAH). 2020. Provincial Policy Statement. Ontario Ministry of Municipal Affairs, Toronto, Ontario. 50 pp.
- Ontario Ministry of Natural Resources (MNR), 2010. Natural Heritage Reference Manual for Natural Heritage Policies the Provincial Policy Statement, 2005. April 2010 Toronto, Ontario.
- Ontario Ministry of Natural Resources and Forestry. 2015. Significant Wildlife Habitat Criterial Schedule B Ecoregion 7E. 40pp. January 2015.
- Trow Associates. 2007. Preliminary Geotechnicial Investigation Proposed Residential Development 37719 Lake Line Port Stanley, Ontario

Figures





Figure 1: Site Location (Elgin County Mapping, 2015)



0 1,000 Scale 1:50,000 Key Plan

* Locations are approximate and should be verified by survey where necessary. Print on 11X17, Landscape Orientation 0

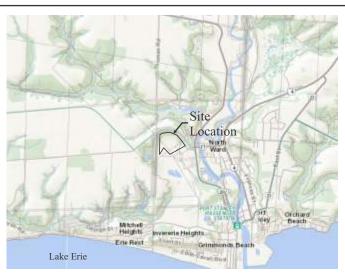
Scale 1:8000 July 2022







Figure 2: Vegetation Communities (Elgin County Mapping, 2015)



0 1,000 Scale 1:50,000 Key Plan

Legend

A - Agricultural
A1 - Anthropogenic Disturbed Area
1 FOD6 Fresh-Moist Sugar Maple Deciduous Forest (2.8ha)
1a CUT1 Mineral Cultural Thicket Ecosite (0.3ha)
2 SWT3 Organic Thicket Swamp (seepage fed) (0.5ha)

Significant WoodlandCategory 1 Butternut

* Locations are approximate and should be verified by survey where necessary. Print on 11X17, Landscape Orientation 0 40

Scale 1:2000 July 2022





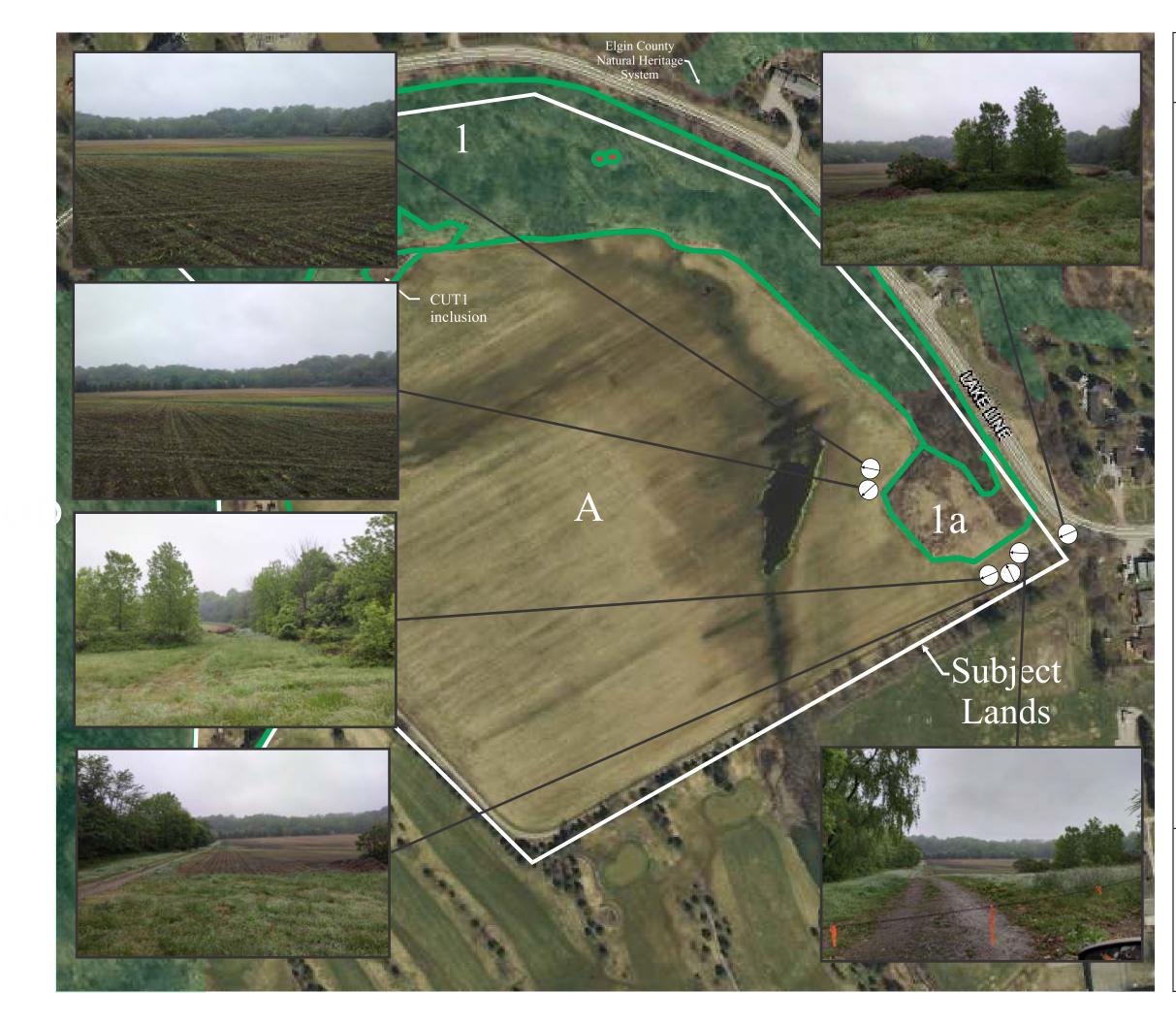


Figure 3: Site Photos (Elgin County Mapping, 2015)



0 1,000 Scale 1:50,000 Key Plan

Legend

A - Agricultural
A1 - Anthropogenic Disturbed Area
1 FOD6 Fresh-Moist Sugar Maple Deciduous Forest (2.8ha)
1a CUT1 Mineral Cultural Thicket Ecosite (0.3ha)
2 SWT3 Organic Thicket Swamp (seepage fed) (0.5ha)

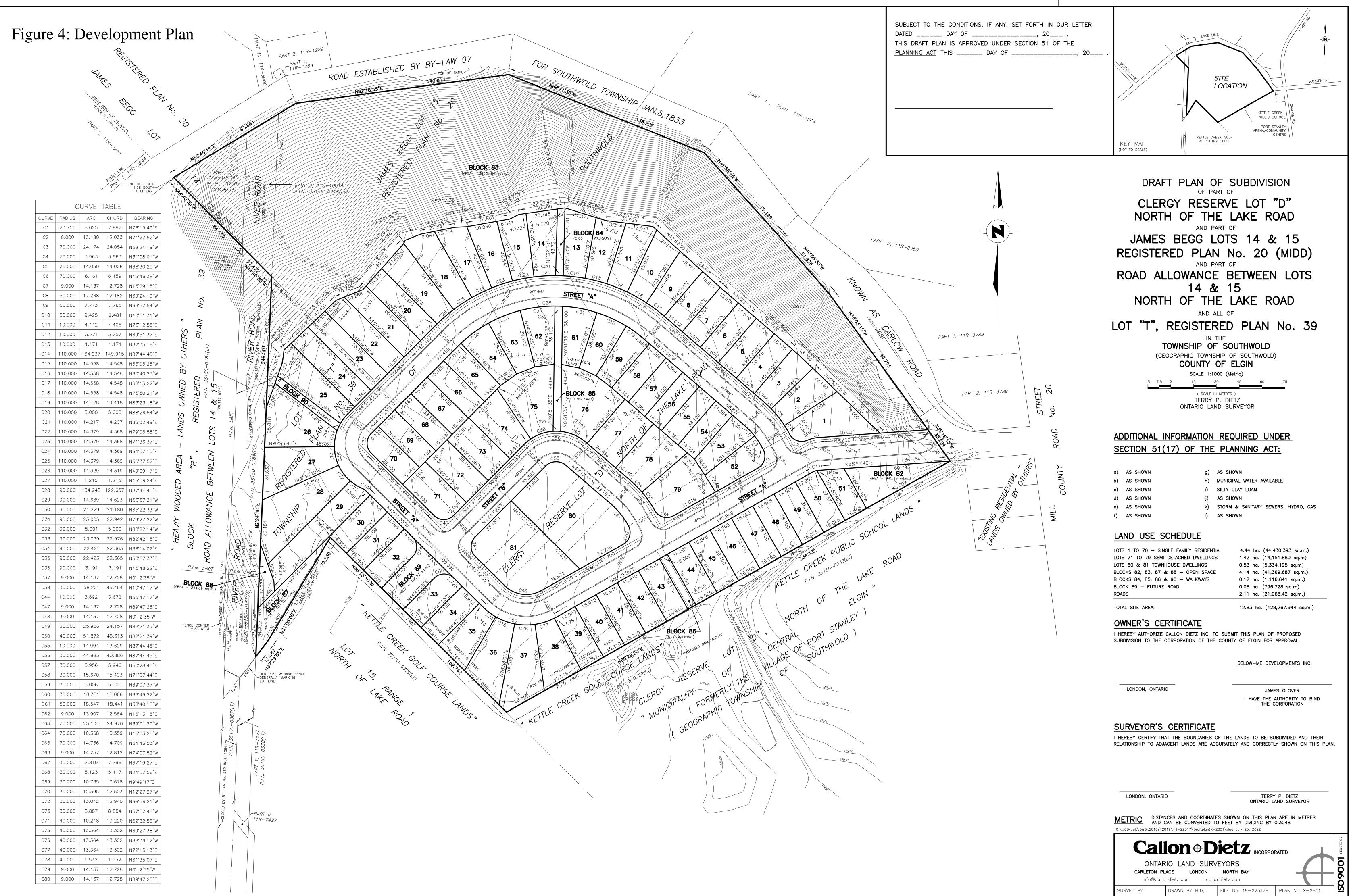
Significant WoodlandCategory 1 Butternut

* Locations are approximate and should be verified by survey where necessary. Print on 11X17, Landscape Orientation 0

Scale 1:2000 July 2022







А

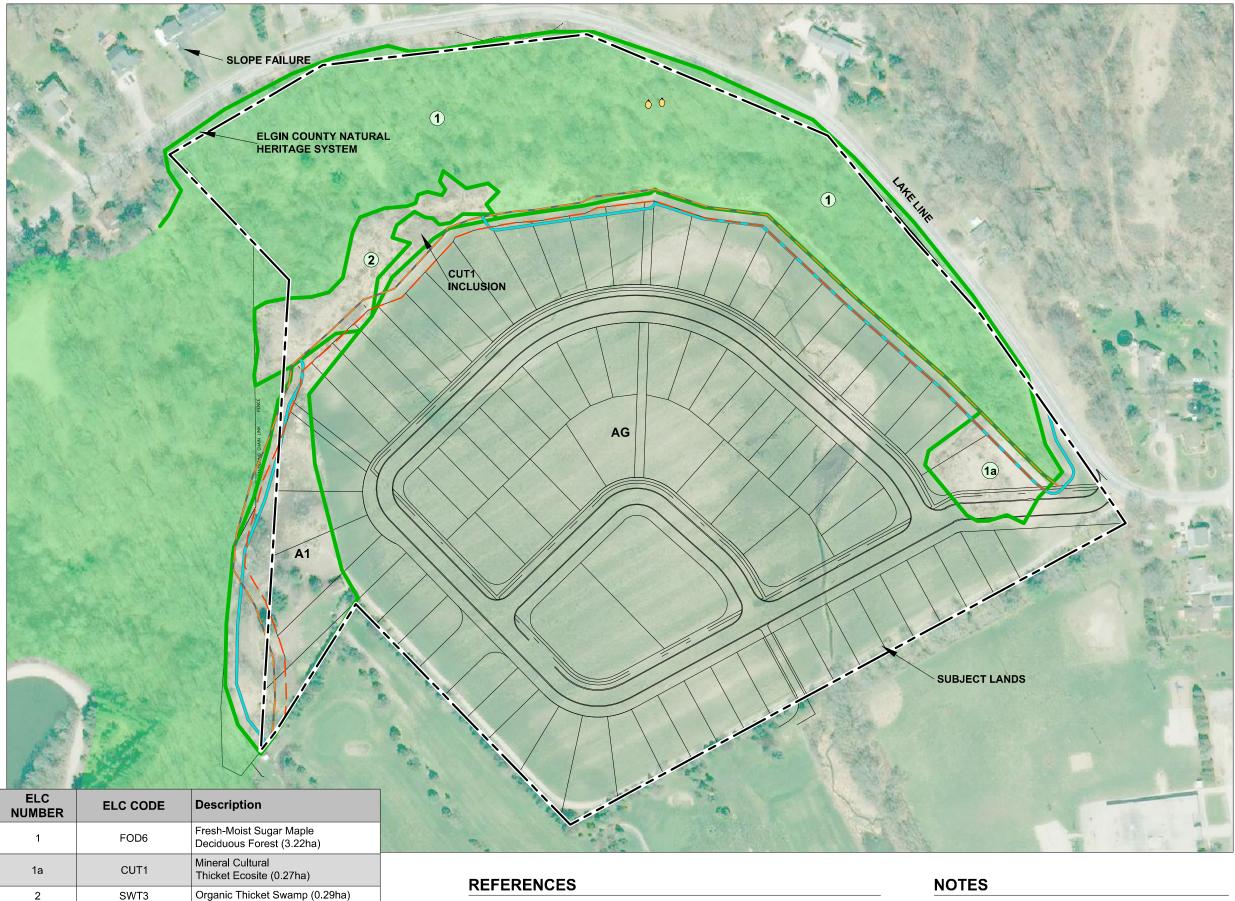
A1

Note: Area (ha) totals are only within the Subject Lands

Agricultural (8.46ha)

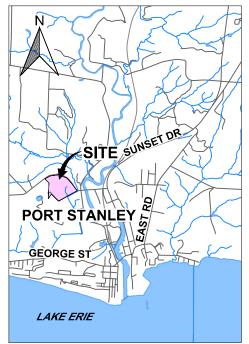
Disturbed Area (0.53ha)

Anthropogenic



BING IMAGERY AS OF MAY 31 - 2022 (IMAGE DATE UNKNOWN); STRIK BALDINELLI MONIZ LTD, SURVEY PLAN, AUTOCAD FILE "to client Draftplan(X-2801) July 25 2022 dwg"; AND LAND INFORMATION ONTARIO, ROAD AND WATER NETWORK (Key Plan).

THIS FIGURE IS SCHEMATIC ONLY AND TO BE READ IN CONJUNCTION WITH ACCOMPANYING TEXT. BING IMAGERY USED FOR ILLUSTRATION PURPOSES ONLY AND NOT TO BE USED FOR MEASUREMENTS. ALL LOCATIONS ARE APPROXIMATE.



KEY PLAN (nts)

LEGEND
SUBJECT SITE
VEGETATION COMMUNITY
SIGNIFICANT WOODLAND
CATEGORY 1 BUTTERNUT
TOE OF SLOPE
EROSION HAZARD LINE
6m BUFFER FROM WOODED AREA
SCALE IN METRES 0 40 80m 1:2,000
Engineers, Scientists, Surveyors
PROJECT ENVIRONMENTAL IMPACT STUDY 37719 LAKE LINE ROAD PORT STANLEY, ONTARIO
Drawn DCH Scale AS SHOWN Checked Project No. 48957-100 FIGURE 5
Date Rev No.

July 28/22



Agency Consultation



Melissa Cameron

Subject: Location:	FW: Consultation Meeting - 37719 Lake Line https://us02web.zoom.us/j/84062551719? pwd=U0UwdkFxblp1czhReUk3NGI1bm55QT09
Start: End: Show Time As:	Wed 4/7/2021 3:00 PM Wed 4/7/2021 4:00 PM Tentative
Recurrence:	(none)
Organizer:	Lloyd Perrin

-----Original Appointment----From: Lloyd Perrin
Sent: Monday, March 22, 2021 1:30 PM
To: Lloyd Perrin; McCoomb, Jim; james glover; Kevin Moniz; 'Joe Gordon'; Nick Dyjach; Nancy Pasato; blima@elgin.ca; Matthew Statema; Chris McDonough
Subject: FW: Consultation Meeting - 37719 Lake Line
When: Wednesday, April 7, 2021 3:00 PM-4:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: https://us02web.zoom.us/j/84062551719?pwd=U0UwdkFxblp1czhReUk3NGI1bm55QT09

Good afternoon,

The following is a Zoom meeting invite to discuss a proposal at 37719 Lake Line on Wednesday April 7th from 3:00 - 4:00 PM. A previous consultation meeting was held in December 2019 to discuss the proposal and it is the intention of this meeting to allow for the individuals who are new to the file to get up to speed and ensure that the applicant is aware of all the materials that will be required as part of their complete submission. The materials that were submitted along with the consultation request form are attached. If you have any questions, please do not hesitate to ask.

Regards,

KEVIN McCLURE, MCIP RPP Planner Central Elgin Planning Office | Planning & Building Services Dept. 9 Mondamin Street, St. Thomas, Ontario N5P 2T9 e. kmcclure@stthomas.ca t. 519-631-1680 ext: 4164 t. 519-633-2560 f. 519-633-6581



-----Original Appointment-----From: Lloyd Perrin Sent: Monday, March 22, 2021 11:53 AM To: Lloyd Perrin; McClure, Kevin Subject: Consultation Meeting - 37719 Lake Line When: Wednesday, April 7, 2021 3:00 PM-4:00 PM (UTC-05:00) Eastern Time (US & Canada). Where: https://us02web.zoom.us/j/84062551719?pwd=U0UwdkFxblp1czhReUk3NGI1bm55QT09

CAUTION:

This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Lloyd Perrin is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting https://us02web.zoom.us/j/84062551719?pwd=U0UwdkFxblp1czhReUk3NGI1bm55QT09

Meeting ID: 840 6255 1719 Passcode: 845800 One tap mobile +16473744685,,84062551719# Canada +16475580588,,84062551719# Canada

Dial by your location +1 647 374 4685 Canada +1 647 558 0588 Canada +1 778 907 2071 Canada +1 204 272 7920 Canada +1 438 809 7799 Canada +1 587 328 1099 Canada Meeting ID: 840 6255 1719 Find your local number: <u>https://us02web.zoom.us/u/kbBrR03A1r</u>



September 9, 2021

MTE File No.: 48957-100

Kevin McClure, Planner Central Elgin Planning Office Planning & Building Services Dept. 9 Mondamin Street, St. Thomas, ON N5P 2T9 Email: kmcclure@stthomas.ca	Jim McCoomb, Manager of Planning Services Central Elgin Planning Office Planning & Building Services Dept. 9 Mondamin Street, St. Thomas, ON N5P 2T9 Email: jmccoomb@stthomas.ca
Lloyd Perrin, Director of Asset Management/ Development Services Municipality of Central Elgin 450 Sunset Drive, Elgin County Administration Building St. Thomas, Ontario N5R 5V1 Email: LPerrin@centralelgin.org	Nancy Pasato, Manager of Planning Elgin County 450 Sunset Drive, Elgin County Administration Building St. Thomas, Ontario N5R 5V1 Email: npasato@ELGIN.ca
Joe Gordon, Supervisor of Planning Kettle Creek Conservation Authority 44015 Ferguson Line, St. Thomas, ON, N5P 3T3 Email: joe@kettlecreekconservation.on.ca	

Dear Mr. McClure, Mr. McCoomb, Mr. Perrin, Ms. Pasato and Mr. Gordon:

MTE has been retained by Below Me Developments (James Glover) to complete an Environmental Impact Study (EIS) for the proposed Kettle Creek Subdivision at 37719 Lake Line, Port Stanley, the Municipality of Central Elgin and Elgin County (the Subject Lands) in support of a Draft Plan of the Subdivision and Zoning By-Law amendment. An Issues Scoping Report (ISR) was previously submitted for the Subject Lands and adjacent land (BioLogic, 2015) which included a recommendation for a scoped EIS. During a pre-consultation meeting held with the Township of Central Elgin and Kettle Creek Conservation Authority on April 7, 2021, it was confirmed that an EIS was required as part of the Draft Plan application. The agreed-upon scope of the EIS in that meeting was to build on the ISR (BioLogic, 2015) and incorporate life science inventories from 2015 and 2021 to document existing natural heritage features and functions on the Subject Property and adjacent lands, evaluate potential impacts, and recommend appropriate avoidance (e.g. setbacks), mitigation and enhancement measures to protect the natural heritage features.

The 12.8 ha Subject Lands consist of an active sod farm agricultural lands as well as forested slopes, which are part of the Elgin County natural heritage system [Figure 1]. The Adjacent Lands include the Lake Line Right-of-way (R.O.W.) to the north, Kettle Creek Golf and County Club and a Public school to the south, and the River Road R.O.W. to the west. Per the Official Plan of Central Elgin, the Subject Lands have a land use designation of residential in the farmed portion and natural heritage/significant woodland on the forest slopes (Schedule G) and are zoned OS2-29 and OS2-30 (Open Space). The entire Subject Lands are within the area regulated by Kettle Creek Conservation Authority under Ontario Regulation 181/06: Development, Interference with Wetlands and Alterations to Shorelines and Watercourses.

The proposal is to establish 79 single detached lots and 9 semi-detached lots on the Subject Lands, with servicing (water) from a combined sewer in the Carlow Road R.O.W., that is directed to an existing pumping station that ultimately pumps the flows up Lake Line and discharged into the treatment facility on Scotch Line. The proposed area of development is confined to the existing agricultural portions of the Subject Lands.

This Terms of Reference is intended to confirm the scope of natural heritage field investigations as well as the contents of the EIS report for the Subject Lands as agreed upon in the pre-consultation meeting held April 7, 2021. Revisions to the first submission of the Terms of Reference (circulated August 25, 2021) are included herein to incorporate comments provided by Kevin McClure and Nancy Pasato on August 26, 2021 [Appendix A]. The Terms of Reference were prepared with reference to the Municipality of Central Elgin Official Plan policies in Section 3.1.2 and 3.4.2, and Elgin County Official Plan Policies in Section D1.2, specifically, Policy D1.2.8.1 and Appendix B.

Proposed Field Investigations and Reporting

The following field investigations are proposed for 2021 to update data previously gathered on the Subject Lands as part of the ISR (BioLogic, 2015) to inform the current EIS. Field investigations have been scoped to the Subject Lands plus a 120 m Study Area with an emphasis on natural features directly adjacent the development proposal (woodland and thicket wetland) and in consideration of previously-collected data, as noted below:

- ELC to identify and delineate vegetation communities
- Two-season botanical inventory (spring & summer). A fall inventory is not proposed as the lateflowering species targeted during this survey period are typically plants of meadow or prairie habitats, which are absent from the Subject Lands. Data from a three-season inventory completed on the Subject Lands in 2015 (BioLogic, unpublished data) will be incorporated into the EIS.
- Breeding bird surveys (late May-early July)
- Identification of potential habitat for Protected Species (provincially endangered or threatened species), including bat maternity roost trees and fur-bearing mammal dens.
- Documentation of incidental wildlife observations and their habitats in relation to the site

Several field investigations have been excluded from the 2021 field program based on the findings of the ISR (BioLogic, 2015) and additional unpublished data gathered for the Subject Lands. Amphibian surveys were completed on the Subject Lands in 2015 (BioLogic, unpublished data). Habitat suitable for amphibian breeding (i.e. shallow standing water) was not observed within the wetland communities on the Subject Lands, therefore these surveys are not proposed for 2021. Habitat features that would concentrate snake species (e.g. candidate hibernaculum) were not documented in the ISR and there are no records of snake Species at Risk in the vicinity of the Subject Lands, therefore reptile surveys are not proposed. Migratory bird surveys are also not proposed as the development has been designed to avoid direct impacts to the woodland and stopover habitat for migratory waterfowl or shorebirds is not present on the site based ELC and the findings of the ISR. The Significant Wildlife Habitat Mitigation Support Tool (MNR, 2015) recommends avoidance of woodlands but no setback as the key mitigation measure for migratory landbirds, therefore targeted surveys would not inform the assessment of impacts.

The EIS report will include a description of existing natural heritage features using background sources and data gathered during field investigations, an assessment of natural heritage feature significance and sensitivity, including an assessment of Significant Wildlife Habitat and habitat for Species at Risk, a description of the proposed undertaking, an assessment of potential impacts, and recommendations for avoidance, mitigation or enhancement of natural heritage features to assist with the site design. Figures depicting key natural features and the proposed development on the Subject Lands and within 120m will be included with the report, along with appendices documenting data collection.

Summary

This Terms of Reference for an EIS, as agreed upon in the pre-consultation meeting on April 7, 2021, has been prepared in accordance with policies of the Municipality of Central Elgin Official Plan in Sections 3.1.2 and 3.1.4, and the Elgin County Official Plan Policy D1.2.8.1 and Appendix B. We welcome your comments and look forward to confirming these Terms of Reference.

Yours Truly,

MTE Consultants Inc.

Melissa Cameron, M.Sc., M.LA., OALA 2021.09.09 14:42:54 -04'00'

Melissa Cameron Senior Biologist 519-204-6510 ext. 2263 mcameron@mte85.com



Figure 1: Vegetation Communities (Elgin County Mapping, 2006)



0 1,000 Scale 1:50,000 Key Plan

Legend

A - Agricultural (7.93ha)
A1 - Anthropogenic Disturbed Area (0.55ha)
1 FOD5-2 Dry-Fresh Sugar Maple-Beech Deciduous Forest (1.9ha)
1a (CUT1 Mineral Cultural Thicket Ecosite 0.5ha)
1b (CUW1 Mineral Cultural Woodland Ecosite 0.6ha)
2 SWT2 Mineral Thicket Swamp (0.9ha)

Significant Woodland (approximate boundary)

* Locations are approximate and should be verified by survey where necessary. Print on 11X17, Landscape Orientation 0 40

Scale 1:2000 August 2021







Agency Comments for EIS Terms of Reference (submitted Aug 25, 2021)



Melissa Cameron

From:	Melissa Cameron
Sent:	Thursday, August 26, 2021 2:07 PM
То:	'Nancy Pasato'; McClure, Kevin; McCoomb, Jim; 'LPerrin@centralelgin.org'; 'Joe
	Gordon'
Cc:	'Kevin Moniz'; james glover
Subject:	RE: EIS Terms of Reference for 37719 Lake Line, Port Stanley

Hi Nancy,

Thank you for your comments! The EIS was scoped in a meeting on April 7th, 2021 and is based on the development proposal, the findings of the ISR (BioLogic 2015) and additional data gathered by BioLogic in 2015. These data were discussed in the scoping meeting, however I understand you may not have been present so I've incorporated that information into my responses below.

1. Plant Inventory – a three-season inventory was completed on the Subject Lands by BioLogic in 2015 (data unpublished). Our 2021 updated field investigations are scoped to the natural features adjacent the current development proposal (woodland and thicket) in which late-flowering species typical of open habitats, like meadow or prairie, are not expected.

2. Wildlife Inventories

- a. Breeding bird surveys are proposed during the appropriate season (late-May/June). These have been completed.
- b. Habitat assessments for mammals (e.g. bats, fur-bearing mammals) are included in the TOR (bullets 4 & 5).
- c. Amphibian surveys were completed on the Subject Lands by BioLogic in 2015 (data unpublished). Habitat suitable for amphibian breeding (i.e. shallow standing water) was not observed within the wetland communities on the Subject Lands, therefore these surveys are excluded from the 2021 TOR and EIS.
- d. There were no features observed on the Subject Lands in the ISR that would concentrate snake species (e.g. candidate hibernaculum) and no records of snake Species at Risk in the vicinity of the Subject Lands, therefore reptile surveys are not proposed.
- e. Migratory Bird surveys are not proposed as the development has been designed to avoid direct impacts to the woodland (Candidate SWH for migratory landbird stopover) and Candidate SWH for migratory waterfowl or shorebirds is not present on the site based ELC and the on the findings of the ISR. The Significant Wildlife Habitat Mitigation Support Tool (MNR, 2015) recommends avoidance of woodlands as the key mitigation measure for migratory landbirds, and no setback beyond the feature is recommended for this particular SWH type. The potential for indirect impacts to candidate SWH will be addressed in the EIS.
- f. Significant Wildlife Habitat and habitat for Species at Risk were assessed as part of the ISR (BioLogic, 2015) and these assessments will be updated in the 2021 EIS.
- 3. For 2021, our focus for field investigations is on the natural features in communities 1 and 2 and updating the data set from 2014/2015. However, the EIS will address the entire area shown as Subject Lands (including community A1) plus a 120m Study Area.

If we can provide more information to assist in your review of the Terms of Reference please us let know. We would be happy to add the information noted above to the TOR document if it satisfies the County's concerns.

Melissa

Client First | Right Solution | Work Together Melissa Cameron, M.Sc., M.LA, OALA Senior Biologist

London x2263

From: Nancy Pasato <npasato@ELGIN.ca>

Sent: Thursday, August 26, 2021 9:46 AM

To: McClure, Kevin <kmcclure@stthomas.ca>; Melissa Cameron <MCameron@mte85.com>; McCoomb, Jim <jmccoomb@stthomas.ca>; 'LPerrin@centralelgin.org' <LPerrin@centralelgin.org>; 'Joe Gordon' <joe@kettlecreekconservation.on.ca>

Cc: 'Kevin Moniz' <kevin@sbmltd.ca>; james glover <jamesgluv@gmail.com>

Subject: RE: EIS Terms of Reference for 37719 Lake Line, Port Stanley

Hello Melissa – following up from Kevin's email, having reviewed the requirements of an EIS as outlined in Appendix B of the County Official Plan, it appears much of the required information is missing from your terms of reference. For instance:

- as per clause b), a three season inventory is required why does your terms of reference only outline two?
- as per clause c), no mention of a three season survey of bird, mammal and reptile and amphibian species and an
 assessment of potential wildlife species based on available habitat types, in addition to the bird survey being
 undertaken during the peak period for migratory and breeding bird activity (i.e. May and June for Breeding Bird
 Activities and May to October for peak migratory activity)
- the TofR also does not seem to indicate that you will be reviewing the southern pointed corner (labelled as A1 on the attached drawing) please confirm this

Please review Appendix B of the County OP and address the required items, in addition to the requirements for Central Elgin in your Terms of Referce and ultimately, within the EIS. Thanks.

Nancy Pasato, RPP

Manager of Planning



450 Sunset Drive St. Thomas, ON. N5R 5V1 (519) 631-1460 ext.126 www.elgincounty.ca

From: McClure, Kevin <<u>kmcclure@stthomas.ca</u>>

Sent: August 26, 2021 9:35 AM

To: Melissa Cameron <<u>MCameron@mte85.com</u>>; McCoomb, Jim <<u>jmccoomb@stthomas.ca</u>>; 'LPerrin@centralelgin.org' <<u>LPerrin@centralelgin.org</u>>; Nancy Pasato <<u>npasato@ELGIN.ca</u>>; 'Joe Gordon' <<u>joe@kettlecreekconservation.on.ca</u>> Cc: 'Kevin Moniz' <<u>kevin@sbmltd.ca</u>>; james glover <<u>jamesgluv@gmail.com</u>> Subject: RE: EIS Terms of Reference for 37719 Lake Line, Port Stanley

Good morning Melissa,

The Municipality of Central Elgin has specific criteria in its Official Plan that speaks to Issues Scoping Reports and Environmental Impact Statements (attached). I believe that you and your client should be satisfied that there is sufficient analysis undertaken to ensure that the information submitted satisfies the requirements in the Official Plan and that there is demonstration that the proposed development

and/or site alteration will not have any negative impacts on the natural heritage features and their ecological functions.

Regards,

KEVIN McCLURE, MCIP RPP Planner

Central Elgin Planning Office | Planning & Building Services Dept. 9 Mondamin Street, St. Thomas, Ontario N5P 2T9 e. kmcclure@stthomas.ca t. 519-631-1680 ext: 4164 t. 519-633-2560 f. 519-633-6581



From: Melissa Cameron Sent: Wednesday, August 25, 2021 3:14 PM To: McClure, Kevin <<u>kmcclure@stthomas.ca</u>>; McCoomb, Jim <<u>jmccoomb@stthomas.ca</u>>; 'LPerrin@centralelgin.org' <<u>LPerrin@centralelgin.org</u>>; 'Nancy Pasato' <<u>npasato@ELGIN.ca</u>>; 'Joe Gordon' <<u>joe@kettlecreekconservation.on.ca</u>> Cc: 'Kevin Moniz' <<u>kevin@sbmltd.ca</u>>; james glover <<u>jamesgluv@gmail.com</u>> Subject: EIS Terms of Reference for 37719 Lake Line, Port Stanley

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Dear Mr. McClure, Mr. McCoomb, Mr. Perrin, Ms. Pasato and Mr. Gordon:

MTE has been retained by Below Me Developments (James Glover) to complete an Environmental Impact Study (EIS) for the proposed Kettle Creek Subdivision at 37719 Lake Line, Port Stanley, the Municipality of Central Elgin and Elgin County (the Subject Lands) in support of a Draft Plan of Subdivision and Zoning By-Law amendment. An Issues Scoping Report (ISR) was previously submitted for the Subject Lands and adjacent land (BioLogic, 2015) which included a recommendation for a scoped EIS. During a pre-consultation meeting held with the Township of Central Elgin and Kettle Creek Conservation Authority on April 7, 2021, it was confirmed that an EIS was required as part of the Draft Plan application. The EIS will build on the ISR (BioLogic, 2015) and incorporate life science inventories from 2021 to document existing natural heritage features and functions on the Subject Property and adjacent lands, evaluate potential impacts, and recommend appropriate avoidance (e.g. setbacks), mitigation and enhancement measures to protect the natural heritage features.

A Terms of Reference (TOR) for the EIS is attached which describes the proposed scope of natural heritage field investigations as well as the contents of the EIS report for the Subject Lands, as agreed upon in the pre-consultation meeting held April 7, 2021.

We would appreciate your confirmation of receipt of this email and look forward to confirming the TOR with you in advance of our EIS report submission.

Sincerely,

Melissa

Melissa Cameron, M.Sc., M.LA, OALA | Senior Biologist MTE Consultants Inc. T: 519-204-6510 x2263 | <u>MCameron@mte85.com</u> 123 St George St., London, Ontario N6A 3A1 www.mte85.com | <u>Twitter</u> | <u>LinkedIn</u> | <u>Instagram</u> | <u>Facebook</u>

Our structural engineering team is growing with the acquisition of Atkins + Van Groll. Visit our <u>website</u> to learn more.

COVID-19 Update: We remain operational and are currently available by email and phone, however, our offices are closed. Staff that are required to visit job sites or perform field work are required to follow MTE health and safety policies and procedures, as well as additional COVID-19 protocols, which can be viewed <u>here</u>.

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Notice: A number of Elgin County services are unavailable at this time due to the evolving health situation (COVID-19). Please visit <u>www.elgincounty.ca</u> for daily updates.



Species Lists





AVIFAUNAL SURVEY INFORMATION SUMMARY SHEET

W. Huys

_	Date	Start	Finish	Weather	
Visit 1	15-Jun-15	6:45 AM	7:15 AM	24C, wind 1, 10% cloud, 0 precipita	ation
Visit 2	29-Jun-15	7:30 AM	8:00 AM	15C, wind 1, 0% cloud, 0 precipitati	ion

Species	Species		Comm.	1	Со	mm. 2			s	ESA	PIF	
Abbr.	Name		Visit 1	Visit 2	Visit 1		Vis	it 2	-	Status	Status	Notes
		Code	No.	No.	Code	No.	Code	No.	капк	Status	Status	
WAVI	Warbling Vireo	SM	1	SM	1				S5			
AMRO	American Robin	FY	10						S5			
YWAR	Yellow Warbler	NE	4	NE	2				S5			
SOSP	Song Sparrow	Ρ	2	Р	2				S5			
NOCA	Northern Cardinal	Р	5	Р	2				S5			
RWBL	Red-winged Blackbird	FY	8						S4			
AMGO	American Goldfinch			Р	3				S5			

Evidence Codes:

Breeding Bird - Possible

SH=Suitable Habitat SM=Singing Male

Breeding Bird - Probable

T=Territory A=Anxiety Behaviour D=Display N=Nest Building P=Pair V=Visiting Nest

Breeding Bird - Confirmed

DD=Distraction NE=Eggs AE=Nest Entry NU=Nest Used NY=Nest Young FY=Fledged Young FS=Food/Faecal Sack

Other Wildlife Evidence

OB=Observed DP=Distinctive Parts TK=Tracks VO=Vocalization HO=House/Den FE=Feeding Evidence CA=Carcass Fy=Eggs or Young SC=Scat SI=Other Signs (specify)



AVIFAUNAL SURVEY INFORMATION SUMMARY SHEET

Project: <u>48957-</u>100 **Collector(s):** W. Huys

	Date	Start	Finish	Weather
Visit 1	3-Jun-21	8:00am	8:30am	overcast
Visit 2	22-Jun-21	8:00am	8:30am	cool, overcast

Species	Species		Comm.	. 1			ESA	PIF	
Abbr.	Name	Vi	sit 1	Vis	sit 2	S Rank		Status	Notes
		Code	No.	Code	No.		Status	Status	
KILL	Killdeer	Р	2	OB	1	S5			In field
GCFL	Great Crested Flycatcher	SH	1			S4	-		
WAVI	Warbling Vireo	SM	1	SM	1	S5			
BCCH	Black-capped Chickadee	SM	1			S5	-		
HOWR	House Wren	SM	1			S5			
AMRO	American Robin	Р	4	FY	3	S5			
YWAR	Yellow Warbler	P/T	2	Т	2	S5			
AMRE	American Redstart	SM	1	SM	1	S5			
EATO	Eastern Towhee			VO	1	S4		RC	
SOSP	Song Sparrow	Р	2	SM	1	S5			
NOCA	Northern Cardinal	SH	2	OB	3	S5			
INBU	Indigo Bunting			SM	1	S4			
RWBL	Red-winged Blackbird	Р	5			S4			
BHCO	Brown-headed Cowbird	SH	2	SH	2	S4			
BAOR	Baltimore Oriole	Р	2	Р	2	S4		RC,RS	Along lane

Evidence Codes:

Breeding Bird - Possible

SH=Suitable Habitat SM=Singing Male

Breeding Bird - Probable

T=Territory A=Anxiety Behaviour D=Display N=Nest Building P=Pair V=Visiting Nest

Breeding Bird - Confirmed

DD=Distraction NE=Eggs AE=Nest Entry NU=Nest Used NY=Nest Young FY=Fledged Young FS=Food/Faecal Sack Other Wildlife Evidence

OB=Observed DP=Distinctive Parts TK=Tracks VO=Vocalization HO=House/Den FE=Feeding Evidence CA=Carcass Fy=Eggs or Young SC=Scat SI=Other Signs (specify)

FL=Flyover FO=Foraging

		Floral Inver	ntorv							
Scientific Name	Common Name	CW	GRank	COSEWIC	Nrank	SARO	SRank	EL	Туре	Invasive
butilon theophrasti	Velvetleaf	3.0	GNR		NNA		SE5	IC	FO	
cer saccharinum	Silver Maple	-3.0	G5		N5		S5	С	TR	
grimonia parviflora	Swamp Agrimony	-1.0	G5		N4		S4	R	FO	
grostemma githago var. githago	Common Corncockle	3.0	GNRTNR		NNA		SE3		FO	
grostis stolonifera	Creeping Bentgrass	-3.0	G5		N5		SE5	IC	GR	
lliaria petiolata	Garlic Mustard	0.0	GNR		NNA		SE5	IC	FO	Y
mbrosia artemisiifolia	Common Ragweed	3.0	G5		N5		S5	С	FO	
rctium minus	Common Burdock	3.0	GNR		NNA		SE5	IC	FO	
sclepias syriaca	Common Milkweed	5.0	G5		N5		S5	C	FO	
arbarea vulgaris	Bitter Wintercress	0.0	GNR		NNA		SE5	IC	FO	
erberis thunbergii	Japanese Barberry	3.0	GNR		NNA		SE5	IU	SH	Y
arex blanda	Woodland Sedge	0.0	G5		N5		S5	C	SE	
helone glabra	White Turtlehead	-5.0	G5		N5		S5	X	FO	
ichorium intybus	Chicory	3.0	GNR		NNA		SE5	IC	FO	
rcaea canadensis	Broad-leaved Enchanter's Nightshade	3.0	G5		N5		\$5	C	FO	
rsium arvense	Canada Thistle	3.0	G5		NNA		SE5	IC	FO	Y
rsium vulgare	Bull Thistle	3.0	GNR		NNA		SE5	IC	FO	
onvolvulus arvensis	Field Bindweed	5.0	GNR		NNA		SE5	IX	VI	
ornus alternifolia	Alternate-leaved Dogwood	3.0	G5		N5		S5	X	SH	
rnus racemosa	Gray Dogwood	0.0	G5		N5		S5	X	SH	
rnus sericea	Red-osier Dogwood	-3.0	G5		N5		S5	C	SH	
ctylis glomerata	Orchard Grass	3.0	GNR		NNA		SE5	IC	GR	
ucus carota	Wild Carrot	5.0	GNR		NNA		SE5	IC	FO	
osacus fullonum	Common Teasel	3.0	GNR		NNA		SE5	IC	FO	Y
hinochloa crus-galli	Large Barnyard Grass	-3.0	GNR		NNA		SE5	IC	GR	
eagnus umbellata	Autumn Olive	3.0	GNR		NNA		SE3	IR	SH	Y
ocharis obtusa	Blunt Spikerush	-5.0	G5		N5		S5	C	SE	
imus repens	Creeping Wildrye	3.0	GNR		NNA		SE5	IC	GR	
mus virginicus	Virginia Wildrye	-3.0	G5		N5		S5		GR	
ilobium ciliatum	Northern Willowherb	-3.0	G5		N5		S5		FO	+
nilobium parviflorum	Small-flowered Willowherb	3.0	GNR		NNA		SE4		FO	Y
ipactis helleborine	Eastern Helleborine	3.0	GNR		NNA		SE5	IU	FO	Y
uisetum arvense	Field Horsetail	0.0	G5		N5		S5	C	FE	
igeron annuus	Annual Fleabane	3.0	G5		N5		S5	C	FO	
igeron hyssopifolius	Daisy Fleabane	-3.0	G5		N5		S5	, , , , , , , , , , , , , , , , , , ,	FO	+
ipatorium perfoliatum	Common Boneset	-3.0	G5		N5		S5	С	FO	
iphorbia corollata	Flowering Spurge	5.0	G5 G5		N4		S4	, , , , , , , , , , , , , , , , , , ,	FO	
thamia graminifolia	Grass-leaved Goldenrod	0.0	G5 G5		N5		S4 S5	С	FO	+
trochium maculatum	Spotted Joe Pye Weed	-5.0	G5 G5		N5		S5	, v	FO	
itrochium purpureum	Purple Joe Pye Weed	0.0	G5 G5		N4		\$4	R	FO	
agus grandifolia	American Beech	3.0	G5 G5		N5		S4	C	TR	
raxinus americana	White Ash	3.0	G5 G5		N5		54 S4	C	TR	
raxinus pennsylvanica	Green Ash	-3.0	G5 G5		N5		54 S4	C	TR	+
· · · · · · · · · · · · · · · · · · ·		0.0	G5 G5		N5	ł	S5	X	FO	

Glechoma hederacea	Ground Ivy	3.0	GNR	NNA	SE5	IX	FO	
Hackelia virginiana	Virginia Stickseed	3.0	G5	N5	S5	X	FO	
Hesperis matronalis	Dame's Rocket	3.0	G4G5	NNA	SE5	IC	FO	Y
Hypericum perforatum	Common St. John's-wort	5.0	GNR	NNA	SE5	IC	FO	Y
Impatiens capensis	Spotted Jewelweed	-3.0	G5	N5	S5	C	FO	
Juglans nigra	Black Walnut	3.0	G5	N4	\$4?	C	TR	
Juncus tenuis	Path Rush	0.0	G5	N5	S5	C	RU	
Juniperus virginiana	Eastern Red Cedar	3.0	G5	N5	S5	Ŭ	TR	
Leontodon hispidus	Common Hawkbit	0.0	GNR	NNA	SEH		FO	
Leucanthemum vulgare	Oxeye Daisy	5.0	GNR	NNA	SE5	IC	FO	
Ligustrum vulgare	European Privet	3.0	GNR	NNA	SE5	IR	SH	Y
Lindera benzoin	Spicebush	-3.0	G5	N5	S4	C	SH	
Liriodendron tulipifera	Tulip Tree	3.0	G5	N4	S4	C	TR	
Lobelia siphilitica	Great Blue Lobelia	-3.0	G5	NNR	S5	X	FO	
Lolium arundinaceum	Tall Fescue	3.0	GNR	NNA	SE5	IC	GR	
Lonicera japonica	Japanese Honeysuckle	3.0	GNR	NNA	SE2	IR	VW	Y
Lonicera tatarica	Tartarian Honeysuckle	3.0	GNR	NNA	SE5		SH	Y
Lythrum salicaria	Purple Loosestrife	-5.0	G5	NNA	SE5	IC	FO	Y
Malus prunifolia	Pear-leaved Crabapple	5.0	GNR	NNA	SE1	IR	SH	
Melilotus albus	White Sweet-clover	3.0	G5	NNA	SE5	IC	FO	Y
Mimulus ringens	Square-stemmed Monkeyflower	-5.0	G5	N5	S5	х	FO	
Monarda fistulosa	Wild Bergamot	3.0	G5	N5	S5		FO	
Morus alba	White Mulberry	0.0	GNR	NNA	SE5	IU	TR	Y
Muhlenbergia mexicana	Mexican Muhly	-3.0	G5	N5	S5	С	GR	
Nepeta cataria	Catnip	3.0	GNR	NNA	SE5	IC	FO	
Oenothera biennis	Common Evening Primrose	3.0	G5	N5	S5	Х	FO	
Ostrya virginiana	Eastern Hop-hornbeam	3.0	G5	N5	S5	С	TR	
Oxalis stricta	Upright Yellow Wood-sorrel	3.0	G5	N5	S5	Х	FO	
Parthenocissus vitacea	Thicket Creeper	3.0	G5	N5	S5	С	VW	
Persicaria careyi	Carey's Smartweed	-3.0	G4	N4	S4		FO	
Petroselinum crispum	Garden Parsley	5.0	GNR	NNA	SE1	IR	FO	
Phalaris arundinacea	Reed Canary Grass	-3.0	G5	N5	S5	С	GR	Y
Phragmites australis	Common Reed	-3.0	G5	N5	S4?		GR	Y
Physocarpus opulifolius	Eastern Ninebark	-3.0	G5	N5	S5	Х	SH	
Poa pratensis	Kentucky Bluegrass	3.0	G5	N5	S5		GR	
Podophyllum peltatum	May-apple	3.0	G5	N5	S5	С	FO	
Populus deltoides	Eastern Cottonwood	0.0	G5	N5	S5		TR	
Prunus serotina	Black Cherry	3.0	G5	N5	S5	С	TR	
Rhamnus cathartica	Common Buckthorn	0.0	GNR	NNA	SE5	IC	SH	Y
Rhus typhina	Staghorn Sumac	3.0	G5	N5	S5	С	SH	
Robinia pseudoacacia	Black Locust	3.0	G5	NNA	SE5	IC	TR	Y
Rosa multiflora	Multiflora Rose	3.0	GNR	NNA	SE5	IX	SH	Y
Rosa palustris	Swamp Rose	-5.0	G5	NNR	S5	Х	SH	
Rubus idaeus ssp. idaeus	Common Red Raspberry	3.0	G5T5	NNR	SE1		SH	
Rubus occidentalis	Black Raspberry	5.0	G5	N5	S5	Х	SH	
Rudbeckia hirta	Black-eyed Susan	3.0	G5	N5	S5	С	FO	

Rumex crispus	Curly Dock	0.0	GNR		NNA	SE5	IC	FO	
Rumex obtusifolius	Bitter Dock	-3.0	GNR GNR		NNA	SE5 SE5	IX	FO	
Salix bebbiana	Bebb's Willow	-3.0	GNR G5		NNA N5	SED S5	X	SH	
Salix x fragilis	(Salix alba X Salix euxina)	-3.0			NNA	SD SNA		TR	
Scirpus atrovirens	Dark-green Bulrush	-5.0	GNA G5				hyb C	SE	
Senecio vulgaris	Common Ragwort				N5	S5 SE5	-	FO	
Setaria faberi	Giant Foxtail	5.0	GNR		NNA		IX	GR	
		3.0	GNR		NNA	SE4	IC		
Setaria pumila	Yellow Foxtail	0.0	GNR		NNA	SE5	IC	GR	
Solanum dulcamara	Bittersweet Nightshade	0.0	GNR		NNA	SE5	IC	VW FO	Y
Solidago canadensis	Canada Goldenrod	3.0	G5		N5	S5		FO FO	
Solidago gigantea	Giant Goldenrod	-3.0	G5		N5	S5	Х		
Solidago patula	Round-leaved Goldenrod	-5.0	G5		N5	S4	Х	FO	
Sonchus arvensis	Field Sow-thistle	3.0	GNR		NNA	SE5	IX	FO	
Symphyotrichum lanceolatum var. interior	Interior White Aster	-3.0	G5T5		NNR	S4S5		FO	
Symphyotrichum novae-angliae	New England Aster	-3.0	G5		N5	S5	С	FO	
Symphyotrichum puniceum	Swamp Aster	-5.0	G5		N5	S5	Х	FO	
Symphyotrichum urophyllum	Arrow-leaved Aster	5.0	G4G5		N4	S4	Х	FO	
Symplocarpus foetidus	Skunk Cabbage	-5.0	G5		N5	S5	С	FO	
Taraxacum officinale	Common Dandelion	3.0	G5		N5	SE5	IC	FO	
Thelypteris palustris	Marsh Fern	-3.0	G5		N5	S5	С	FE	
Thuja occidentalis	Eastern White Cedar	-3.0	G5		N5	S5	С	TR	
Trifolium repens	White Clover	3.0	GNR		NNA	SE5	IX	FO	
Tussilago farfara	Colt's-foot	3.0	GNR		NNA	SE5	IC	FO	Y
Typha angustifolia	Narrow-leaved Cattail	-5.0	G5		N5	SE5	IC	FO	Y
Typha latifolia	Broad-leaved Cattail	-5.0	G5		N5	S5	С	FO	
Urtica dioica	Stinging Nettle	0.0	G5		N5	S5		FO	
Verbascum thapsus	Common Mullein	5.0	GNR		NNA	SE5	IC	FO	
Verbena hastata	Blue Vervain	-3.0	G5		NNR	S5	С	FO	
Verbena urticifolia	White Vervain	0.0	G5		N5	S5	Х	FO	
Viburnum opulus	Cranberry Viburnum	-3.0	G5		N5	S5		SH	
Vitis riparia	Riverbank Grape	0.0	G5		N5	S5	С	VW	
		1							<u> </u>
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Appendix C – Candidate Significant Wildlife Habitat Assessment Table

Subject Lands ELCs: FOD6, SWT3, CUT1, Adjacent Lands ELC's: FOD6, CUP3

Seasonal Concentration of Animals

Wildlife Habitat	ELC Codes Triggers	Additional Habitat Criteria	Subject Lands Candidate SWH	Adjacent Lands Candidate SWH
Waterfowl Stopover and Staging Areas (Terrestrial)	CUT1, A	- Fields with spring sheet water are present within the Agricultural portion of the Subject Lands, however these do not contain waste grains which would concentrate staging waterfowl.	No	No
Waterfowl Stopover and Staging Areas (Aquatic)	None Present	- Marsh wetlands large enough to support significant concentration of waterfowl are absent from the Subject Lands and Adjacent Lands.	No	No
Shorebird Migratory Stopover Area	None Present	- Beach areas, bars, seasonally flooded, muddy and un-vegetated shoreline habitat are absent from the Subject Lands and Adjacent Lands	No	No
Raptor Wintering Area	FOD6 CUT1	 Habitat >20ha with a combination of forest and open uplands is absent from the Subject Lands and Adjacent Lands 	No	No
Bat Hibernacula	None Present	- No caves, mine shafts, underground foundations present	No	No
Bat Maternity Colonies	FOD6	 Woodlands on and Adjacent to the Subject Lands are assumed to provide suitable roosting habitat for bats 	Candidate	Candidate
Turtle Wintering Areas	None present	 Deep (>2m) permanent waterbodies are greater than 120m from the Subject Lands 	No	No
Reptile Hibernaculum	None Present	 No burrows, rock piles, rock crevices, or mammal burrows were observed on the Subject Lands 	No	No

Colonially-Nesting Bird Breeding Habitat (Bank / Cliff)	CUT1	- No exposed cliffs or banks	No	No
Colonially-Nesting Bird Breeding Habitat (Trees/Shrubs)	None Present	 Mixed and deciduous treed wetland is absent from the Subject Lands. The small swamp thicket community is of insufficient size to support a concentration of colonial-nesting birds. No nesting colonies were observed in this community during field investigations. 	No	No
Colonially-Nesting Bird Breeding Habitat (Ground)	CUTI	 Islands or peninsulas associated with open water or in the marshy areas are absent from the Subject Lands 	No	No
Migratory Butterfly Stopover Areas	FOD6 CUT1	 The Subject Lands are located within 5km of Lake Erie or Lake Ontario, however limited nectar producing and egg-laying plants were observed along the forest edges and in cultural communities. Monarch was observed on the Subject Lands during field investigations. 	Candidate	Candidate
Land Bird Migratory Stopover Areas	FOD6	 The Subject Lands are located within 5kn of Lake Erie or Lake Ontario. Woodlands on the Subject Lands and Adjacent Lands are assumed to provide stopover habitat for migrating landbirds. 	Candidate	Candidate
Deer Winter Congregation Areas	FOD6	- Deer winter congregation areas are typically mapped by MNRF. No deer winter congregation areas are mapped within the Subject Lands or Adjacent Lands	No	No

Rare Vegetation Communities

Wildlife Habitat	ELC Codes Triggers	Additional Habitat Criteria	Subject Lands Candidate SWH	Adjacent Lands Candidate SWH
Cliffs and Talus Slopes	None Present	- No vertical cliffs with bedrock >3m in height	No	No
Sand Barren	None Present	- No sand barren areas >0.5ha	No	No
Alvar	CUT1 CUW1	- No alvars >0.5ha	No	No
Old Growth Forest	FOD5	- Woodland area not >0.5ha, dominant tree species not >140 years old	No	No
Savannah	None Present	- No savannah habitat with 25-60% tree cover	No	No
Tallgrass Prairie	None Present	- No ground cover dominated by prairie grasses	No	No
Other Rare Vegetation	None Present	- No Provincially Rare vegetation communities	No	No

Specialized Habitats of Wildlife considered SWH

Wildlife Habitat	ELC Codes Triggers	Additional Habitat Criteria	Subject Lands Candidate SWH	Adjacent Lands Candidate SWH
Waterfowl Nesting Area	SWT3	 No wetland >0.5ha or cluster of smaller wetlands are present on the Subject Lands. The swamp thicket on the Subject Property is too small and lacking in standing water to support a concentration of nesting waterfowl. 	No	No
Bald Eagle and Osprey Nesting, Foraging, Perching	FOD6	 Nests of Bald Eagle or Osprey were not observed within the Subject Lands. No super-canopy trees providing ideal perches are present on the Subject Lands or Adjacent Lands 	No	No
Woodland Raptor Nesting Habitat	None Present	 Natural or conifer plantation woodlands/ forest stands >30ha with >4ha of interior habitat are absent from the Subject Lands. No raptor nests were observed within the study area 	No	No
Turtle Nesting Areas	None Present	- No exposed mineral soil adjacent to wetland	No	No
Springs and Seeps	None Present	 Seepage from the base of the woodland slope is present on the Subject Lands 	Candidate	No
Amphibian Breeding Habitat (Woodland)	FOD6 SWT3	- The thicket swamp at the base of the woodland slope does not retain sufficient water in spring to support concentrations of breeding amphibians	No	No
Amphibian Breeding Habitat (Wetlands)	None Present	 No wetlands >500m² and >120m from woodland ecosites are present on the Subject Lands or Adjacent Lands 	No	No
Woodland Area-Sensitive Bird Breeding Habitat	None Present	 Large mature (>60 years old) forest stand or woodlots >30ha with interior habitat are absent from the Subject Lands and Adjacent Lands 	No	No

Wildlife Habitat	ELC Codes Triggers	Additional Habitat Criteria	Subject Lands Candidate SWH	Adjacent Lands Candidate SWH
Marsh Breeding Bird Habitat	None Present	 There is no marsh habitat present within the Subject Lands or Adjacent Lands to support nesting by marsh birds 	No	No
Open Country Bird Breeding Habitat	None Present	 Natural and cultural fields >30ha are absent from the Subject Lands and Adjacent Lands 	No	No
Shrub/Early Successional Bird Breeding Habitat	CUT1	 Large fields succeeding to shrub and thicket habitats >10ha in size are absent from the Subject Lands and Adjacent Lands 	No	No
Terrestrial Crayfish	SWT3	 Seepage wetland habitat present with forest edge habitat, however no crayfish chimneys were observed 	No	No
Special Concern and Rare Wildlife Species (NHIC and MNRF pre-consultation)		NHIC identified several species are potentially on or adjacent	to the Subject Lands	
Broad Beech Fern (SC)		 Broad Beech Fern was not observed during targeted plant surveys on the Subject Lands in 2015 and 2021 Suitable deciduous forest habitat for Broad Beech Fern is assumed to be present on the Adjacent Lands 	No	Candidate
Bald Eagle (SC)		 Suitable habitat for Bald Eagle (forest near major lake) may be present within the woodland of the Subject Lands as well as the Adjacent Lands, however no nests and no suitable perching trees (super-canopy trees) were observed. Bald Eagle may be unlikely to use habitat in close proximity to existing roads and residences 	No	No
Eastern Ribbonsnake (SC)		- Suitable marsh habitat is absent from the Subject Lands	No	No
Eastern Wood-pewee (SC)		 Suitable deciduous forest is present within the Subject Lands and the Adjacent Lands Eastern Wood-pewee was not detected on the Subject Lands during breeding bird surveys in 2015 or 2021 	No	Candidate
Peregrine Falcon (SC)		 Suitable steep cliff ledges close to large bodies of water are absent from the Subject Lands and Adjacent Lands 	No	No

Snapping Turtle (SC)	 Suitable pond habitat may be present within the nearby golf course, however these ponds are > 120m from the Subject Lands 	No	No
Wood Thrush (SC)	 Suitable mature deciduous forest is present within the Subject Lands and the Adjacent Lands Wood Thrush was not detected on the Subject Lands during breeding bird surveys in 2015 or 2021 	No	Candidate

Animal Movement Corridors

Wildlife Habitat	ELC Codes Triggers*	Additional Habitat Criteria	Subject Lands Candidate SWH	Adjacent Lands Candidate SWH
Amphibian Movement Corridors	None Present	 Amphibian movement corridors are identified once breeding habitat is confirmed. There are no suitable movement corridors present for amphibians within the Subject Lands 	No	No



Field Data Sheets



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	Butternut Data Collection FORM 2 (2010 Edition) (PLEASE USE BLOCK LETTERS) Fill when Form 1 indicates canker is well established. The information opn Form 2
1000	Shaded fields are mandatory for Butternut Health Assessments must be filled out for all trees when doing a
	Site Code(A,B,Z, AA) Surveyor ID or BHA # 2 2 2 Date (dd/mm/yyyy)
``-	Surveyor Last Name H_{UV} S 0^{-10} - 2015
	Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing
	Tree # Zone Easting Northing 0 1 1 4 1 1 4 7 2 4 7 7 8 Crown 9 5 Crown % 1 Below crown Seed #Epic-Live #Open #Sooty Competing Species Twig Dieback 1 #Stems Butternut Male Flowers Female Flowers Bark Type -<2m 4 3 0
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	Tree # Zone Easting Northing
	Crown Live Crown % Below crown Below crown % Below cr
	Tree # Zone Easting Northing
	1 1 Assess below live crown Metres from badly cankered tree Crown Class Live Crown % Main Stem Length(m) Below crown Seed #Epic-Live #Epic-Dead #Open #Sooty Twig Dieback Branch Dieback #Stems Origin Natural Female Flowers Female Flowers Defoliation DBH(cm) Planted Seed Set #Callused >2m Image: Comparison of the second
	Tree # Zone Easting Northing
	1 Assess below live crown Crown Live Main Stem Length(m) Class Crown % Below crown Seed Twig Dieback #Stems Butternut Signs Defoliation DBH(cm) Planted Seed Set Discolouration DBH(cm) None
	Please enter matching page link code on forms 1 and 2 Please return forms to: 49731
255	Page Link 49731 Page Link 48 1 1 1 7 (Contact Information follows all applicable privacy policies and guidelines)

privacy policies and guidelines)

Peterborough, ON, K9J 2V4 www.fgca.net

Table 3: Key for Field Identification of Butternut Hybrids

Trait	Description	Assign score of:
	Leaves yellow and drop early in the fall, late August to mid-September	0
Leaf Retention	Leaves yellow and drop in mid-fall, after the first frost	1
	Leaves stay green late into the fall and drop after a hard frost	2
	Terminal bud elongated and slender, conical, and tan-coloured	0
Dormant Terminal Bud	Terminal bud broadest at base, less elongated, slightly green coloured	1
	Terminal bud stout, pyramid shaped, green or yellow green in colour	2
	Dark olive green or reddish-brown, slender, sometimes with hairs below the terminal bud	0
Dormant Twigs	Tan to brownish green and stout, sometimes with patches of hairs, especially below terminal bud	1
	Tan to light green, stout, often with abundant rusty red or tan hairs	2
	Lenticels on most recent growth uniformly small, round, white, abundant, and evenly distributed; if some are elongated or dash-shaped, elongation is perpendicular to direction of the branch	0
Lenticel Shape on New Twigs	Lenticels on most recent growth mostly small, round, white, abundant, with patchy distribution; if some are elongated or dash-shaped, elongation is parallel to direction of branch	1
	Lenticels on most recent growth large, tan and corky, patchy distribution, many dash-shaped and elongated parallel to branch	2
	Very dark, chocolate brown	0
Pith Color of 1-Year	Medium brown (colour of dark maple syrup)	1
Twig	Tan to honey coloured	2
annan sain fachta da bhailte ann an All Shailte Annan an Shaille ann an All Shailte ann an Annan Anna Anna Anna	Top edge of most leaf scars straight or slightly arched	0
Leaf Scar	Top edge of some leaf scars with small descending "V" shaped notch	1
	Top edge of most or all leaf scars with clear descending "V" shaped notch	2
	Most leaves less than 46 cm long	0
Leaf Length	Many leaves 46 cm or longer	1
	Dark grey or black	0
Color of Bark Fissures	Light grey or silvery	1
on Mature Trees	Tan or slightly pinkish	2
Green Hull	Densely hairy and very sticky	0
Characteristics	Somewhat hairy and only slightly sticky	2
	Nut cylindrical, round in cross section, with thin, sharp corrugations; the suture/seam is not easily distinguished from the longitudinal ridges	0
Nut Shape	Nut slightly asymmetrical, with noticeable valleys between longitudinal ridges	1
	Nut asymmetric, diamond shaped or flattened, with dull or sparse corrugations; the suture/seam is easily identified and forms the widest part of the body of the nut	2
Catkin Length When	Shorter than 11.5 cm	0
Fully Extended and	11.5 – 14 cm	1
Shedding Pollen	Longer than 14 cm	2

Table 4: Data Sheet for Field Identification of Butternut Hybrids

BHA name:	Will Huys		Tree ID #:					
BHA ID #:	222							
BHA Report #:	900-772		10	20				
Assessment Date(s):	Oct. 1, 2015	5	8					2
Tree location (site address):	37719 Lake Road, A. Stanky	anty						
Client name:	James Clover	1						
Traits (must evaluate at least five traits):	e at least five trait	:(s)	Score Assigned:					
Leaf Retention								
Dormant Terminal Bud	pr			-				
Dormant Twigs			١.					
Lenticel Shape on New Twigs	ew Twigs		2	2				
Pith Color of 1-Year Twig	Twig		Q					
Leaf Scar			2	1				
Leaf Length			0					
Color of Bark Fissures on Mature Trees	s on Mature Trees		.	0				
Green Hull Characteristics	ristics			~				
Nut Shape			/					
Catkin Length When Fully Extended and Shedding Pollen	Fully Extended		/			-		
How to interpret total score: 0 to 3 = Butternut; 4 or greater = Hybrid	al score:	Total:	\otimes	\sim				

			GENERA	AL SI	TE INFORMATIO	NI	FIELD SI	HEET		
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		2	Collector(s):	W	H LULI	-	Појессии	Visit #:		
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1			NHIC List	MN	IR EO's D none		not provi	ded to c	ollector	
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DATA F				Yeste	erday: yer	_	Wind Felt of Leaves in o		motion	
	Birds 1_2_Mig_		ELC's		Dripline/Tree Survey	-	Wind raise			
	Mammals	×	Floral V_Y_SA_		Aquatic - Physical	5	Small trees			
	Amphibians 1_2_3_		Wetland		Aquatic - Biological		Large bran			
	Reptiles		Butternut (BHA)		Faunal Habitat		Lots of resi			king into
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K	Brush Piles		/						~	
X	Snags (raptor perch)		D ASH IN PRE	SERV	IED LONDS					
	Tree Cavities (nesting)								
	Sentinel Trees Butternut Identified									
	Mast Trees (6E)		Berry Shrubs (6E)							
	Features:				None observed					
	Waterfowl nesting (lar	ge #'s, #	of species)							
	Exposed Banks (nesting	ng swallo	ws)							
	Stick Nests Animal Burrows (>10c									
	Heronry						· · · · · · · · · · · · · · · · · · ·			
	Crayfish mounds									
	Sand/gravel on site									
	Marsh/open country/sh	hrub			,					
	Winter Deer yards Corridor from pond to	woods (a	mpibian movement)							
	Bat corridor (shoreline									
	Bat hibernacula (caves									
-	Features:									
	Perm. pond in woodlar Perm. pond in open		emergents/submergen mergents/submergent							
	Water in woodland	e 🗌 e sloog Г	flowing dr		temp.					
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) EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF BROWSE	(cm)		DEPTH OF ORGANICS		MOISTURE:
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HEAVY	MODERATE	LIGHT	NONE	WIND THROW (BLOW DOWN)		MID-AGE MATURE	YOUNG	PIONEER	COMM. AGE :
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OTHER WILDLIFE EVIDENCE: OB = OBSERVED DP = DISTINCTIVE PARTS TK = TRACKS SI = OTHER SIGNS (specify)	BREEDING BIRD - CONFIRMED: DD = DISTRACTION NE = EGGS AE = NEST ENTRY	A = ANXIETY BEHAVIOUR
VO = VOCALIZATION HO = HOUSEIDEN FE = FEEDING EVIDENCE	NU = USED NEST NY = YOUNG	D = DISPLAY N = NEST BUILDING
CA = CARCASS FY = EGGS OR YOUNG SC = SCAT	FY = FLEDGED YOUNG FS = FOOD/FAECAL SACK	P = PAIR V = VISITING NEST

BREEDING BIRD - CONFIR DD = DISTRACTION NE = EGGS AE = NEST ENTRY A = ANXIETY BEHAV D = DISPLAY

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BREEDING BIRD - PROBABLE: T = TERRITORY

H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

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	AMRE	SM				
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POTENTIAL WILDLIFE HABITAT: VERNAL POOLS HIBERNACULA	POTENTIAL WILDLIFE HABITAT: VERNAL POOLS HIBERNACULA	POTENTIAL WILDLIFE HABITAT: VERNAL POOLS HIBERNACULA SPECIES LIST:	POTENTIAL WILDLIFE HABITAT: VERNAL POOLS HIBERNACULA SPECIES LIST: TY SP. CODE EV NOTES #
VERNAL POOLS HIBERNACULA	VERNAL POOLS HIBERNACULA	VERNAL POOLS HIBERNACULA SPECIES LIST:	OOLS ULA : DE EV NOTES
HIBERNACULA	HIBERNACULA	HIBERNACULA SPECIES LIST:	ULA : DE EV NOTES
		SPECIES LIST:	DE EV NOTES

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₹	SP. CODE	Ē	NOTES	#	Ł	SP. CODE	Ē	NOTES	#
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FAUNAL TYPE CODES (TY): B=BIRD M = MAMMAL H= HERPETOFAUNA L=LEPIDOPTERA F = FISH O = OTHER

BREEDING BIRD - CONFIRMED: AE = NEST ENTRY DD = DISTRACTION NE = EGGS D = DISPLAY N = NEST BUILDING NU = USED NEST NY = YOUNG

OTHER WILDLIFE EVIDENCE: OB = OBSERVED DP = DISTINCTIVE PARTS

VO = VOCALIZATION HO = HOUSE/DEN FE = FEEDING EVIDENCE

CA = CARCASS FY = EGGS OR YOUNG SC = SCAT

Page of

SI = OTHER SIGNS (specify)

TK = TRACKS

BREEDING BIRD - PROBABLE: T = TERRITORY A = ANXIETY BEHAVIOUR

P = PAIR V = VISITING NEST

FY = FLEDGED YOUNG FS = FOOD/FAECAL SACK

SM = SINGING MALE

BREEDING BIRD - POSSIBLE: SH = SUITABLE HABITAT

EVIDENCE CODES (EV):

HIBERNACULA VERNAL POOLS SNAGS FALLEN LOGS

SPECIES LIST:

CONDITIONS:

WILDLIFE CLOUD (10th): START TIME: SURVEYOR(S): 1/ WIND: PRECIPITATION: END TIME:

ELC

+ 00

DATE: JA POLYGON: SITE: 4895

TEMP (°C):

POTENTIAL WILDLIFE HABITAT:

E C

POLYGON: SITE: 48957-100

WILDLIFE SURVEYOR(S): WW DATE: Jn 22, 202 START TIME: END TIME:

CLOUD (10th): O WIND: PRECIPITATION: 20

TEMP (°C): $\widehat{\omega}$

NAGS **ALLEN LOGS**

SM = SINGING MALE

BREEDING BIRD - POSSIBLE: SH = SUITABLE HABITAT **EVIDENCE CODES (EV):** FAUNAL TYPE CODES (TY): B=BIRD M = MAMMAL

				AL SITE t: 4895		NF	FIELD SH	IEET		
1	1		Date	: June	3,2621		Project M	anager:		
	-	PMTE	Collector(s)): wH	5 20 -1	-	1 10,221	Visit #:		
			Time started: 8,00	S Time	finished: <u>8:30</u> Co	omt	pined collec	tors' ho	urs: Ó	5
			NHIC List	MNR	EO's none		not provid	ded to c	ollector	
A/E	ATH	ER CONDITIONS				1	WIND SCA	IF		C-STARLES STORE
Tem		Wind:	Cloud Cover (%)	Precipit	ation	0		Dear rear		
				Today:		1	Smoke Drif	ts		
	6	Direction:	1.00	Yesterd	ay: 425	_	Wind Felt o			
DAT	A F	OCUS				-	Leaves in c			
X		Birds 1 <u>×</u> 2_Mig_	ELC's		Dripline/Tree Survey		Wind raises		d paper	
		Mammals	Floral VS_A_		Aquatic - Physical	_	Small trees			
		Amphibians 1_2_3_	Wetland		Aquatic - Biological		Large brand			dan into
		Reptiles	Butternut (BHA) other SAR		Faunal Habitat Other - see notes		Lots of resis			king into
	7115	Inverterbrates RES (with GPS co-ordinates w			Other - see notes	0	Mapped		ow-up R	ea'd
Man	-ma	de Structures:	nere applicable		None observed	-	UTM	Yes	No	Who
Yes								1000		
\square	X	Barns/Footings/Wells/other(lis	t)							
	X	Rock Piles	,							
	×	Garbage								
Nati	Iral	Vegetation:			None observed					
	×	Fallen Logs outside woods (#'s	5)							
	X	Brush Piles								·
	X	Snags (raptor perch)					 	 		
	× .	Tree Cavities (nesting)						 		
	8	Sentinel Trees		,						
	X	Butternut Identified Mast Trees (6E)	Berry Shrubs (6E)							
Wild	llife	Features:	Delly onlubs (or)		None observed					
	K	Waterfowl nesting (large #'s, #	of species)							
H	1	Exposed Banks (nesting swall		5						
	X	Stick Nests								
	×	Animal Burrows (>10cm)								
	X	Heronry								
	×.	Crayfish mounds						,		
	X	Sand/gravel on site								l
Ц		Marsh/open country/shrub								
	×	Winter Deer yards Corridor from pond to woods (a	mailion movement)	i.						
	~	Bat corridor (shorelines, escar								
H	X	Bat hibernacula (caves, mines								
Agu	atic	Features:	, 01001000, 010.7							
	X		emergents/submerge	nts/logs	temp.					
H	X		emergents/submerge		temp.					
	A	Water in woodland Dools	flowing	dry						
	X	Waterways flowing	dry pools							
	Ľ]natural stream								
		swale			None observed					
	Ľ]open drain								
mal	L	al Observations/Notes:						ļļ		
nci	aem	al Observations/Notes.								
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SITE: URBE	- ~ 5.				ł	<u>ה</u> כ	SITE:				
EYOR(S)		DATE: JW3, 201	TIME: start		J		POLYGON:				
NUTMZ: UTME:	Ē.	ИТ			1	DISTURBANCE	SURVEYOR(S):	(S):			
DESCRIPTION					H	TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	2 5 - 15 YRS	3 0 - 5 YEARS	SCORE †
		HISTORY	PLANT FORM	COMMUNITY		INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
C ORGANIC		NATURAL	PLANKTON			EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
MINERAL SOIL	<u> </u>	CULTURAL	FLOATING-LVD.			SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
PARENT MIN.	TERRACE			STREAM	1	EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ACIDIC BEDRK.	TABLELAND		D LICHEN BRYOPHYTE		J	GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
BASIC BEDRK.				BARREN	ŀ	EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
		COVER	MIXED	PRAIRIE	l	LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
	BEACH / BAR	OPEN		SAVANNAH		EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
." <u> </u>	BLUFF					ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
				_ PLANTATION		EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SCRIPTION:					1	PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
6	SPECIES IN ORI	DER OF DECREAS	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)	1 FOUAL TO	1	EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
				·	l	TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
						EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
<					ł	DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	
					ľ	EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
9 = 10 <ht< td=""><td>3 = 2<ht 10="" m<="" td=""><td>4=1<ht 2="" 5="0.5</td" m=""><td>0.5<ht 0.5="" 1="" 6="0.2<HT" m="" m<="" td=""><td>0.5 m 7 = HT<0.2 m</td><th>H</th><td>EARTH DISPLACEMENT</td><td>NONE</td><td>LIGHT</td><td>MODERATE</td><td>HEAVY</td><td></td></ht></td></ht></td></ht></td></ht<>	3 = 2 <ht 10="" m<="" td=""><td>4=1<ht 2="" 5="0.5</td" m=""><td>0.5<ht 0.5="" 1="" 6="0.2<HT" m="" m<="" td=""><td>0.5 m 7 = HT<0.2 m</td><th>H</th><td>EARTH DISPLACEMENT</td><td>NONE</td><td>LIGHT</td><td>MODERATE</td><td>HEAVY</td><td></td></ht></td></ht></td></ht>	4=1 <ht 2="" 5="0.5</td" m=""><td>0.5<ht 0.5="" 1="" 6="0.2<HT" m="" m<="" td=""><td>0.5 m 7 = HT<0.2 m</td><th>H</th><td>EARTH DISPLACEMENT</td><td>NONE</td><td>LIGHT</td><td>MODERATE</td><td>HEAVY</td><td></td></ht></td></ht>	0.5 <ht 0.5="" 1="" 6="0.2<HT" m="" m<="" td=""><td>0.5 m 7 = HT<0.2 m</td><th>H</th><td>EARTH DISPLACEMENT</td><td>NONE</td><td>LIGHT</td><td>MODERATE</td><td>HEAVY</td><td></td></ht>	0.5 m 7 = HT<0.2 m	H	EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
0% < C	10% 2= 10 < CVF	25% 3 = 25 < C	60% 4=			EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DSITION:				BA:	1	RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
					1	EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ANALYSIS:	< 10	10 - 24	25 - 50	> 50	1	NOISE	NONE	SLIGHT	MODERATE	INTENSE	
NAGS:	< 10	10 - 24	25 - 50	> 50	l	EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LOGS:	< 10	10 - 24	25 - 50	> 50	l	DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	-
N = NONE	R=RARE O=	OCCASIONAL	A = ABUNDANT		ľ	EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PIONEER	YOUNG	MID-AGE	MATURE	OLD		WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
	-			GROWTH	5	EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
YSIS:	NEBTU TO MOTTI ES / GI EV			<u>ו</u> ן זי		BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
	DEPTH OF ORGANICS:	ANICS:		(cm)		EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OUS / VARIABLE	DEPTH TO BEDROCK:	ROCK:		(cm)	1	BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
₹L	N.		ELC		ł	EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
	1 11					FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
			111			EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
	CKEL		- C4		J	FIRE	NONE	LIGHT	MODERATE	HEAVY	
	FRAL		CUL			EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ATION TYPE:					1	CE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
					1	EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
USION						OTHER	NONE	LIGHT	MODERATE	HEAVY	
MPLEX					ł	EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	-
					ľ				_	† INTENSITY x EXTENT = SCORE	NT = SCORE

				COMPLEX
				INCLUSION
				VEGETATION TYPE:
CUTLER		ERAL	MINERAL	ECOSITE:
CUT		KET	THICKE	COMMUNITY SERIES:
		- ULTURAL	\sim	COMMUNITY CLASS:
ELC CODE		Z	IFICATIO	COMMUNITY CLASSIFICATION:
	Χ:	DEPTH TO BEDROCK:		HOMOGENEOUS / VARIABLE
	CS:	DEPTH OF ORGANICS:	-	MOISTURE:
II GI	S/GLEY g =	DEPTH TO MOTTLES / GLEY		TEXTURE:
<u>v</u> el				SOIL ANALYSIS:
	MID-AGE	YOUNG	PIONEER	COMM. AGE :
A = ABUNDANT	O = OCCASIONAL A =	R = RARE 0 = OCC	N = NONE F	ABUNDANCE CODES: N
25 - 50	10 - 24	< 10		DEADFALL / LOGS:
25 - 50	10 - 24	< 10		STANDING SNAGS:

S	STAND DESCRIPTION	RIPTIO	Z	
	LAYER	тн	HT CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
	CANOPY			
N	SUB-CANOPY			
ω	UNDERSTOREY			
4	GRD. LAYER			
푹 [HT CODES:	1 = >25 m	2 = 10<	1=>25 m 2=10 <ht 0.5="" 1="" 10="" 2="" 25="" 3="2<HT" 4="1<HT" 5="0.5<HT" 6="0.2<HT" 7="HT<0.2" m="" m<="" td=""></ht>
ŝ	CVR CODES	0= NONE	1 ≓ 0% •	0= NONE 1= 0% < CVR 10% 2= 10 < CVR 25% 3= 25 < CVR 60% 4= CVR > 60%
ST	STAND COMPOSITION:	N:		BA:

SIZE CLASS ANALYSIS:

POLYGON DESCRIPTION	SCRIPTION				
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM COMMUNITY	COMMUNITY
TERRESTRIAL	ORGANIC		NATURAL	PLANKTON	
WETLAND	MINERAL SOIL	BOTTOMLAND	CULTURAL	FLOATING-LVD.	
AQUATIC	PARENT MIN.	VALLEY SLOPE			
	ACIDIC BEDRK.	TABLELAND			SWAMP
	BASIC BEDRK.				
SITE	CARB. BEDRK.	CREVICE / CAVE	COVER		
SHALLOW WATER		BEACH / BAR			SAVANNAH
BEDROCK		BLUFF			
STAND DESCRIPTION	RIPTION				

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Notes:

Ruustyp	ORN	S hu	CORNser	SLALUMD	RHAM Cat	CORNIAC	RUBUIDO															KOB/pse	POPWalc 1	ACERSAC	SALIBAD	JUGLNig	1 2	SPECIES CODE	ABUNDANCE CODES: R = RARE 0 =	1 = CANOP	SPECIES DA	т- т
DACTolo	Soulan		N2 Micra	POA-pra	CLEC hed	LEU C vul	ASCL Syr	VERBHA																				LAYER COL. SPECIES CODE		SURVETUR(S): Y 2= SUB-CANOPY 3= UNDERSTOREY 4= GROUND (GRD.) LAYER	DATE:	POLYGON:
																											1 2 3 4	AVER		D.) LAYER		
				U			,1		1	1	,1	1	l	R	ľ	l	l		1	1	1	1	1	1	1	1	R	1			1	7
																												SPECIES CODE	ABUNDANCE CODES: R = R	LAYERS: 1=C		PLANT
																														LAYERS: 1= CANOPY 2= SUB-CANOPY 3= UNDERSTOREY	LIST SURVEYOR(S):	

CONDITIONS:	TEMP (°C): CLO		WILULIFE			1
	CLOUD (10th):	START TIME:	SURVEYOR(S):	DATE:	POLYGON:	SITE: 489
	WIND:					SNEEDS
	PRECIPITATION:	END TIME:				

۰ [POTENTIAL WILDLIFE HABITAT:	
	VERNAL POOLS	SNAGS
	HIBERNACULA	FALLEN LOGS

HIBERNACULA VERNAL POOLS TEMP (°C):

CLOUD (10th):

WIND:

PRECIPITATION:

WILDLIFE

SURVEYOR(S): DATE:

START TIME:

END TIME:

ELC

POLYGON: SITE:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

SNAGS

FALLEN LOGS

SPECIES LIST:

7

SP. CODE

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NOTES

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SP. CODE

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NOTES

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SPECIES LIST:

TY SP. CODE	E EV	NOTES	#	7	SP. CODE	Ę	NOTES
BCCH	Shu	-989					
9505	P.C.	11					
KILL	d.	1× FISED					
20 X S	, P	ABONGLAN	36				
OZNA -	q	111					
I VA VV	25						
SCEL	145				-		
V ZUW A	Pr						
BHCO	54) }					
アともに	r r	141					
AMRS	LAIS.	(
NOCA	sb						
NOWR	200	738954					
						14	
					VINT		SC

EVID	FAU			
EVIDENCE CODES (EV):	FAUNAL TYPE CODES (TY): B=BIRD M = MAMMAL H=HERPETOFAUNA L=LEPIDOPTERA F=FISH 0=OTHER			
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FAUNAL TYPE CODES (TY):

B = BIRD M = MAMMAL

H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV): BREEDING BIRD - POSSIBLE: SH = SUITABLE HABITAT

BREEDING BIRD - PROBABLE: T = TERRITORY A = ANXIETY BEHAVIOUR

D = DISPLAY N = NEST BUILDING

P = PAIR V = VISITING NEST

SM = SINGING MALE

BREEDING BIRD - PROBABLE: T = TERRITORY

BREEDING BIRD - POSSIBLE: SH = SUITABLE HABITAT

SM = SINGING MALE

BREEDING BIRD - CONFIRMED: A = ANXIETY BEHAVIOUR D = DISPLAY N = NEST BUILDING

NU = USED NEST NY = YOUNG

OTHER WILDLIFE EVIDENCE: OB = OBSERVED DP = DISTINCTIVE PARTS TK = TRACKS

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AE = NEST ENTRY DD = DISTRACTION

NE = EGGS

CA = CARCASS FY = EGGS OR YOUNG SC = SCAT

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VO = VOCALIZATION HO = HOUSE/DEN FE = FEEDING EVIDENCE

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Page of

FY = FLEDGED YOUNG FS = FOOD/FAECAL SACK

P = PAIR V = VISITING NEST

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BREEDING BIRD - CONFIRMED

AE = NEST ENTRY DD = DISTRACTION NE = EGGS

NU = USED NEST NY = YOUNG

FY = FLEDGED YOUNG FS = FOOD/FAECAL SACK

	_	GENERAL SITE INFORMATION	NF	IELD SI	HEET		
		Project: 48957-100		Project M	anador		
		BATE Date: August 17, 2021 Collector(s): EQ Time started: 11.5 Time finished: 2:30 Co		i roject ivi	Visit #:	DH	
		Time started: 1:15 Time finished: 2:30 Co	mb	ined collec	tors' ho	urs:	
	- and C			not provid	ded to c	ollector	
		ER CONDITIONS		WIND SCA	LE		
Tem	np.	Wind: 5km/h/ Cloud Cover (%) Precipitation		Calm	10		
125	°C	Direction: NW 60 Today: None Yesterday: None		Smoke Drif Wind Felt o			
DAT	A F	DCUS		Leaves in c		motion	
		Birds 1_2_Mig_ ELC's Dripline/Tree Survey		Wind raises			
		Mammals Floral V_S_A_ Aquatic - Physical		Small trees		100	
	-	Amphibians 1_2_3 Wetland Aquatic - Biological Reptiles Butternut (BHA) Faunal Habitat	6	Large brand	ches swa	ау	
	1	Inverterbrates other SAR Other - see notes		Lots of resis Limbs breat			king into
FEA	TUR	ES (with GPS co-ordinates where applicable)	0	Mapped		low-up F	leg'd
Man	-ma	de Structures: None observed		UTM	Yes	No	Who
Yes	No	Porno/Egotingo/Molla					
	H	Barns/Footings/Wells/other(list) Rock Piles	_				
		Garbage	-				
Natu	Iral	Vegetation: None observed					
Ц	Ц	Fallen Logs outside woods (#'s)					
H	\square	Brush Piles Snags (raptor perch)	_				
$\left - \right $	H	Tree Cavities (nesting)	-				
		Sentinel Trees	\neg				
		Butternut Identified					
		Mast Trees (6E) Berry Shrubs (6E) Features: None observed					
VIIG	line	Features: None observed Waterfowl nesting (large #'s, # of species)	_				
H		Exposed Banks (nesting swallows)	-				<u> </u>
		Stick Nests					
		Animal Burrows (>10cm)					
H	Ц	Heronry Cravifich mounde					
Н	H	Crayfish mounds Sand/gravel on site	-				
		Marsh/open country/shrub	-				
		Winter Deer yards	+				
	Ц	Corridor from pond to woods (ampibian movement)					
H	Н	Bat corridor (shorelines, escarpments) Bat hibernacula (caves, mines, crevices, etc.)	-				
Aqua	atic	Features:	+				
		Perm. pond in woodland emergents/submergents/logs temp.	+			-	
		Perm. pond in open					
H	H.	Water in woodland pools flowing dry Waterways flowing dry pools	_				
		Waterways flowing dry pools	-+				
		swale None observed	+				
		open drain	1				
Inoid		Seeps/Springs					
inciu	ente	Deservations/Notes:	ŀ				
.50	NN	deer - summer plants	+				
		a su ut cor prisi no	+				
5	NIC	mordirch					
			-				
			+				
	1.1 1.000		+				

Graphic Attached or Name ENV/Biological Services/Templates/MFERER & Brend Manager Date:

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GENERAL SITE INFORMATION FIELD SHEET r^{\ddagger} Stanley

Project:	Glover-	Po
	A 17	

Date: Auo Collector(s): мЧ Project Manager:

OM Visit #: 2

Time started: 8.15

Time started: <u>8:15</u> Time finished: <u>8:45</u> Combined collectors' hours: <u>0.5</u> NHIC List MNR EO's none not provided to collector

WEATH	ER CONDITIONS				WINI	D SC	CALE			
Temp.	Wind:		Cloud Cover (%)	Preci	pitation	0	Calm			
230		1	1 5		y: No	1	Smoke Drift	s		
<u>~</u>	Direction:				rday: No		Wind Felt or			
DATA FO			-l	110310			Leaves in o		notion	
	Birds 12		ELC's	·	Dripline		Wind raises			
		<u> </u>							ı haheı	
	Mammals	L <u>X</u>	Floral VS_XA_		Aquatic - Physical		Small trees	•		
	Amphibians 1_ 2_ 3_		Wetland		Aquatic - Biological		Large brand			
	Reptiles		Butternut		Faunal Habitat					ing into
	Inverterbrates		other SAR			8	Limbs breal	king off tr	ees	
FEATUR	ES (with GPS co-ordi	nates w	nere applicable)				Mapped		ow-up R	
Man-ma	de Structures:				None observed			Yes	No	Who
	Barns/Footings/Wells/	other(list/)							
	Rock Piles								i	
	Garbage									
Natural V	Vegetation:			[None observed					
	Fallen Logs outside w	oods (#'s	3)							
	Brush Piles		• •							
	Snags (raptor perch)				······					
	Tree Cavities (nesting)					-			
	Sentinel Trees	/								
	Mast Trees (6E)		Berry Shrubs (6E)		· · · · · · · · · · · · · · · · · · ·					
Wildlife	Features:		Deny Shrubs (OE)		None observed					
windlife			- (
	Waterfowl nesting (lar									
	Exposed Banks (nesti	ng swallo	ows)							
	Stick Nests									
	Animal Burrows (>100	cm)			-2					
	Heronry									
	Crayfish mounds									
	Sand/gravel on site									
	Marsh/open country/s	hrub						:		
	Winter Deer yards									
	Corridor from pond to	woods (a	ampibian movement)							
	Bat corridor (shoreline									
	Bat hibernacula (cave									
Aquatic	Features:	<u>-,</u>	, , _ , _ , _ ,							
	Perm. pond in woodla	ind 🗔	emergents/submergen	ts/loas	temp.					
	Perm. pond in open		emergents/submergen		temp.					
	Water in woodland	llooq 🗌								
		wing	dry pools	<u>y</u>						
 └──┘ _	· · · · ·									
	<u>] natural stream</u>				None observed		}	╂━───		
	∫swale	<u> </u>			None observed					
L L	open drain							 		
	Seeps/Springs									1
Incident	tal Observations:	-							ļ	
				<u></u>						
							ļ	L		
									[
Graphic	Attached or Nar	ne			Checked by Project M	lana	ager 🗆 Da	ate:		

	ELC	SITE:	Glov	er -	Port Stan	184		IPOL	POLYGON:				
			EYOR(S)):		DAT	E:	. 1	IME: sta		- 20		
DE	ESCRIPTION &			lorse			204 231	4	finis	ուպ	~0 G		
	ASSIFICATION	UTMZ:	: 	UTME			l	JTMN:					
PO	LYGON DI	ESCR	IPTION	1									
Γ	SYSTEM	SUB	STRAT	ЕТ	OPOGRAPHIC FEATURE	۲ ۲	ISTORY	PL	ANT FORM	CO	MMUNIT		
Т	ERRESTRIAL		GANIC		LACUSTRINE		TURAL		ANKTON	Ци	KE		
- ·	/ETLAND		ERAL SOI		RIVERINE BOTTOMLAND	🗆 cu	JLTURAL	🔲 FL	JBMERGED OATING-L.VD.		/ER		
	QUATIC		ENT MIN.	X	TERRACE VALLEY SLOPE			E FC	raminoid)rb	Д МА	REAM RSH		
		I_	dic Bedri	, 🔲	TABLELAND ROLL. UPLAND			BF	CHEN YOPHYTE	🔲 FE			
			RB. BEDRI	~ iH:	Cliff Talus				CIDUOUS NIFEROUS		RREN		
	SITE			~ 닏니	CREVICE / CAVE 4LVAR		COVER	X MI	XED		adow Airie		
	PEN WATER	1		1 Marca 1	ROCKLAND BEACH / BAR	Пор	EN	7			icket Vannah		
🔲 su	HALLOW WATER URFICIAL DEP.				SAND DUNE	🗆 SH					odland Rest		
	DROCK					🕅 TR	EÉD				ANTATION		
STA	ND DESCR	RIPTIC	<u> </u>	-		· · ·		•					
	LAYER	НТ	CVR	(>>	SPECIES IN O MUCH GREAT	RDER (ER TH/	of Decrea: AN; > grea	Sing E Ter T	IOMINANCE HAN; = ABO	(up to 4 UT EQ	i sp) UAL TO)		
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		3	3	sug.	maph >> buc	h thenn	: how there	> OPE	ch zelim				
2 5	SUB-CANOPY		1 ~ 1										
_	SUB-CANOPY NDERSTOREY	3	Ч	Jur h	there 3 ho	wyheen	s mfiriza	lognoo	d) sunce				
3 UI			-										
3 UI 4 (NDERSTOREY GRD. LAYER	n je	4	huite	there 3 ho	l magle	and 25.1.3	E me y	~ppl	≤0.5 m 7	r = HT<0.2 m		
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PLANT			ATE:	_	ay 2	26			_			
SPECIES LIST					(s): ().							,
LAYERS: 1=)PY	2 = S	UB-C/	NOPY 3	UNDEF	RSTOREY 4 = GROUND (GR	D.) L/	YER			
ABUNDANCE CODES: R=	RARE			ASIO	NAL A=	BUNDA	NT D = DOMINANT	-		YER		
SPECIES CODE		LA	YER		COL.		SPECIES CODE	┡				COL
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Ash	-	•	·				red on K			L		· · ·
black watnut							white reday					
crubapple		·					willow					
Sugar raphe	•	•				L	Spruce					
cotton word							black locust					
aspen trendiling							birch					
an beech						ſ	(attail					
henlock						Ī	raqueed					
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multiflora rose					<u> </u>	ŀ	buckthoin					
buckthorn	$\left - \right $	ļ	હં			┢	Hauthern	┢			\square	
Howthorn			e ¹		<u> </u>	┝		┢──		┝	┢	
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······							Multi-Alara rose	┣		<u> </u>		┣
						ļ	Honey Shekle	Ļ		<u> </u>	 	
						ļ		┞	<u> </u>	<u> </u>	┣-	┣
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horse lost							Colden rolling	L		ļ		ļ
garlic mestand							Mayapple					<u> </u>
skunt cubbage						[Civilie Mashard				<u> </u>	<u> </u>
noyapple						ſ						
dand chian						Ē			1			

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grass-s nettle

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MANAGEMENT DATE: May 33, J of 4 DISTURBANCE SURVEYOR(8): 0, flor1, 2 3 8C DISTURBANCE / EXTENT 0 1 2 3 8C INSTURBANCE / EXTENT 0 1 2 3 8C INTENSITY OF LOGGING 20016 FUEL WOOD SELECTIVE 0 AMATER LIMIT EXTENT OF LOGGING 20018 FUEL WOOD SELECTIVE DAMIETR LIMIT EXTENT OF LOGGING 20014 WIDESPREAD EXTENSIVE EXTENT OF OPERATIONS NONE LIGAL WIDESPREAD EXTENSIVE EXTENT OF OPERATIONS NONE LOGAL WIDESPREAD EXTENSIVE LIVESTOCK (GRAZING) NONE LOGAL WIDESPREAD EXTENSIVE LIVESTOCK (GRAZING) NONE LOGAL WIDESPREAD EXTENSIVE PLANTING (PLANTATION) NONE LOGAL WIDESPREAD EXTENSIVE EXTENT OF ALLEN SPECIES NONE LOGAL WIDESPREAD EXTENSIVE PLANTING (PLANTATION) NONE			tanley	win - Aurt S		ELC
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] terrestrial] wetland } aquatic	🗆 par	GANIC IERAL SOIL RENT MIN. DIC BEDRK IC BEDRK.	. 🖵	LACUSTRINE RIVERINE BOTTOMLAND TERRACE VALLEY SLOPE TABLELAND ROLL. UPLAND CLIFF		atural Ultural		PLANKTON SUBMERGED FLOATING-LVD. GRAMINOID FORB LICHEN BRYOPHYTE DECIDUOUS		LAKE POND RIVER STREAM MARSH SWAMP FEN BOG
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	OPEN WATER SHALLOW WATER SURFICIAL DEP. BEDROCK				ROCKLAND BEACH / BAR SAND DUNE BLUFF	⊡or DSIS⊧ ⊡TF	IRUB				THICKET SAVANNAH WOODLAND FOREST PLANTATION
S	TAND DESCR		W.								
<u>v</u>	LAYER	НТ	CVR	(>>	SPECIES IN OF MUCH GREATE	DER R TH	OF DECREAS AN; > GREAT	ING FER	DOMINANCE (THAN; = ABO	lup t UT E	o 4 sp) EQUAL TO)
1	CANOPY	2	2	-	22 Black Wal			_	·		· · ·
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4	GRD. LAYER	7	3		the 1 = Colden R						
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PLANT SPECIES		D/	ATE:		May 23	, 201	4					
LIST		SI	JRVE	YOR	k(S):	D. Mor	ie					
							RSTOREY 4 = GROUND (GI	RD.) U	YER			
ABUNDANCE CODES: R =	RARE			CASIO	NAL A=/	ABUND/	NT D = DOMINANT	—				-
SPECIES CODE		LA	YER		COL.		SPECIES CODE		LA	YER		COL
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Buckthorn		•		<u> </u>					ļ	<u> </u>	┝──┥	
Klawthorn Dogwood		•		L								
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Mulli-flora Rose			•									
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	10}	Logi	~	Date	<u>660000</u>	- Port Stan 1,2014		Project Ma	anager:	D.M	
\frown		LUYI	J	Collector(s):	WA'			-	Visit #.		
ر : ا	No State	AND TEREFSTREAL CONSTSTEM PLAT	8 N E 8 S	Time started: <u>215</u>	Time fin MNR EO	ished: <u>3 ,₀₀ </u> Co 's	5mb	ined collect not provide	ors' hou ed to col	irs: <u>1</u> ,7 llector	5
		ER CONDITIONS		· · · · ·	· · · ·	WIN	D-S(— – – –
	Temp.	Wind:	σ	Cloud Cover (%)	Precipitatio			Calm			
	22		~	65	Today: n			Smoke Drift	s		
		Direction:			Yesterday			Wind Felt or			
	DATA F	OCUS						Leaves in co			
		Birds 12	X	ELC's		ripline		Wind raises		d paper	
		Mammals		Floral VS_A_		quatic - Physical		Small trees			
		Amphibians 1_2_3_		Wetland		quatic - Biological aunal Habitat		Large brand Lots of resis			cina into
		Reptiles Inverterbrates		Butternut other SAR				Limbs break			ing nito
	FEATUS	RES (with GPS co-ordin	nates w			· · · · ·	<u> </u>	Mapped	Foll	ow-up R	eg'd
		de Structures:			N	one observed	_		Yes	No	Who
		Barns/Footings/Wells/	other(list	t)				yes		<u>×</u>	
		Rock Piles		· · · · · · · · · · · · · · · · · · ·			_	- <i>0</i>			N.
		Garbage									
	Natural	Vegetation:			N	one observed	-				
		Fallen Logs outside wo	oods (#'s	s)	-						<u> </u>
		Brush Piles									
		Snags (raptor perch) Tree Cavities (nesting)	<u></u>								
		Sentinel Trees)		· · ·						
		Mast Trees (6E)		Berry Shrubs (6E)							
	Wildlife	Features:			N	one observed					
		Waterfowl nesting (larg	ge #'s, #	of species)							
		Exposed Banks (nestin	ng swall	ows)							
1.7		Stick Nests					_				
		Animal Burrows (>10c	m)					· · · · · · · · · · · · · · · · · · ·	•	<u> </u>	
		Heronry								<u> </u>	
		Crayfish mounds									<u> </u>
		Sand/gravel on site Marsh/open country/sh	hrub			· · · · · · · · · · · · · · · · · · ·					· ·
		Winter Deer yards	1100						<i></i>		
		Corridor from pond to	woods (ampibian movement)	· · · · ·						
		Bat corridor (shoreline				·····					
		Bat hibernacula (cave	s, mines	, crevices, etc.)					-	<u> </u>	
	Aquatic	Features:									
		Perm. pond in woodlar		emergents/submergen		temp.					d
		Perm. pond in open Water in woodland		emergents/submergen		temp.				<u> </u>	
		Waterways flow	pools	dry pools	<u>y</u>					-	
	╏└───┘┌	natural stream			· · · ·	·					
		∃swale	$\overline{\Box}$			lone observed			· · · · · · · · · · · · · · · · · · ·		
		Jopen drain							_		
		Seeps/Springs									
	Incident	tal Observations:									4
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8. A	Graphic	Attached or Nam	ne			Checked by Project I	Man	ager 🛛 Da	ate:	·=	

							Notes:
						×	COMPLEX
						NO	INCLUSION
Notes:						N TYPE:	VEGETATION TYPE
T		12	SWT	the swam p	MINERAL THICKET		
ΓΓ			SWT	SWAMP			COMMUNITY SERIES:
1 1			SW		SEARD		COMMUNITY CLASS:
Т		CODE	ELC		ION:	CLASSIFICAT	COMMUNITY CLASSIFICATION:
I		(cm)	٩	ROCK: 11	DEPTH TO BEDROCK:	/ VARIABLE	HOMOGENEOUS / VARIABLE
Π		(cm)	v	_	DEPTH OF ORGANICS:	đ	MOISTURE:
Τ		G≞ ()	d I	TLES / GLEY 9	DEPTH TO MOTTLES / GLEY	V.	
TT						Ņ	SOIL ANALYSI
Т		OLD	MATURE	MID-AGE		PIONEER	COMM. AGE :
TI			= ABUNDANT	OCCASIONAL A =	R=RARE O=	S: N = NONE	ABUNDANCE CODES:
		v	23		٨	ÿ	DEADFALL / LOGS:
		₽ > 50	A 25 - 50	10 - 24	کر 10	ŝ	STANDING SNAGS:
		N > 50	O 25 - 50	a 10-24	A < 10	LYSIS:	SIZE CLASS ANALYSIS:
STAND COMP		BA:				ON:	STAND COMPOSITION:
			50% 4= CVR > 60%	R ≤ 25% 3= 25 < CVR ≤ 60%	1= 0% < CVR 5 10% 2= 10 < CVR 5 25%	I N I I	CVR CODES
BASAL AR).5 m 7	-T⊴1 m 6=0.2 <ht⊴0.5 m<="" th=""><th></th><th>T≤25 m 3 = 2<ht≤10 m<="" th=""><th>1 = >25 m 2 = 10<ht≤25 m<="" th=""><th>HT CODES:</th></ht≤25></th></ht≤10></th></ht⊴0.5>		T≤25 m 3 = 2 <ht≤10 m<="" th=""><th>1 = >25 m 2 = 10<ht≤25 m<="" th=""><th>HT CODES:</th></ht≤25></th></ht≤10>	1 = >25 m 2 = 10 <ht≤25 m<="" th=""><th>HT CODES:</th></ht≤25>	HT CODES:
ŝ		<u>ک</u>	Screendinge		Ð		4 GRD. LAYER
		SAM cana	>Robmulto		RUAcathy	2 2	3 UNDERSTOREY
				÷		.	2 SUB-CANOPY
			ba	v SALai	FRASmer	2 32	1 CANOPY
		IT EQUAL TO)	R THAN; = ABOU	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL	SPECIES IN O	HT CVR	LAYER
						RIPTION:	STAND DESCRIPTION:
							BEDROCK
		WOODLAND			BEACH / BAR		SHALLOW WATER
			MIXED	COVER	ALVAR	CARB, BEDRK,	SITE
			DECIDUOUS				
		MARSH SWAMP	GRAMINOID FORB LICHEN		VALLEY SLOPE	ACIDIC BEDRK.	
SPECIES					BOTTOMLAND	回 ORGANIC 圈 MINERAL SOIL	TERRESTRIAL
PRISM		COMMUNITY	PLANT FORM	HISTORY	TOPOGRAPHIC FEATURE	SUBSTRATE	SYSTEM
TREE TALLY B						DESCRIPTION	POLYGON DE
CHARAC		જ	N: 472484		UTME: 451311	UTMZ: () U	CLASSIFICATION
		2,00	TIME: start finish	DATE: July 29 1014		SURVEYOR(S)	
)		Polygon: 🐊	STANLEY P	1212 - PCARS	ILE: GLOU	EC

			SPECIES TALLY 1 TALLY 2 TALLY 3 TALLY 4 TALLY 5 TOTAL. A	PRISM FACTOR	REE TALLY BY SPECIES:	CHARACTERISTICS SURVEYOR(S):	STAND DATE:	POLYGON:	
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TOTAL REA (BA) DEAD 10

DOSITION:

PROFILE DIAGRAM

			V SINVED)	1	SITE:		~
				Z.		POLYGON:		
		N 19 1014			SPECIES	DATE:		
SULS UN ARIO	SURVEYO	どひ		_		URVEYOR(S):		
ר			UTM	-	ב מ	O = OCCASIONAL A	3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER = ABUNDANT D = DOMINANT	D.) LAYER
1 A 2 6 4	264 4	11512 - 201100	84842LH		SPECIES CODE		SPECIES CODE	LAYER
						1 2 3 4		1 2 3 4
4 0								
сл .								
SOIL	1	3	4 5					
(10							
0								
					a .			
[
A TEXTURE	€S							
COURSE FRAGMENTS	999							
B TEXTURE	999							-
COURSE FRAGMENTS	٩٦٩			<u>.</u>				
	999							
† ·	999							
Т				•				
1								
	0							
GLEY	Ŏ			L				
BEDROCK	999			1				
WATER TABLE	0							
CARBONATES	999							
DEPTH OF ORGANICS	16		3					
PORE SIZE DISC #1	999			4 ,				
PORE SIZE DISC #2	1999 1999							
MOISTURE REGIME	6							
SOIL SURVEY MAP			-	I				
LEGEND CLASS								Page of

						Notes:
					EX	COMPLEX
					ON	INCLUSION
Notes:		cup 3-2	constrano	PLANTATION		VEGETATION TYPE
		cup3	PLANTATION			E
T		cup	PLANTATION			COMMUNITY SERIES:
11		Cu		CULTURAL		COMMUNITY CLASS:
T		ELC CODE		TION:	CLASSIFICA	COMMUNITY CLASSIFICATION:
Π		(cm)	ROCK: 999	DEPTH TO BEDROCK:	3 / YARIABLE	HOMOGENEOUS / YARIABLE
1		(cm)	£	DEPTH OF ORGANICS	W	MOISTURE:
		70 G= 0	TLES / GLEY g =	DEPTH TO MOTTLES / GLEY	N N N	SOIL ANALYSIS:
TT		MATURE OLD GROWTH	🔆 MID-AGE	ER YOUNG	PIONEER	COMM. AGE :
		ABUNDANT	OCCASIONAL A =	E R=RARE O=	ES: N = NONE	ABUNDANCE CODES:
		25-50 🔏 >50	K 10-24 K	A < 10	3S:	DEADFALL / LOGS:
		. 25-50 × 50	0 10-24 R	♦ <10	GS:	STANDING SNAGS:
4		25-50 /2 > 50	A 10-24 A	R <10	ALYSIS:	SIZE CLASS ANALYSIS:
STAND		BA: 18		PRUse	15tra 87	PINstre
		4= CVR > 80%	R ₂ 25% 3= 25 < CVR ₅ 60%	1=0% < CVR 5 10% 2= 10 < CVR 5 25%	NONE	CVR CODES
BA		m 6=0.2 <ht₅0.5 7="HT<0.2" m="" m<="" th=""><th>HT∡2 m 5=0.5<ł</th><th>2 = 10<ht_25 3="2<HT_10" m="" m<="" th=""><th>1 =>25 m 2 = 10+</th><th>HT CODES:</th></ht_25></th></ht₅0.5>	HT∡2 m 5=0.5<ł	2 = 10 <ht_25 3="2<HT_10" m="" m<="" th=""><th>1 =>25 m 2 = 10+</th><th>HT CODES:</th></ht_25>	1 =>25 m 2 = 10+	HT CODES:
		6	UR Inter	ALL peti	4	4 GRD. LAYER
Τ		AMCANA	Ratess	PRUSENO>C	ω ω	3 UNDERSTOREY
Τ					1	2 SUB-CANOPY
		SPOPAlba	>> PRUSENOS	PINStro	4	1 CANOPY
		DOMINANCE (up to 4 sp) HAN; = ABOUT EQUAL TO)	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL	SPECIES IN O	HT CVR	LAYER
					RIPTION:	STAND DESCRIPTION:
			BU TREED			BEDROCK
		SAVANNAH WOODLAND		BEACH / BAR		
		MIXED BARREN		יחחר	CARB. BEDRK	SITE
F						
					ACIDIC REDRK	
ţ		PLANKTON LAKE SUBMERGED POND FLOATING-LVD. RIVER			MINERAL SOIL	WETLAND
]		PLANT FORM COMMUNITY	HISTORY PL	E TOPOGRAPHIC FEATURE	SUBSTRATE	SYSTEM
TREE					DESCRIPTION	POLYGON DE
		4724335		UTME:481420	UTMZ: (7	CLASSIFICATION
	2	TIME: start 1.2:15			SURVEYOR(S):	
)	×	POLY	Ŕ	SITE: 6 (JVC/	ELC

<u>-</u> >		SILE: (7)	SKON -	SITE: () (DWA- Pat Stanland	2	. /	
		POLYGON:	N.X.		L	-	
STAND		DATE: July 29	Ju 29	to 14			
CHARACTERISTICS	ICS	SURVEYOR(S):	(s): ບັ				
TREE TALLY BY SPECIES:	ES:						
PRISM FACTOR 2.	24						
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
PINStro	8					ዳ	ବ୍ୟ
PRUS						1	11
TOTAL	À				•	q	100
BASAL AREA (BA)	6					ø	- 60
DEAD	-					\sim	
STAND COMPOSITION:	••						
PINSton 87	DIN	Philsen					

COMMUNITY PROFILE DIAGRAM

PLANT SPECIES LIST

GENERAL	SITE IN	FORMAT	ION FII	ELD	SHEET
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-			Projec	t: 48	957-100 222,2021 H	1011				
	BMT		Date	: Jun	2 22,2021		Project M	anager:		
			Collector(s): <u>w</u>	H			Visit #:		
N			Collector(s Time started:		ne finished: <u>8:30</u>		not provi	ctors' ho	urs: <u>0.5</u>	2
							not provi		UIECIUI	
	ER CONDITIONS	ALT SA T	a state of the state of the	201325		Series (a)	WIND SCA	LE	and a start	1.1.1
Temp.	Wind:	1	Cloud Cover (%)	Today	pitation	0	Calm Smoke Drif	fte		
13	Direction:	N	90		rday: yes	2	Wind Felt c			
DATA FO	ocus	2 - 1925	entrated a standard from	110000	rudy. open		Leaves in c		motion	
X	Birds 1_2_Mig_		ELC's		Dripline/Tree Su	vey 4	Wind raise	s dust ar	nd paper	
	Mammals	×	Floral V_YSA_		Aquatic - Physica		Small trees			
	Amphibians 1_2_3_		Wetland		Aquatic - Biologi		Large bran			
	Reptiles Inverterbrates		Butternut (BHA) other SAR		Faunal Habitat Other - see notes		Lots of resi Limbs brea			king into
FEATUR	ES (with GPS co-ord	inates w			Other - see hotes	5 0	Mapped		low-up R	lea'd
	de Structures:	nucco m			None observed		UTM	Yes	No	Who
Yes No							State -		1.1.1.1	
	Barns/Footings/Wells	other(list)							
	Rock Piles									
	Garbage /egetation:			r	None observed					
	Fallen Logs outside w	oode (#'e	1							
	Brush Piles	0003 (# 3	/							
	Snags (raptor perch)	021	D ASH IN PRE	ESERV	20 LOMDS					
	Tree Cavities (nesting									
the second secon	Sentinel Trees									
	Butternut Identified									
	Mast Trees (6E) Features:		Berry Shrubs (6E)		None observed					
	Waterfowl nesting (lar	ae #'s. #	of species)	L						
	Exposed Banks (nesti									
	Stick Nests					•				
	Animal Burrows (>10c	m)								
	Heronry									
	Crayfish mounds Sand/gravel on site									
	Marsh/open country/s	hrub								
	Winter Deer yards						e			
	Corridor from pond to									
	Bat corridor (shoreline									
Aquatic I	Bat hibernacula (cave	s, mines,	crevices, etc.)							
	Perm. pond in woodla	nd 🗆 i	emergents/submerge	ents/logs	temp.					
	Perm. pond in open		emergents/submerge		temp.					
	Water in woodland	pools	flowing							
	Waterways flov	ving	dry pools							
	natural stream									
	swale open drain	Ц	<u> </u>		None observed					
	Seeps/Springs									
	I Observations/Notes	5:								
						•				

		PMT	Έ	Project: Date: Collector(s): Time started: <u>9:0</u> NHIC List	: <u>489</u> : <u>0 ct</u> : <u>W</u> 4 : <u>W</u> 4 O Tim	57 - 1 ₀ 0 <u>1</u> - <u>1</u> - <u>1</u> e finished: <u>9:30</u> Co R EO's none	- omk	Project Ma pined collec not provid	anager: Visit #: tors' ho ded to c	urs: <u>0,</u>	2
WEA	TH	ER CONDITIONS						WIND SCA	LE		
Гет		Wind:	0	Cloud Cover (%)	Precip	itation	0	Calm			
	,	Direction:		5	Today		1	Smoke Drif			
.(5	Yester	day: D	2	Wind Felt o			
DAT	AF	ocus						Leaves in c			
		Birds 1_2_Mig_		ELC's		Dripline/Tree Survey		Wind raises		nd paper	
	4	Mammals	7	Floral VS_A		Aquatic - Physical		Small trees			
	4	Amphibians 1_2_3_		Wetland		Aquatic - Biological Faunal Habitat		Large brand Lots of resis			king into
	-	Reptiles Inverterbrates		Butternut (BHA) other SAR		Other - see notes		Limbs breat			ang mu
FA	TUP	RES (with GPS co-ord	inates w			Other - See Hotes	10	Mapped		low-up R	eq'd
		de Structures:	matee m			None observed		UTM	Yes	No	Who
/es	No									1	
		Barns/Footings/Wells	/other(list	.)							
		Rock Piles									
		Garbage									L
Vatu	Iral	Vegetation:	• • • • • • • • • • • • • • • • • • • •			None observed				- united	
	\square	Fallen Logs outside w	voods (#'s	s)						MA .	l
	님	Brush Piles									
_	Н	Snags (raptor perch) Tree Cavities (nesting	~ \								
	Н	Sentinel Trees])								
_	H	Butternut Identified									
_	Н	Mast Trees (6E)		Berry Shrubs (6E)							
Nild	life	Features:		Deny Shidbs (OL)		None observed					
		Waterfowl nesting (la	rae #'s. #	of species)							
		Exposed Banks (nest									
		Stick Nests		,						and the second	
		Animal Burrows (>10	cm)							. safet	MAN NO WANTER
		Heronry									
		Crayfish mounds									
		Sand/gravel on site									
		Marsh/open country/s	shrub								
		Winter Deer yards									
		Corridor from pond to	woods (a	ampibian movement)							
	Ш	Bat corridor (shoreline									
100		Bat hibernacula (cave Features:	es, mines,	crevices, etc.)							
-qu	auc	Perm. pond in woodla	and \Box	emergents/submerger	nte/logo	temp.					
\mid		Perm. pond in woodla Perm. pond in open		emergents/submerger		temp.					
\vdash		Water in woodland			drv						
			wing	dry pools					je.		
	Г	natural stream									
		Jswale				None observed					
	Ē	open drain	Π								
		Seeps/Springs		ПП							
ncio	dent	al Observations/Note	s:								
											
											
											
											

GENERAL SITE INFORMATION FIELD SHEET

and the state



GENERAL SITE INFORMATION FIELD SHEET Project: Glover - Port Stanley

Project:	Slaver	`~	٢
Data:	1 10	ĥ	1

JUNE Collector(s):

Project Manager: DM Visit #: T

Time finished: 1915 Combined collectors' hours: 0.5

Time started: 6:45

NHIC List MNR EO's none not provided to collector

WEATH	ERCONDITIONS					· · ·				
Temp.	Wind:		Cloud Cover (%)	Prec	ipitation	_	Calm			
24	Direction:	SW	- 10		iy: Mor	1	Smoke Drift			
				Yest	erday: no		Wind Felt or			
DATA F						3	Leaves in c			
\square	Birds 1 <u>×</u> 2		ELC's		Dripline		Wind raises		d paper	
	Mammals		Floral V_ <u>⊀</u> SA_		Aquatic - Physical	5	Small trees			
	Amphibians 1_ 2_ 3_		Wetland		Aquatic - Biological	6				
	Reptiles		Butternut		Faunal Habitat	7	Lots of resis			ting into
	Inverterbrates		other SAR			8	Limbs break			
	RES (with GPS co-ordi	inates wh	ere applicable)				Mapped		ow-up R	
Man-ma	de Structures:				None observed			Yes	No	Who
	Barns/Footings/Wells/	other(list)					\checkmark			
	Rock Piles									
	Garbage									
Natural	Vegetation:				X None observed					
	Fallen Logs outside w	oods (#'s)							
	Brush Piles		·							
	Snags (raptor perch)								1	
	Tree Cavities (nesting)								
	Sentinel Trees	,								
	Mast Trees (6E)		Berry Shrubs (6E)							
Wildlife	Features:				None observed					
1	Waterfowl nesting (lar	ne#s#	of species)							
	Exposed Banks (nesti									
	Stick Nests	ing on and								
	Animal Burrows (>100	-m)								
	Heronry	, , , , , , , , , , , , , , , , , , ,					1			· · · ·
	Crayfish mounds									
	Sand/gravel on site									
	Marsh/open country/s	brub								
	Winter Deer yards									-
	Corridor from pond to	woode (a	molibian movement)							
	Bat corridor (shoreline		· · ·							+
	Bat hibernacula (cave									
	Features:	s, mines,			· · · · · · · · · · · · · · · · · · ·					+
Aquatio	Perm. pond in woodla		emergents/submergen	te/loge	temp.		<u> </u>			+
	Perm. pond in open		emergents/submergent							
	Water in woodland		flowing dr		Lemp.					+
		pools wing		у						+
╟──╶			dry pools							
	<u>natural stream</u>	<u> </u>	<u> </u>	X	Nana abaaniad					
l L	_swale	<u> </u>			None observed				<u> </u>	
L L	open drain									
	Seeps/Springs								ļ	
Inclaen	tal Observations:	•	1	1	ALC R.					+
<u></u>	cked barn av	tol She	as on commi	<u> 1011 - 101</u>	4 Al tor Barn			 		+
<u></u>	Jallow neste	40-1	45 active nes	<u>ts 1</u>	a large barn.		 	 		╂────
M	my adults as	<u>nd Yor</u>	ing observed.	P	~		 	 		+
)	<u> </u>					I		───
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							I	<u> </u>	ļ	
							<u> </u>	ļ		───
							L		<u> </u>	<u> </u>

Graphic
Attached or Name

Checked by Project Manager Date:

Deter J. 14, 1 or Project Manager, 10, Visit #:		in the second				INFORMATIO			IEET		
Time started: 2:50 Time finished: 9:22 Combined collector Wind: Ime started: 0:25 Today: two 1 Sinke britished: 7 Diraction: Image: started: 0:26 2 Wind Fetto Tace 7 Diraction: Image: started: 0:26 2 2 Wind Fetto Tace 8 Diraction: Image: started: 0:26 2 2 2 2 4 3 Leaves in constant motion 4 Mind Tace 2 Garage: started: 1 3 Leaves in constant motion 4 Birds 1_2/2 Wetland Aquatic - Biological 5 Linke breaking of the started: 7 Linke breaking of the started: 1 1 Started: 1 1 Started: 1 1 1 1 1	al as f	ANI	7 20	Da	te: Jn 2º	1,2015	1	Project Ma	anager:	DM	
Jime started: Y:20 Combined collectors' hours: 0 WHAT: Image: Started: NR EO's none mot provided to collector WWAT: Image: Started:	A. 24		d				-				
WHATHER CONDITIONS WIND SCALE Temp. Wind: 1 Cloud Cover (%) Precipitation 0 Claim '_ Direction: S O Today: r.o. 1 Sinoke Drits OTAT FOCUS ELC's Orpline 4 Wind release subt and paper Amphibans 1_2.3. Wetland Aquado. Physical Sinali trees sway Amphibans 1_2.3. Wetland Aquado. Physical Sinali trees sway Marmade Structures: Butternut. Flore Hand Habitat Total y: Sinali trees sway Marmade Structures: Marmade Structures: Mapped Foling/Weils/other(list) Mapped Foling/Weils/other(list) Rock Piles Sindago (release where applicable) Mapped Foling/Weils/other(list) Mapped Foling/Weils/other(list) Rock Piles Sindago (release) Sindago (release) Sindago (release) Sindago (release) Sindago (release) Sindago (release) Sindago (release) Sindago (release) Sindago (release) Bart Fores Sindago (release) Sindago (release) Sindago (release) Sindago (release) Sindago (release) Sinda	ADBATIC	AND TERPESTIVAL FLOWYSTER PLAN	66 R K	Time started: T	30 Time	finished:_%់ ឆCo	omb				
Temp: Vind: 1 Cloud Cover (%) Prescipitation 0. Calm '5 Direction: S Vind Felder: 2. Wind Felder: 3. Leaves in constant motion Marmals	84 - A	<u></u>		NHIC List		O's 🛄 none 🗌		not provid	ed to co	ollector	
Temp: Vind: 1 Cloud Cover (%) Prescipitation 0. Calm '5 Direction: S Vind Felder: 2. Wind Felder: 3. Leaves in constant motion Marmals	WEATH	ER CONDITIONS				WIN	DSC	CALE			
7 Direction: S Yesterday: 1 Snoke Drifts DATA FOCUS 3 Leaves in constant motion 4 Mammals X Floral VS4_AApuate - Physical 5 Small tees sway Amphibians 1_2_3 Wetland Aquate - Physical 5 Small tees sway Amphibians 1_2_3 Wetland Aquate - Physical 6 Large branches were Reptiles Butternut Faunal Habitat 7 Lots of restance when walking into Inverterbrates other SAR Mapped Yes No Who BamsFootings/Wellsother(list) Mapped Yes No Who BamsFootings/Wellsother(list) Mapped Yes No Who Brash Pies Site of restance when walking into Site of restance when walking into Serintel Tees Mapped Yes No Who Brash Pies Site of restance when walking into Site of restance when walking into Serintel Tees Mattra Vogetation: None observed Site of restance when walking walking walking walking walking walking walking Serintel Tees Mastropen			11	Cloud Cover (%) Precipita						
Unrector: Yesterday: 2 Wind Field on Face Shark FOCUS 3 Leaves in constant motion Mammals Floral VS4_A Aquatic - Physical 4 Wind sizes dust and paper Mammals Floral VS4_A Aquatic - Physical 5 Small trees sway Reptiles Buternut Paunal Habitat 5 Large branches sway FEATURES (with GPS co-ordinates where applicable) Man-made Structures: X None observed Limbs breaking off trees FEATURES (with GPS co-ordinates where applicable) Man-made Structures: X None observed Limbs breaking off trees Barns/Footings/Wells/other/list) Rock Piles Ves No Whoe Barns/Footings/Wells/other/list) None observed Limbs breaking off trees Falen Logs outside woods (#s) Image structures: Image structures Image structures Mast Trees (8c) Berry Shrubs (8c) Image structures Image structures Windiffe Features: Image structures Image structures Image structures Windiffe Features: Image structures Image structures Image structures Mast Trees (8c) <td></td> <td></td> <td>s</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>S</td> <td></td> <td></td>			s				-		S		
DATA FOCUS 3 Leves in constant motion Mammals K Floral VS_A_ Apudto - Physical 5 Mail trees sway Amphibians 1_2_3_ Welfand Apudto - Physical 5 Large branches sway Amphibians 1_2_3_ Welfand Apudto - Physical 6 Large branches sway Amphibians 1_2_3_ Welfand Apudto - Physical 6 Large branches sway Total for the state Burts Philes Sample branches sway 7 Lots of resistance when walking into Barsh Footings/Wels/Wels/ther(list) Barsh Footings/Wels/dels/ther(list) Mapped Yes No Who Barsh Footings/Wels/dels/ther(list) Sample branches Image <		Direction:					2	Wind Felt or	n Face		
Mammals Yiotal VSk_A Aquadic - Physical 6 Large branches sway Reptiles Butternut Faunal Habitat 7 Lick of resistance when waking into the skan when waking into the skan when waking off trees Manmade Structures: Mapped Follow-up Req'd Water Skan when waking into the skan waking into the skan when waking into the skan waking into the skan when waking into the skan waking into the	DATA F	ocus				/	3	Leaves in c	onstant i	notion	
Mammals Yiotal VSk_A Aquadic - Physical 6 Large branches sway Reptiles Butternut Faunal Habitat 7 Lick of resistance when waking into the skan when waking into the skan when waking off trees Manmade Structures: Mapped Follow-up Req'd Water Skan when waking into the skan waking into the skan when waking into the skan waking into the skan when waking into the skan waking into the		Birds 1 2		ELC's		Dripline	4	Wind raises	dust an	d paper	
Amphibians 1_ 2_ 3_ Weitand Aquadc - Biological 6 Linge branches sway Faunal Habitat Falural Habitat Falural Habitat Falural branches sway FEATURES (with GPS co-ordinates where applicable) Mapped Follow-up Req'd Man-made Structures: Mone observed Weis No Barns/Footings/Weils/other(list) Mone observed Yes No Garbage Image Structures: None observed Image Structures: Image Structures: Brush Piles Snags (raktor perch) Image Structures: Image Structures: Image Structures: Image Structures: Brush Piles Snags (raktor perch) Image Structures: Image Structures: Image Structures: Image Structures: Waterfowinesting (large #s, # of species) Image Structures: Image Structures: Image Structures: Image Structures: Image Structures: Image Structures: Waterfowinesting (large #s, # of species) Image Structures: I			×	Floral V Sk. A			5	Small trees	sway		
Reptiles Butternut Faunal Habitat I clubs of resistance when walking off trees FEATURES (with OPS co-ordinates where applicable) Mapped Follow-up Req'd Man-made Structures: Imbs breaking off trees No Rock Piles Yes No Rock Piles Imbs breaking off trees No Rock Piles Imbs breaking off trees Imbs breaking off trees Batural Vegetation: Imbs breaking off trees Imbs breaking off trees Snagk (raptor perch) Imbs breaking off trees Imbs breaking off trees Sentinel Trees (05) Berry Shrubs (65) Imbs breaking off trees Widtle Feetures: Imbs breaking wallows) Imbs breaking wallows) Stick Nesting Imbs breaking wallows) Imbs breaking wallows) Stick Nesting wallows) Imbs breaking wallows) Imbs breaking wallows) Stick Nesting wallows) Imbs breaking (raptor perch) Imbs breaking wallows) Stick Nesting wallows) Imbs breaking (raptor perch) Imbs breaking wallows) Stick Nesting dwith researches Imbs breaking (raptor perch) Imbs breaking (raptor perch) Tree Cavifi		Amphibians 1 2 3					6	Large brand	hes swa	ıy	
Inverterbrates other SAR B Imbs breaking off trees FRATURES (with CPS co-condinates where applicable) Mapped Follow-up Req2 Man-made Structures: X None observed Yes No Barns/Footings/Wells/other(list) X None observed Imbs breaking off trees Gatbage X X None observed Imbs breaking off trees Gatbage X X None observed Imbs breaking off trees Gatbage X X None observed Imbs breaking off trees Fallen Logs outside woods (#s) X None observed Imbs breaking off trees Startures: Sangs (raptor perch) Imbs breaking off trees Imbs breaking off trees Mast Trees (6E) Berry Shrubs (6E) Imbs breaking wallows) Imbs breaking wallows) Imbs breaking wallows) Stick Nests Imbs breaking wallows) Imbs breaking wallows) Imbs breaking wallows) Imbs breaking wallows) Stick Nests Imbs breaking wallows) Imps breaking wallows) Imps breaking wallows) Imps breaking wallows) Stick Nests				Butternut			7	Lots of resis	stance w	hen wall	king into
Mar-made Structures: X None observed Yes No Who Bans/Footings/Wells/other(list)				other SAR			8	Limbs break	king off t	rees	-
Barns/Footings/Wells/other(list)	FEATUR	RES (with GPS co-ordin	ates wh	ere applicable)				Mapped	Foll	ow-up R	
Rock Piles	Man-ma					None observed			Yes	No	Who
Garbage Image: Carbage (applied in the second of the s			ther(list)	I							
Natural Vegetation: Image: None observed Fallen Logs outside woods (#'s) Image: None observed Brush Piles Image: None observed Sentinel Trees Image: None observed Mast Trees (6E) Berry Shrubs (6E) Wildife Features: Image: None observed Waterfowl nesting (large #'s, # of species) Image: None observed Stok Nests Image: None observed Animal Burrows (>10cm) Image: None observed Heronry Image: None observed Crafifsh mounds Image: None observed Mastrivepen country/shrub Image: None observed Winter Deer yards Image: None observed Bat corridor (shorelines, escarpments) Image: None observed Bat corridor (shorelines, escarpments) Image: None observed Perm. pond in woodland Image: Period Image: None observed Image: None observed Image: None observed Image: None observed Nater in woodland Image: Image: None observed Image: None observed Image: None observed <td></td>											
Fallen Logs outside woods (#s)											
Brush Piles	Natural				X	None observed			 .		
Snags (raptor perch)			ods (#'s)							
Tree Cavities (nesting)											
Sentinel Trees										1	
Mast Trees (6E) Berry Shrubs (6E) Wildlife Features: \[] None observed Wildlife Features: \[] None observed Barts (nesting swallows)											
Wildlife Features: None observed Waterfowl nesting (large #'s, # of species)											
Waterfowl nesting (large #'s, # of species)				Berry Shrubs (6E)							
Exposed Banks (nesting swallows)	Wildlife				LX	None observed					
Stick Nests											
Animal Burrows (>10cm) Herony Herony Image: Crayfish mounds Crayfish mounds Image: Crayfish mounds Sand/gravel on site Image: Crayfish mounds Marsh/open country/shrub Image: Crayfish mounds Winter Deer yards Image: Crayfish movement) Corridor from pond to woods (ampibian movement) Image: Crayfish movement) Bat corridor (shorelines, escarpments) Image: Crayfish movement) Bat hibernacula (caves, mines, crevices, etc.) Image: Crayfish movement, Submergents/logs Perm. pond in woodlandemergents/submergents/logs Image: Crayfish movement, Submergents/logs Perm. pond in woodlandpoolsfitowingBry Image: Crayfish movement, Submergents/logstemp. Water ways flowing dry poolsfitowingBry Image: Crayfish movement, Submergents/logstemp. Water ways flowing dry poolsfitowingBry Image: Crayfish movement, Submergents/logstemp. Seeps/Springs			g swallo	WS)							
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Marsh/open country/shrub Winter Deer yards Corridor from pond to woods (ampibian movement) Bat corridor (shorelines, escarpments) Bat hibernacula (caves, mines, crevices, etc.) Aquatic Features: Perm. pond in woodland emergents/submergents/logs temp. Water in woodland pools flowing dry water area atral stream aswale astal beens/springs astal astal beens/springs astal beens/springs astal astal astal astal astal beens/springs astal astal astal astal beens/springs astal astal astal beens/springs astal astal astal beens/springs astal astal <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				•							
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Bat corridor (shorelines, escarpments) Bat hibernacula (caves, mines, crevices, etc.) Aquatic Features: Perm. pond in woodland emergents/submergents/logs temp. Water in woodland pols flowing dry Water and stream swale open drain seeps/Springs Incidental Observations:			voods (a	mpibian movement	1						
Bat hibernacula (caves, mines, crevices, etc.) Aquatic Features: Perm. pond in woodland Perm. pond in open emergents/submergents/logs Water in woodland pools Waterways flowing dry Mater in woodland pools matural stream popen drain popen drain <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					,						
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Perm. pond in open emergents/submergents/logs temp. Water in woodland pools diving Waterways flowing dry natural stream			d 🗌 e	emergents/submerg	ents/logs	temp.					
Water in woodland pools flowing dry pools matural stream										1	
natural stream											
iswale		Waterways flow	ing	dry pools							
open drain	[natural stream									
Seeps/Springs Image: Control of the second sec					X	None observed					
Incidental Observations:			j								
Image: Sector of the sector						• · · - ·					
Graphic Attached or Name Checked by Project Manager Date:	Inciden	tal Observations:								ļ	ļ
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GENERAL SITE INFORMATION FIELD SHEET Project: <u>Glover - Port</u> Stanley

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	Date:	Oct.	T	10	15
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Project Manager: DM Visit #: ろ

WH

Time finished: 10:25 Combined collectors' hours: 1

NHIC List MNR EO's none X not provided to collector

WEATHER CONDITIONS WIND SCALE										
Temp.	Wind:	31	Cloud Cover (%)	Precipitatio			Calm			
<u> </u>	Direction:	N9	10	Today: ກ		the second s	Smoke Drift			
				Yesterday:	no		Wind Felt or			
DATA	FOCUS						Leaves in c			
	Birds 12		ELC's		ripline		Wind raises		d paper	
×	Mammals	X	Floral VSA <u>×</u>		quatic - Physical		Small trees			
	Amphibians 1_2_3_		Wetland		quatic - Biological		Large brand			
	Reptiles		Butternut	F F	aunal Habitat		Lots of resis			ti ng into
	Inverterbrates			8	Limbs breaking off trees					
	FEATURES (with GPS co-ordinates where applicable)						Mapped Follow-up Req'd			
Man-m	ade Structures:			X N	one observed			Yes	No	Who
	Barns/Footings/Wells/	/other(list))							
	Rock Piles									
	Garbage									
Natura	tural Vegetation:									
	Fallen Logs outside w	oods (#'s)							
	Brush Piles									
	Snags (raptor perch)									
	Tree Cavities (nesting)								
	Sentinel Trees									
	Mast Trees (6E)		Berry Shrubs (6E)							
Wildlif	e Features:			XN	one observed					
	Waterfowl nesting (lar									
	Exposed Banks (nest	ing swallc	ows)							
	Stick Nests									
	Animal Burrows (>100	cm)								
	Heronry		·····							
	Crayfish mounds									
	Sand/gravel on site									
	Marsh/open country/shrub									
	Winter Deer yards									
	Corridor from pond to	woods (a	ampibian movement)							
	Bat corridor (shorelines, escarpments)									
	Bat hibernacula (caves, mines, crevices, etc.)									
Aquati	ic Features:									
	Perm. pond in woodla	and 🗌	emergents/submergent		temp.					
	Perm. pond in open		emergents/submergent		temp.					
	Water in woodland	pools								
	Waterways flow	wing	dry pools							
	natural stream									
	☐ swale				lone observed					
	open drain									
	Seeps/Springs									
Incide	ntal Observations:	_								
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