



MTE File No.: 48807-100
MTE Contact: Dave Hayman
Project Name: 1095-1185 North Talbot Road
 Natural Environment
Date: April 29, 2021

Client/Owner: Bellocorp (Main Contact: Tosin Bello)
Address: 55 Lebovic Avenue, Toronto, ON, M1L 2TZ
Email: bellocorpdevelopments@gmail.com

Assessment: The Subject Lands provide potentially suitable nesting habitat for Yellow-breasted Chat [END]. Presence/ absence of this species will be determined through field investigations in 2021. If Yellow-breasted Chat [END] are not observed nesting within the Subject Lands, encounters with this species are expected to be incidental. Butler’s Gartersnake [END] and Eastern Foxsnake [END] were reported by ORAA within 10km of the Subject Lands. However, NHIC records indicate that observations of Butler’s Gartersnake [END] and Eastern Foxsnake [END] are at least 2km and at least 4km from the site, respectively, and the site is isolated from the records and suitable habitats by significant movement barriers, such as residential development, roads, and divided highways. Additionally, the site has limited area of suitable habitat to support isolated populations of these species. Therefore, Butler’s Gartersnake [END] and Eastern Foxsnake [END] are not expected to be using the site. Although unlikely, incidental encounters with protected reptiles will be managed following the general mitigation measures provided (Page 3 and Appendix B). If Yellow-breasted Chat is not observed to be using the Subject Lands during breeding bird surveys, and provided mitigation measures are followed, is our opinion that MECP will not consider the proposed activity to be in contravention of the ESA.

Property Information:	See Location Figure Attached [Figure 1]	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Lot, Concession, County, City:	Lot 306, Essex County, City of Windsor	
GPS Centroid:	17T 336652mE 4678617mN	
Figures and Background Data Attachments:	Site Location Map Attached [Figure 1]	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Vegetation Map Attached [Figure 2]	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Site Photos Attached [Figure 3]	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Proponent Proposal [Figures 4]	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	NHIC Data Attached	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (1km ² 17LG3678)
	Ontario Breeding Bird Atlas Attached	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (10km ² , 17LG37)
	eBird Data Attached	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (2km radius)
	Ontario Reptile and Amphibian Atlas Attached	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (10km ² , 17LG37)
	iNaturalist Data Attached	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (2km radius)
	Mitigation Measures [Page 3 & Appendix B]	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Field Sheets [Appendix A]	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Aquatic SAR Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Similar to LIO Maps?	<input checked="" type="checkbox"/> Similar <input type="checkbox"/> Not Similar Explanation:	
Site Description, Current Status of Vegetation and History of Maintenance	<p>The Subject Lands are located southeast of the intersection of North Talbot Rd and Southwood Lakes Blvd in the City of Windsor. The Subject Lands are primarily overgrown fields with a history of clearing and the surrounding area is primarily residential.</p> <p>Three vegetation communities were assessed within the Subject Lands.</p>	



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<p>Site Investigation Dates: March 9, 2021 March 22, 2021</p>	<p>Community 1 is an Eastern Red Cedar and Red Maple dominant Mineral Cultural Thicket community (CUT1) located in the east of the Subject Lands. Gray Dogwood, Common Buckthorn and Red Maple dominate the sub-canopy. At the time of the site visit, the area was recently cut by hand to approximately 2 to 5 metres in height.</p> <p>Community 2 is a Mineral Cultural Thicket community (CUT1) located directly west of Community 1. This vegetation community is dominated by Eastern White Pine, Norway Spruce and Eastern Cottonwood in the canopy. American Elm, Red Ash and Bur Oak dominate the sub-canopy. The understorey is largely comprised of Gray Dogwood, Common Buckthorn and Hawthorn.</p> <p>Community 3 is an Eastern Cottonwood dominant Mineral Cultural Meadow community (CUM1). This community is in the northwest corner of the Subject Lands and extends into adjacent lands to the west. The understorey is dominated by Multiflora Rose and Gray Dogwood.</p>
<p>Site Investigations Summary Based on Review of Background Information and Current Site Conditions</p>	<p>The Natural Heritage Information Center (NHIC) identifies Endangered [END], Threatened [THR] and other rare species with the potential to be found on or near the Subject Lands [Attached]. Additional life science data available for the general area was also reviewed [Attached].</p> <p>Life Science Surveys: General Field Investigation Vegetation – A three-season floral inventory (ongoing); ELC Amphibian Monitoring Survey (ongoing)</p> <p>Results of Site Investigations [Field Sheets]:</p> <ul style="list-style-type: none"> Although field investigations are still ongoing, no Protected Species have been identified within the Subject Lands

<p>Proposed Activities</p>	
<p>Description of Proposal:</p>	<p>The proponent is proposing the development of a residential subdivision containing 34 units with associated roads.</p>
<p>Timing and Duration of Proposed Activity: 2021-2026</p>	
<p>History and Planning</p>	
<p>Planning Amendments:</p>	<p>A zoning amendment is required to remove the holding provision from the parcel. Based on Official Plan designations, the City of Windsor has confirmed that an EER is not required for the application.</p>
<p>Existing Status:</p>	<p>Official Plan: Residential Zoning: Residential Division zoning with a holding provision (HRD1.4)</p>
<p>Past MECP Correspondence , if any: None</p>	
<p>Summary Conclusion (NHIC and Citizen Science Data, Site Investigation)</p>	



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Based on site investigations and a review of all background data, ESA concerns on the Subject Lands are limited to potential impacts to Yellow-breasted Chat [END], Butler’s Gartersnake [END], and Eastern Foxsnake [END].

Yellow-breasted Chat [END] was identified by Citizen Science data as potentially present on or near the Subject Lands. Potentially suitable nesting habitat is present for this species in the dense shrub vegetation located within Community 2. A standard two-visit breeding bird survey will be completed in June 2021 to confirm the presence of this species. Development activities should adhere to mitigation measures and guidelines if breeding individuals are observed.

Butler’s Gartersnake [END] was identified by Ontario Reptile and Amphibian Atlas (ORAA) data, which uses 10km incidence squares, as potentially present on or near the Subject Lands. Although potential habitat for Butler’s Gartersnake [END] is present within the Subject Lands (open/moist habitats and old fields), recorded observations of this species are located more than 2km from the site. This species is only likely to travel up to 380m and the land between the observation area and the site is separated from the recorded observations by highways and residential areas with no movement corridor between the site and the observations (SARA Recovery Strategy for the Butler’s Gartersnake in Canada, 2018). Therefore, Butler’s Gartersnake [END] is not expected to be found within the Subject Lands.

Eastern Foxsnake [END] was also identified within 10km of the site by ORAA data. Although potential habitat for Eastern Foxsnake [END] is present within the Subject Lands, the surrounding area does not support habitat as it is primarily residential developments. Foxsnake [END] are listed as Restricted Species by the NHIC, and the nearest observations of Restricted Species recorded by the NHIC are at least 4km away from the site. As there are significant barriers to movement that isolate the site from the recorded observations (highways, roads, and residential development) with no potential movement corridors, and the average home range of this species is 1.5km (Carolinian Population Habitat Regulation), this species is not expected to be using the site.

Based on the lack of linkage to recorded populations, and limited amount of preferred habitat (open and edge habitats including meadows, grasslands, and savannahs), the site is not expected so support populations of Butler’s Gartersnake [END] or Eastern Foxsnake [END]. Although protected reptiles are not likely to be using the site, activities will follow mitigation measures provided (Page 3 and Appendix B) as an added measure.

It is our opinion that the proposed activity will not contravene the *ESA* as long as recommended mitigation measures are followed.

Mitigation Measures

Mitigation measures to avoid potential impacts to Yellow-breasted Chat [END], and protected reptiles should be followed to prevent against potential contraventions of the *Endangered Species Act (ESA, 2007)* or *Migratory Birds Convention Act (MBCA, consolidated 2010)*.

If the Subject Lands are not observed to be used by Yellow-breasted Chat [END] during 2021 breeding bird studies, encounters with this species during project-related construction are expected to be incidental. Construction staff will be made aware of the potential presence of Yellow-breasted Chat [END] on the construction site. Vegetation removal activities should take place outside of the nesting season (no construction from May1 – July 31). If construction occurs during nesting season, the area must be inspected by a qualified biologist for nesting birds. If no nests are located, vegetation clearing can proceed.



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Although unlikely, encounters with Butler's Gartersnake [END] and Eastern Foxsnake [END] will be mitigated to ensure the *Endangered Species Act (ESA, 2007)* is not contravened. Mitigation measures will include awareness training, strategic vegetation clearing, wildlife exclusion and erosion control fencing, equipment inspection, proper site maintenance and management, and implementation of encounter and reporting protocols (Appendix B).

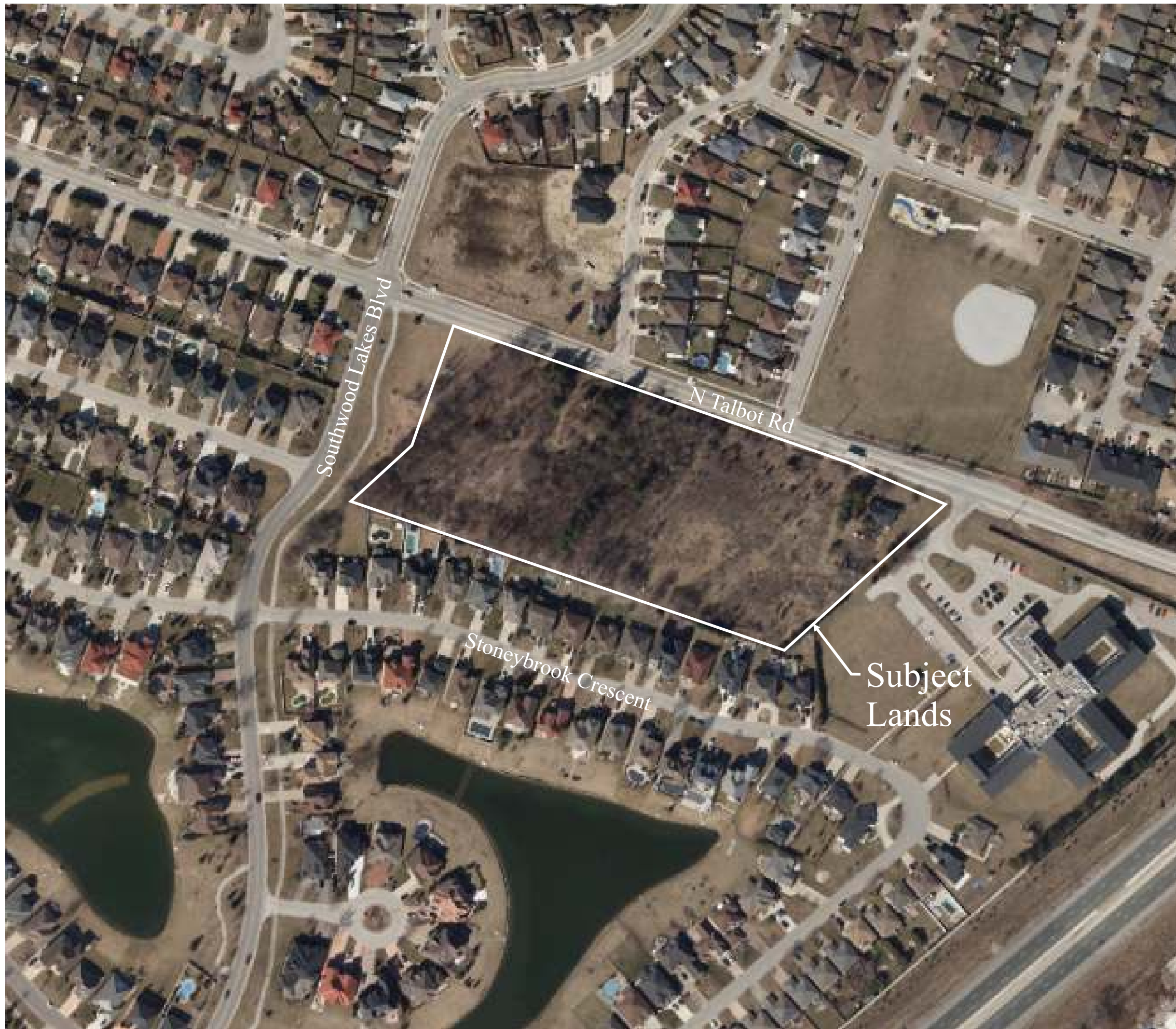


Figure 1: Site Location
(County of Essex Mapping, 2021)



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 40

Scale 1:2000

March 2021





Figure 2: Vegetation Communities
(County of Essex Mapping, 2021)



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

Legend

- 1 CUT1 - Mineral Cultural Thicket (1.02ha)
- 2 CUT1 - Mineral Cultural Thicket (1.58ha)
- 3 CUM1 - Mineral Cultural Meadow (0.23ha)

* Locations are approximate and should be verified by survey where necessary.

Print on 11X17, Landscape Orientation

0 25

Scale 1:1250

March 2021





Figure 3: Site Photos
(County of Essex Mapping, 2021)



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

Legend

- 1 CUT1 - Mineral Cultural Thicket (1.02ha)
- 2 CUT1 - Mineral Cultural Thicket (1.58ha)
- 3 CUM1 - Mineral Cultural Meadow (0.23ha)

* Locations are approximate and should be verified by survey where necessary.

Print on 11X17, Landscape Orientation

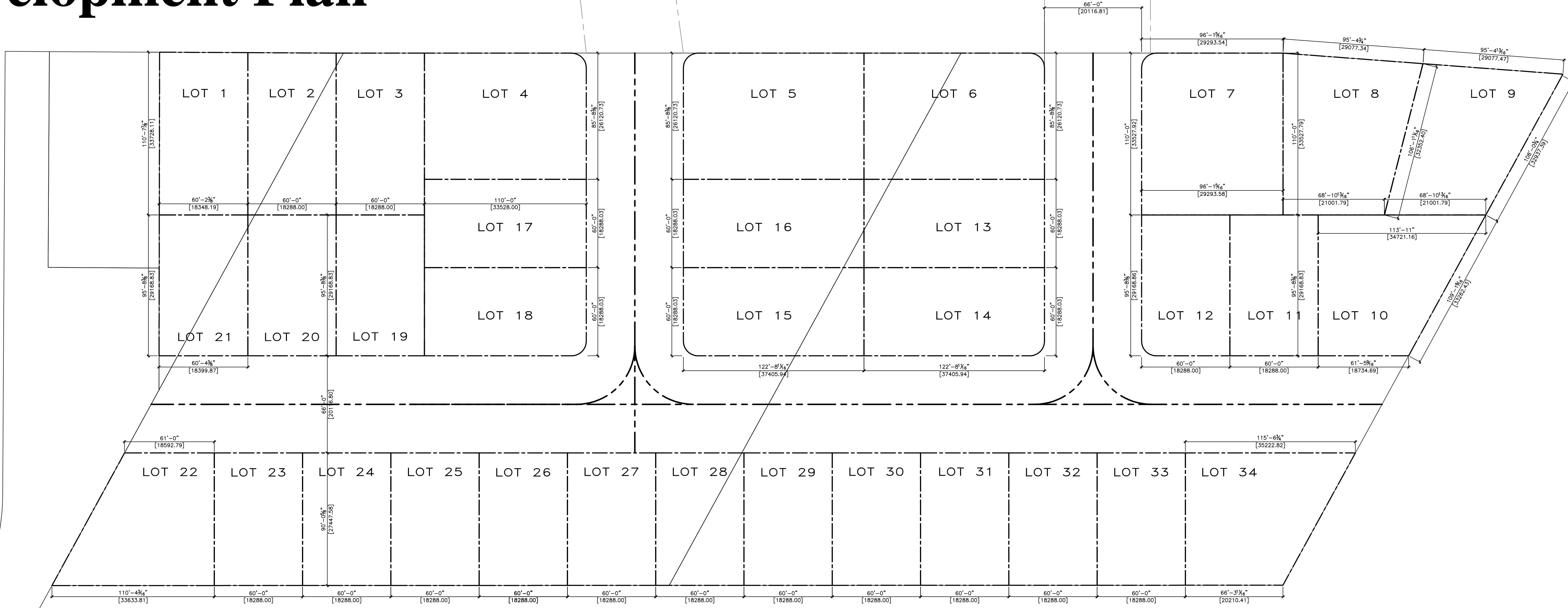
0 20

Scale 1:1000

March 2021



Figure 4: Development Plan



LAND AREA STATISTICS

EXISTING LOT 1095 NORTH TALBOT ROAD, WINDSOR = 174,477.68 S.F. = 16,209.50 S.M. = 4.005 ACRE
 EXISTING LOT 1185 NORTH TALBOT ROAD, WINDSOR = 170,027.84 S.F. = 15,796.10 S.M. = 3.903 ACRE
 TOTAL EXISTING LOT 1095 + 1185 NORTH TALBOT ROAD = 344,505.52 S.F. = 32,005.60 S.M. = 7.908 ACRE

10.4 RESIDENTIAL DISTRICT 1.4 (RD1.4)

10.4.1 PERMITTED USES
 EXISTING DUPLEX DWELLING
 EXISTING SEMI-DETACHED DWELLING
 ONE SINGLE UNIT DWELLING
 ANY USE ACCESSORY TO THE PRECEDING USES

10.4.5 PROVISIONS

- .1 LOT WIDTH - MINIMUM 18 M
- .2 LOT AREA - MINIMUM 270.0 S.M.
- .3 LOT COVERAGE - MAXIMUM 45.0 %
- .4 MAIN BUILDING HEIGHT - MAXIMUM 10.0 M
- .5 FRONT YARD DEPTH - MINIMUM 6.0 M
- .6 REAR YARD DEPTH - MINIMUM 7.5 M
- .7 SIDE YARD WIDTH - MINIMUM 1.2 M

PROPOSED SITE PLAN

SCALE: 1/32"=1'-0"
 NOTE: THIS DRAWING IS BASED ON INFORMATION PROVIDED BY THE OWNER. LEGAL TOPOGRAPHIC SURVEY REQUIRED FOR DETAIL DRAWINGS AND APPLICATION AT THE CITY HALL.

A PROJECT BY MR. TOSIN BELLO OF BELLOCORP DEVELOPMENTS INC.



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DRAWING TITLE
 EXISTING SITE PLAN

PROJECT
 PROPOSED SUB-DIVISION
 1095 NORTH TALBOT ROAD
 WINDSOR, ONTARIO N9G 1M8

09.			<p>NOTE:</p> <ul style="list-style-type: none"> - DO NOT SCALE DRAWINGS. - ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB SITE. - ANY AND ALL DISCREPANCIES TO BE REPORTED TO THE ARCHITECT. - ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECT. <p>PROJECT NO. 2064 DATE OCTOBER 2020 DRAWN BY KV/VP CHECKED BY C/JV DRAWING NO.</p> <p style="text-align: center;">A B C</p> <p style="font-size: 2em; font-weight: bold;">SP-1.0</p>
08.			
07.			
06.			
05.			
04.			
03.			
02.			
01.	OWNER'S REVIEW	OCT. 14/2020	
NO.	ISSUED FOR	DATE	



Figure 5: Development Overlay
(County of Essex Mapping, 2021)



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

Legend

- 1 CUT1 - Mineral Cultural Thicket (1.02ha)
- 2 CUT1 - Mineral Cultural Thicket (1.58ha)
- 3 CUM1 - Mineral Cultural Meadow (0.23ha)

Subject Lands

* Locations are approximate and should be verified by survey where necessary.

Print on 11X17, Landscape Orientation

0 20

Scale 1:1000

March 2021





Primary 1km ² – 17LG3678			
Common Name	Scientific Name	S Rank	SARO Status
N/A	N/A	N/A	N/A
Adjacent to Primary 1km ² – 17LG3579, 17LG3679, 17LG3779, 17LG3778, 17LG3777, 17LG3677, 17LG3577, 17LG3578			
Common Name	Scientific Name	S Rank	SARO Status
Kentucky Coffee Tree	<i>Gymnocladus dioicus</i>	S2	THR
<p>A number of relatively common and/or widespread species and habitats protected under the ESA are under-represented or unevaluated within the NHIC Database. As a result, surveyors included the following species and habitats as a component of site investigations, including: Candidate Myotis [END] Roost Trees, Butternut [END], American Chestnut [END] and habitat (burrows) for American Badger [END].</p>			
NHIC Data Review			
<p>Kentucky Coffee Tree [THR]: The Subject Lands do not offer suitable moist, rich soils for this species. There were no individuals observed during general field investigations.</p>			
Summary:			
<p>Site investigations, including a General Field Investigation and Ecological Land Classification, did not locate any species identified by NHIC within or adjacent to the Subject Lands. Based on habitat preferences, vegetation communities and features present, the Subject Lands do not contain potential habitat for Kentucky Coffee Tree [THR]. This species was not observed during site investigations.</p>			



Citizen Science Data Review

Ontario Breeding Bird Atlas (2005)

(within 10km Square 17LG37 which includes Project Site)

Species	SARO Rank	Max. Breeding Evidence	Protected or Suitable Habitat	NHIC
Bank Swallow	THR	Adult entering nest	None	No
Barn Swallow	THR	Recently fledged young	None	No
Bobolink	THR	Bird visiting site	None	No
Chimney Swift	THR	Suitable habitat	None	No
Eastern Meadowlark	THR	Adult carrying food	None	No
Yellow-breasted Chat	END	Singing male	Potential	No

eBird

(within 2 km from Project Site)

Species	SARO Rank	Observation Date	Protected or Suitable Habitat	NHIC
N/A	N/A	N/A	N/A	N/A

iNaturalist

(Research Grade; Threatened within 2km from Project Site)

Species	SARO Rank	Observation Date	Protected or Suitable Habitat	NHIC
N/A	N/A	N/A	N/A	N/A

Ontario Reptile and Amphibian Atlas

(within 10km Square 17LG37 which includes Project Site)

Species	SARO Rank	Observation Date	Suitable Protected Habitat?	NHIC
Butler's Gartersnake	END	2017	Potential	No
Eastern Foxsnake	END	2018	Potential	No
Massasauga	END	2017	None	No

Additional Citizen Science Data Summary Review

A number of species protected under the *ESA* (2007) have been identified through various citizen science projects within the vicinity of the Subject Lands. Habitat requirements for these species were reviewed and compared to the vegetation communities present within the Subject Lands.

Bank Swallow [THR]:

There are no vertical banks of silt or sand deposits within the Subject Lands to provide nesting opportunities for this species, and no individuals of this species were observed during field investigations.

Barn Swallow [THR]:

No suitable nesting habitat structures, including barns and buildings, are present within the Subject Lands to provide nesting opportunities for this species. No individuals were observed within the Subject Lands during site investigations.



Citizen Science Data Review

Bobolink [THR] & Eastern Meadowlark [THR]:

No tall grass meadows were identified within or adjacent to the Subject Lands to provide nesting opportunities for grassland birds. No Bobolink [THR] or Eastern Meadowlark [THR] individuals were observed during field investigations.

Chimney Swift [THR]:

There are no suitable chimney structures or buildings within the Subject Lands to provide this species with roosting opportunities. No individuals were observed during field investigations.

Yellow-breasted Chat [END]:

There is suitable nesting habitat for this species (overgrown thickets and shrub) within the Subject Lands. No individuals were identified within the Subject Lands during site investigations.

Butler's Gartersnake [END]:

There is suitable habitat for this species (open, moist habitats and old fields) within the Subject Lands. Potential hibernacula (potential crayfish burrow habitat, rock piles) was also observed within the Subject Lands. However, the Ontario Reptile and Amphibian Atlas (ORAA) data uses 10km incidence squares and Butler's Gartersnake [END] were not recorded by the NHIC within or adjacent to the site. NHIC records for this species are at least 2km away, and the intervening area is dense residential, with highways and roads posing significant movement barriers. Therefore, the presence of this species within the Subject Lands is unlikely. No individuals were identified during field investigations.

Eastern Foxsnake [END]:

There is suitable habitat (old fields, hedgerows, fallen logs) within the Subject Lands. Rock piles observed on site may provide suitable hibernaculum. No individuals were observed during site investigations. However, the Ontario Reptile and Amphibian Atlas (ORAA) data uses 10km incidence squares and observations of restricted species (which include Eastern Foxsnake [END]) were not recorded by the NHIC within or adjacent to the site. NHIC records for restricted species are at least 4km away, and the intervening area is dense residential, with highways and roads posing significant movement barriers. Therefore, the presence of this species within the Subject Lands is unlikely. No individuals were identified during field investigations.

Massasauga (Carolinian Populations) [END]:

There are no tall grass prairies, bogs, marshes, forests, or shorelines to provide suitable habitat for this species. No individuals were observed during field investigations.

Summary: Citizen Science Data

The Subject Lands may contain suitable habitat for Yellow-breasted Chat [END]. Suitable habitat is also present for Butler's Gartersnake [END] and Eastern Foxsnake [END], however, records of these species are from at least 2km and 4km away, respectively, and the site is isolated by dense residential development and significant movement barriers (roads and highways). No individuals of the above listed species were observed during site investigations. No suitable habitat for any of the other above listed Protected Species were identified within the Subject Lands based on previously discussed investigation results and background data review (Ontario.ca).

Appendix A

Field Sheets



GENERAL SITE INFORMATION FIELD SHEET

Project: 48807-100 1095 North Talbot Rd.
 Date: Mar 9, 2021 Project Manager: _____
 Collector(s): WH Visit #: _____
 Time started: 14:00 Time finished: 15:30 Combined collectors' hours: 1.5
 NHIC List MNR EO's none not provided to collector

WEATHER CONDITIONS				WIND SCALE				
Temp.	Wind:	0	Cloud Cover (%)	Precipitation	0	Calm		
13°	Direction:	—	beauty day-0	Today: 0 Yesterday: 0	1	Smoke Drifts		
DATA FOCUS								
<input type="checkbox"/>	Birds 1_2_Mig	<input checked="" type="checkbox"/>	ELC's	<input type="checkbox"/>	Dripline/Tree Survey	4	Wind raises dust and paper	
<input type="checkbox"/>	Mammals	<input type="checkbox"/>	Floral V__S__A__	<input type="checkbox"/>	Aquatic - Physical	5	Small trees sway	
<input type="checkbox"/>	Amphibians 1_2_3_	<input type="checkbox"/>	Wetland	<input type="checkbox"/>	Aquatic - Biological	6	Large branches sway	
<input type="checkbox"/>	Reptiles	<input type="checkbox"/>	Butternut (BHA)	<input checked="" type="checkbox"/>	Faunal Habitat	7	Lots of resistance when walking into	
<input type="checkbox"/>	Invertebrates	<input type="checkbox"/>	other SAR	<input type="checkbox"/>	Other - see notes	8	Limbs breaking off trees	
FEATURES (with GPS co-ordinates where applicable)					Mapped		Follow-up Req'd	
Man-made Structures: <input type="checkbox"/> None observed					UTM	Yes	No	Who
Yes No								
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Barns/Footings/Wells/other(list)						
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rock Piles <u>? depth</u>			✓	✓		SNAKES
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Garbage						
Natural Vegetation: <input type="checkbox"/> None observed								
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fallen Logs outside woods (#s)	<u>recently pushed with DOZER</u>		✓	✓	✓	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Brush Piles			✓	✓		"
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Snags (raptor perch)						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tree Cavities (nesting)						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sentinel Trees						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Butternut Identified						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mast Trees (6E)	<input type="checkbox"/> Berry Shrubs (6E)					
Wildlife Features: <input type="checkbox"/> None observed								
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Waterfowl nesting (large #s, # of species)						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed Banks (nesting swallows)						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stick Nests						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Animal Burrows (>10cm)						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Heronry						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Crayfish mounds <u>candidate habitat</u>				✓		Summer
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sand/gravel on site						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Marsh/open country/shrub						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Winter Deer yards						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Corridor from pond to woods (ampibian movement)						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bat corridor (shorelines, escarpments)						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bat hibernacula (caves, mines, crevices, etc.)						
Aquatic Features:								
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Perm. pond in woodland	<input type="checkbox"/> emergents/submergents/logs	<input type="checkbox"/> temp.				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Perm. pond in open	<input type="checkbox"/> emergents/submergents/logs	<input type="checkbox"/> temp.				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water in woodland	<input checked="" type="checkbox"/> pools <input type="checkbox"/> flowing <input type="checkbox"/> dry					
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Waterways	flowing dry pools					
<input type="checkbox"/>	<input type="checkbox"/>	natural stream	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>	swale	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> None observed				
<input type="checkbox"/>	<input type="checkbox"/>	open drain	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>	Seeps/Springs	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
Incidental Observations/Notes:								
<u>- Road R.O.W. cleared recently.</u>								
<u>- Neighbours S. have created brushpiles for habitat through improper management i.e. construction garbage</u>								
<u>- no PROTECTED species found but candidate nesting and hibernacula should be checked again.</u>								

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: 43807-100		POLYGON:	
	SURVEYOR(S): WN	DATE: May 9, 2021	TIME: start	finish
	UTMZ:	UTME:	UTMN:	

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	3	JUN/VIC = ACER rub
2 SUB-CANOPY	4	4	CORN rac > RHAM cat > ACER rub
3 UNDERSTOREY			
4 GRD. LAYER			

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

CVR CODES 0 = NONE 1 = 0% < CVR 10% 2 = 10 < CVR 25% 3 = 25 < CVR 60% 4 = CVR > 60%

STAND COMPOSITION:	BA:
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SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
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STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50
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DEADFALL / LOGS:	< 10	10 - 24	25 - 50	> 50
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ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

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

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

COMMUNITY CLASSIFICATION:

ELC CODE

COMMUNITY CLASS:	CULTURAL	CU
COMMUNITY SERIES:	THICKET	CUT
ECOSITE:	MINERAL	CUT1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: RECENTLY CUT BY HAND OF 2-5 m HIGH

ELC MANAGEMENT / DISTURBANCE	SITE:				
	POLYGON:				
	DATE:				
	SURVEYOR(S):				
DISTURBANCE EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: 48807-100		POLYGON: 2	
	SURVEYOR(S): WH		DATE: Mar 4, 2024	TIME: start finish
	UTMZ:	UTME:	UTMN:	

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			PI Nu str = PICEabi = POPUdel
2 SUB-CANOPY			UL Milane = FRAXpen > QUSR mac
3 UNDERSTOREY			CORN rac > RHAM cat > CORN ser > CRAT sp
4 GRD. LAYER			

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

CVR CODES 0 = NONE 1 = 0% < CVR 10% 2 = 10 < CVR 25% 3 = 25 < CVR 60% 4 = CVR > 60%

STAND COMPOSITION:	BA:
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SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
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STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50
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DEADFALL / LOGS:	< 10	10 - 24	25 - 50	> 50
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ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

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

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CU
COMMUNITY SERIES:	CUT
ECOSITE:	CUT1
VEGETATION TYPE:	
INCLUSION	
COMPLEX	

Notes:

ELC MANAGEMENT / DISTURBANCE	SITE:				
	POLYGON:				
	DATE:				
	SURVEYOR(S):				
DISTURBANCE EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: 48807-102	POLYGON: 3	
	SURVEYOR(S): WH	DATE: MAR 9 2021	TIME: start finish
	UTMZ:	UTME:	UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	34	1	POPULDEL
2 SUB-CANOPY			
3 UNDERSTOREY	5	1	ROSAmut > CORNrac
4 GRD. LAYER			

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

CVR CODES 0 = NONE 1 = 0% < CVR 10% 2 = 10 < CVR 25% 3 = 25 < CVR 60% 4 = CVR > 60%

STAND COMPOSITION:	BA:
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SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
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STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50
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DEADFALL / LOGS:	< 10	10 - 24	25 - 50	> 50
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ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

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

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

COMMUNITY CLASSIFICATION:

ELC CODE

COMMUNITY CLASS:	CULTURAL	CU
COMMUNITY SERIES:	MEADOW	CUM
ECOSITE:	MINERAL	CUM1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC MANAGEMENT / DISTURBANCE	SITE:				
	POLYGON:				
	DATE:				
	SURVEYOR(S):				
DISTURBANCE EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Appendix B

Mitigation Measures

GENERAL MITIGATION MEASURES FOR CONSTRUCTION ADJACENT TO HABITAT FOR SAR REPTILES

1. Awareness - Prior to conducting any work on site, project personnel and contractors should be made aware of the possible presence of protected snakes and their protection under the ESA 2007. Information materials to aid in species identification and encounter response should be provided to all personnel on site.

2. Vegetation Clearing – Vegetation clearing, including grubbing, will occur when weather conditions are suitable to allow reptiles to flee (sunny and at least 18°C). Vegetation clearing and grubbing will occur in an orderly and systematic manner to direct wildlife movement in one direction, and to reduce the possibility of wildlife encounters with equipment. Vegetation clearing will occur under the supervision of a qualified biologist to ensure no reptiles or other Protected Species are harmed. Clearing of vegetation can occur without the supervision of a qualified biologist if it occurs during the inactive season (between December 1 and March 31) and no grubbing or below-ground works are undertaken. Vegetation clearing during the inactive season should be performed in a manner that avoids soil compaction; vegetation can be cleared by hand, or cleared while the soil is frozen with light machinery that is equipped to reduce compaction. Removal of candidate bat maternity roost trees (trees with cavities or loose bark) must occur between September and April, outside the active bat season.

3. Exclusion Fencing – Once vegetation has been cleared, geotextile fencing should be installed as snake exclusion barrier along the construction boundary. The geotextile fence should be at least 1.0 meters high from grade at all locations and buried at least 0.2 meters below grade. Exclusion fencing should extend out from its terminal edges by a distance of at least 5 meters and angle out or back at a 45° angle (whichever is most beneficial) to direct wildlife away from the construction site. Installation of fencing during the active season (April 1 to November 30) will be supervised by a qualified biologist. Outside the active season, fencing may be installed without the supervision of a qualified biologist.

4. Erosion Control – To prevent entanglement of wildlife, including Protected Snakes, mesh or netting-type material must not be used for erosion control. Net-free materials, such as Curlex Net-Free blanket, riprap over geotextile fabric, or similar alternative is recommended.

5. Equipment Inspection - Between April 1 and November 30th, all equipment and machinery that is left idle for over 1 hour, or overnight, on the property must be visually examined prior to (re)ignition, to ensure reptiles are not present within the machinery. This visual examination should include all lower components of the machinery, including operational extensions and running gear.

6. Encounters and Reporting - Any SAR or protected wildlife that is encountered on site must be protected from harm and harassment. Should a protected reptile be observed in the work area and presumed to be unharmed, all project personnel and operating machinery should maintain a minimum 30-meter distance from it at all times until it has left the area. Contact MECP immediately if this cannot be done. A large Rubbermaid-type container with ventilated lid should be kept on site at all times in the

event a SAR is injured or killed during the project. If a SAR is injured, it should be immediately transported in the container to a licensed Wildlife Custodian. During transport, the snake inside the container should be maintained at a temperature between 10 and 30°C. MECP will be contacted immediately if any SAR are harmed or killed during construction.

7. Site Management

The property should be clean and free of debris for any activities that occur during the active season for reptiles (April 1st to November 30th). Snakes may find and occupy materials and equipment stored on site and could be harmed when materials and debris are handled or used. The creation and duration of debris stockpiles within the development footprint should be limited. Materials such as excavated soils, lumber, and other construction materials should only be stored in areas that previously had understorey vegetation (1m or shorter), mowed to a height of 5 cm or shorter. Excavated soil should not be stored on the sites long term. Flat materials such as plywood or rubber mats should not be left lying on the ground. Any material stockpiles created on the property during the project must be visually examined for reptiles prior to disturbance or removal.

8. Site Maintenance – Cleared areas should be maintained at a height of 7-10cm. Allowing grass to grow greater than 15 cm in height could attract snakes to the construction sites.