

2018 Town of Saugeen Shores, Supplement Significant Woodland Study - Bay Street Area

**Within the Settlement of Southampton;
Woodlands West of Highway 21, North of South
Street and South of Island Street**

PREPARED FOR

Chantry Developments Inc.

PREPARED BY

AWS

ENVIRONMENTAL CONSULTING INC.

Operating as Aquatic and Wildlife Services

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1 Executive Summary

AWS Environmental Consulting Inc. (AWS) was retained by Chantry Developments Inc. to address the Town of Saugeen Shores Significant Woodlands Policy, which currently does not permit development or site alterations within significant woodlands beyond those studied under the 2012 Significant Woodland Review process. The proponent is in the process of acquiring several property parcels which are vacant-forested lands in the Bay Street area of Southampton for the purpose of residential development. AWS completed in February 2018 a Natural Heritage Environmental Impact Study (EIS) for property parcels (Morton 2018) situated within this studies 'Project Area', at the request of the current landowner and direction of Town, County Staff.

That noted EIS report demonstrated and concluded that with appropriate site development mitigation measures through sensitive land avoidance, forested buffer zone retention, and supportive Tree Conservation/Preservation Plan, no negative impacts would be anticipated to the identified significant natural environment features or ecological functions within those Study Lands or their immediate adjacent lands. With said EIS mitigative measures implemented, site development would be in compliance with the Natural Heritage Policies of the 2014 Provincial Policy Statement and the 2010 Bruce County Official Plan. However, site development could not proceed based on agency review comments to the EIS, in relation to the Town's current Official Plan policies for Significant Woodlands. Through consultation discussions and a meeting of June 2018 with Town staff and the proponents consulting team, direction was provided for a 'next step approach' for potential development to proceed through submission of a 'Supplemental Significant Woodlands Study' similar to and following guidance of the Town of Saugeen Shores Significant Woodlands Study of October 2012.

2 Introduction

The 2012 Town of Saugeen Shores, Significant Woodlands Study (TSSWS) identified two project areas within the settlement of Southampton. Project Area 1 was primarily those forested lands north of the Saugeen River and Project Area 2 was a small shoreline woodland area on Horseshoe Bay.

It should be noted that AWS had completed several EIS technical reports from years 2009 to 2011 within Project Areas 1 and 2 (as identified throughout the 2012 SWS report). All of the submitted EIS reports were generally accepted by review agencies but site development could not proceed due to the overriding 2006 Town of Saugeen Shores Official Plan policy section 3.11.3.1.5 (c) which at that time stated:

Council acknowledges the need to identify 'significant woodlands' to be protected from negative impacts that may be associated with development. The Town will work in partnership with the Saugeen Valley Conservation Authority, Bruce County and landowners to complete a Comprehensive Woodlands Study to identify significant woodlands within the Local Official Plan area. Until the recommendations of such a Comprehensive Woodlands Study are incorporated into this Official Plan by way of future amendment, within the Settlement Area of Saugeen Shores all woodlands having an area of four (4) hectares (10 acres) or greater shall be considered 'significant woodlands'. Development or site alteration shall not be permitted within significant woodlands.

As such, the Town undertook the 2012 Significant Woodland Study and incorporated its findings into the 2012 Town of Saugeen Shores Official Plan review. Subsequently, residential site development was permitted to proceed within Significant Woodlands for Project Areas 1 and 2, through adoption of the 2012 SWS and incorporation of said study into the 2012 Town of Saugeen Shores Official Plan.

This technical report is being submitted for review and approval to the Town and County as a supplement to the 2012 Town of Saugeen Shores Significant Woodland Study for 'Project Area 3', delineated on Figure No. 1, described as the woodlands west of Highway 21, north of South Street and south of Island Street, referred to in this report as the 'Bay Street Area Woodlands'.

This 2018 Town of Saugeen Shores Significant Woodland Supplement Study for the Bay Street Area Woodlands or Project Area 3 shall follow the same assessment of the Evaluation Criteria for Significance Determination as the approved 2012 SWS. AWS undertook a road-side assessment of the two study woodlands for hydrology and vegetation community mapping on September 21, and October 25, 2018.

In conjunction with this Supplement SWS report, which is considered to be part, but not all, of the overall significant woodlands review within the Town of Saugeen Shores, an Official Plan (OP) Amendment shall be included. The OP Amendment will request this 2018 Significant Woodland Study Supplement-Bay Street Area, be included under the Official Plan policy 2.6.8.2 as part of the Significant Woodlands Review.

3 Policy Background Review

Under the 2014 Provincial Policy Statement (PPS), site development could proceed within Significant Woodlands provided that it is demonstrated through a Natural Heritage Environmental Impact Study (EIS) that no negative impacts on the feature or their ecological functions are incurred.

The 2014 PPS, section 2.1.5 (b) for Significant Woodlands states:

Development and site alteration shall not be permitted in significant woodlands in Ecoregions 6E and 7E unless it has been demonstrated that there will be no negative impacts on the natural features or their ecological functions.

Project Area 3 is within Ecoregion 6E, thus this policy is in effect for any Significant Woodland feature within the Town of Saugeen Shores.

Similarly, the 2010 Bruce County Official Plan under policy 4.3.2.6.3 permits site development within Significant Woodlands, through an approved/accepted EIS. Additionally under the County Official Plan, Significant Woodlands have not been mapped as per section 4.3.2.6.4.

The 2012 Town of Saugeen Shores Official Plan policy 2.6.8.2 provides direction for woodlands that would be deemed 'significant' under its Official Plan, with 3 criteria points:

- a) *Lands within 'Special Policy Area 4' as identified on Schedule 'A' to this Plan.*
 - o Project Area 3 is not within Special Policy Area 4 lands

- b) *Lands subject to the Town of Saugeen Shores Significant Woodlands Review, as identified on Schedule 'A; to this Plan as the 'Significant Woodlands Overlay'*
- Project Area 3, though identified on Schedule 'A' as having woodland feature, this area was not part of the 2012 Significant Woodland Review, as such Project Area 3 woodlands have not been fully assessed for significance determination as set out under the 2012 SWS evaluation criteria.
- c) *Woodlands that have an area of 4 hectares (10 acres) or greater that are not identified on Schedule 'A' to this Plan.*
- Project Area 3 has two main woodland features: WOD-15 and WOD-16 (following the same sequential numbering as per the 2012 SWS), delineated on Figure No. 2.
 - Woodland block WOD-15 has a size of 31.4 ha while woodland block WOD-16 has a size of 1.7 ha.

Based solely on woodland size criteria, WOD-015 would be deemed 'Significant' under the Official Plan policy 2.6.8.2 (c), while WOD-016 would not meet significance criteria, being less than the criteria threshold level of 4 ha.

However, the Towns accepted 2012 SWS which outlined several 'other' criteria for significance determination, as per that summarized under the OP policy 2.6.8.3. The 2012 SWS identified four woodland blocks (WOD-001, WOD-007, WOD-008 and WOD-009) that were all below the 4 ha size criteria threshold but met 'other criteria' for significance. As such, further technical review following the 2012 SWS criteria has been provided within the following assessment for both WOD-15 and WOD-16.

WOD-015 and WOD-016 Significance Assessment

4 Land Use and Zoning Review

For the Project Area, Figure No. 4A shows the Land Use designations of the 2012 Town of Saugeen Shores Official Plan, with the two study woodlands being designated primarily 'Environmental Protection' with patches of 'Residential' designated lands. Figure No. 4B shows the current Zoning designations within the Project Area, with the two study woodlands having 'Environmental Protection', 'Planned Development', 'Open Space' or with a 'Residential' designation.

The Town of Saugeen Shores OP policy 3.1.8.1.1 states:

The purpose of the Environmental Hazard designation is to identify lands within the Town that are recognized as being unsuitable for development or have the potential to be unsuitable for development due to the natural hazards associated with the lands. Natural hazard features include floodplains, steep and unstable slopes, wetlands, erosion prone lands, organic and unstable soils, low-lying areas, poorly drained soils, surface water features, as well as flooding, erosion and dynamic beach hazards associated with Lake Huron.

Additionally, the Town of Saugeen Shores OP policy 3.18.1.2 states in part:

The boundaries of the Environmental Hazard designation are flexible to a certain degree and may be subject to revision through consultation with the Town and the Saugeen Valley Conservation Authority...

Figure No. 5 Vegetation Community delineation used a mix of on-site detailed EIS mapping (Morton 2018), roadside observations (October 2018 general site investigations) and air photo interpretation. The utilized EIS mapping has a higher degree of feature delineation accuracy than that shown on land designation or zoning of environmental hazard areas. Through the detailed Environmental Impact Study Report (Morton 2018) which covered portions of WOD-015, it was demonstrated that the current 'EP' designated lands are inaccurately delineated and do not meet the criteria description for the EP designation, thus said lands could support residential development.

The Town of Saugeen Shores OP policy 2.6.6.3 states:

Development or site alteration shall not be permitted within any wetlands.

With policy 2.6.6.5 stating;

Wetlands shall be zoned in the Zoning By-Law to preclude new development

5 Existing Conditions

Small scattered woodland parcels near the north boundary of 'Island Street' to the Project Area, have separation distances of 42m to woodland 16 (due to recent residential development along Cedar Bush Drive) and 175m to woodland 15, thus establishing 'Island Street' as the north perimeter of the Project Area to the study woodlands. The west forest limit of woodland 15 followed existing residential development along the shoreline area. To the northeast, woodland 15 has a separation distance of 46m from woodland 16 at the watercourse/drainage feature point. This watercourse bisects through woodland 16, flowing westward out to Albert Street South then is piped underground south to Bay Street. With this gap distance exceeding the 20m threshold, the woodlands are divided into two polygons. Along the east side of woodland 15, the combination of 'Creekwood Drive' road allowance and Residential Lot clearing out to the Provincial Highway, has a minimum gap distance of 124m, establishing the east limit of this woodland polygon. The south limit of woodland 15 was established along the Project Area boundary of 'South Street', for study purposes only. Woodland 15 extends off-site for 3.5 km's southward to the north limit of the settlement of Port Elgin, creating large continuous woodland environment approximately 270 ha in area.

5.1 Vegetation

5.1.1 Ecological Land Classification Types

The natural vegetation within the Project Area two woodlands has been broadly classified under the Ecological Land Classification (ELC) System for southern Ontario (Lee et al 1998) shown on Figure No. 4. Supporting documentation through detailed EIS works (Morton 2018) covered portions of WOD-015, providing accurate feature mapping and vegetation type delineation. Vegetation communities in each woodland polygon are described below.

WOD-015

Woodland 15 is a large forested environment which extends off site to the south. The assessed woodland portion in the Project Area has an area of 31.4 ha supporting five primary ecological land classification vegetation types:

- Coniferous Forest (FOC) dominated by White Cedar with scattered pockets of Balsam Fir and White Spruce.
- Deciduous Forest (FOD) being mixed types of dry Sugar Maple and lowland fresh-moist Green Ash.
- Mixed Forest (FOM) having a balance of coniferous trees (White Cedar, Balsam Fir) with deciduous trees (Sugar Maple, White Birch, Poplar & Aspens).
- Mixed Swamp (SWM) having a mixture of hydrophilic conifer (White Cedar, Tamarack) and deciduous (Green ash, Red Maple, Balsam Poplar) trees.
- Deciduous Swamps (SWD) dominated with Red Maple or Green Ash and typically inundated with spring season flooding conditions.
- Thicket Swamps (SWT) being a mix of tall willow shrubs with scattered hardwood saplings within moist-wet soil conditions.

WOD-016

Woodland 16 is a narrow riparian woodland strip along an unnamed watercourse/drainage channel feature, being 1.7ha in woodland area.

This woodland polygon is classified as a Mixed Forest (FOM) dominated with White Cedar, Sugar Maple, White Spruce, White Birch and Poplars.

5.1.2 Significant Vascular Flora

The Ministry of Natural Resources and Forestry maintains a data bank of historical records for a number of provincial, national and locally significant vascular plants through its Natural Heritage Information Centre (NHIC). Given that much of the Project Area study woodlands are 'private lands' and inaccessible, a review of historical flora records for this project area and its surrounding lands extending out 5 km's are provided below in Table 1. Additionally a review of the woodland polygon vegetation community types in relation to the preferred habitat types for those noted significant flora species has been provided in Table 2.

Table 1. NHIC Historical Records - Significant Vascular Plants

Scientific Name	Common Name	Provincial Status SRank	COSEWIC Status	SARO Status	Local Status- Bruce County south of Hwy 21
<i>Iris lacustris</i>	Dwarf Lake Iris	S2	Thr	SC	R
<i>Amoglossum plantagineum</i>	Tuberous Indian-plantain	S3	SC	SC	R
<i>Calamovilfa longifolia var. magna</i>	Great Lakes Sand Reed	S3	R	R	R
<i>Elymus lanceolatus ssp. psamophilus</i>	Great Lakes Wild Rye	S3	R	R	R
<i>Juncus greenei</i>	Greene's Rush	S3	R	R	R
<i>Carex tetanica</i>	Rigid Sedge	S3	R	R	R

Legend

Provincial Status (SRank)

- S2 = Imperiled in Ontario
- S3 = Vulnerable in Ontario

COSEWIC/SARO

- End = Endangered
- Thr = Threatened
- SC = Special Concern

Table 2: NHIC Historical Significant Flora - Candidate Vegetation Community Types

Scientific Name	Common Name	FOC	FOD	FOM	SWD	SWM	SWT
<i>Iris lacustris</i>	Dwarf Lake Iris	X	-	-	-	X	-
<i>Amoglossum plantagineum</i>	Tuberous Indian-plantain	-	-	-	-	-	-
<i>Calamovilfa longifolia var. magna</i>	Great Lakes Sand Reed	-	-	-	-	-	-
<i>Elymus lanceolatus ssp. psamophilus</i>	Great Lakes Wild Rye	-	-	-	-	-	-
<i>Juncus greenei</i>	Greene's Rush	-	-	-	-	-	-
<i>Carex tetanica</i>	Rigid Sedge	-	-	-	-	-	-

Legend

X = Suitable Candidate habitat type

5.2 Wildlife

The Ministry of Natural Resources and Forestry maintains a data bank of historical records for a number of provincial, national and locally significant wildlife species through its Natural Heritage Information Centre (NHIC). Given that much of the Project Area study woodlands are 'private lands' and inaccessible, a review of historical fauna records for this project area and its surrounding lands extending out 5 km's are provided below in Table 3. Additionally a review of the woodland polygon vegetation community types in relation to the preferred habitat types for those noted significant fauna species has been provided in Table 4.

Table 3. NHIC Historical Records - Significant Fauna

Scientific Name	Common Name	Provincial SRank	COSEWIC Status	SARO Status	Local Status-Bruce County south of Hwy 21
<i>Dolichonyx oryzivorus</i>	Bobolink	S4	Thr	Thr	Thr
<i>Sturnella magna</i>	Eastern Meadowlark	S4	Thr	Thr	Thr
<i>Chelydra serpentine</i>	Snapping Turtle	S3	SC	SC	SC
<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	S3	SC	SC	SC
<i>Ardea alba</i>	Great Egret	S2	NAR	Rare	Rare
<i>Aeshna verticalis</i>	Green-striped Darner	S3	NAR	Rare	Rare
<i>Riparia riparia</i>	Bank Swallow	S4	Thr	Thr	Thr
<i>Hylocichia mustemina</i>	Wood Thrush	S4	SC	Thr	Thr
<i>Contonus virens</i>	Eastern Wood-pewee	S4	SC	SC	SC

Provincial Status (SRank)

- o S2 = Imperiled in Ontario
- o S3 = Vulnerable in Ontario

COSEWIC/SARO

- End = Endangered
- SC = Special Concern
- Thr = Threatened
- NAR = Not At Risk

Table 4. NHIC Historical Significant Fauna - Candidate Vegetation Community Types

Scientific Name	Common Name	FOC	FOD	FOM	SWD	SWM	SWT
<i>Dolichonyx oryzivorus</i>	Bobolink	-	-	-	-	-	-
<i>Sturnella magna</i>	Eastern Meadowlark	-	-	-	-	-	-
<i>Chelydra serpentine</i>	Snapping Turtle	-	-	-	X	X	X
<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	-	-	-	X	X	X
<i>Ardea alba</i>	Great Egret	-	-	-	X	-	-
<i>Aeshna verticalis</i>	Green-striped Darner	-	-	-	-	-	-
<i>Riparia riparia</i>	Bank Swallow	-	-	-	-	-	-
<i>Hylocichia mustemina</i>	Wood Thrush	-	X	X	X	X	-
<i>Contonus virens</i>	Eastern Wood-pewee	-	X	-	X	-	-

X = Suitable habitat type

5.2.1 Birds

The Ontario Breeding Bird Atlas (OBBA) maintains a comprehensive bird species list based on the Universal Transverse Mercator (UTM) - Military Grid Reference System. The subject Project Area is contained within two OBBA squares, 17MK62 and 17MK72. A review of these two OBBA lists was undertaken for significant bird species (current status, indicator criteria species of significant wildlife habitat) other than those already reviewed under Table 3 & 4. Table 5 below provides this condensed list with habitat suitability within the Project Area.

Table 5. Other Significant Woodland & Indicator Bird Species, from OBBA Data

Note: ESA = Endangered Species Act

Scientific Name	Common Name	SRank	COSEWIC Status	SARO Status	Significant Wildlife Habitat Criteria Species for	Suitable Habitat in Study Woodlands? Based on Provincial Habitat Criteria
<i>Butorides virescens</i>	Green Heron	S4B	NAR	R	Colonial Nesting	No
<i>Accipiter striatus</i>	Sharp-shinned Hawk	S5B	NAR	NAR	Woodland Raptor Nesting	Requires >10ha of Forest Interior Habitat, Thus No
<i>Chaetura pelagic</i>	Chimney Swift	S4B	Thr	Thr	ESA Species	No
<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker	S5B	NAR	NAR	Area-Sensitive	Yes, WOD-015
<i>Vireo solitarius</i>	Blue-headed Vireo	S5B	NAR	NAR	Area-Sensitive Species	Yes, WOD-015
<i>Hirundo rustica</i>	Barn Swallow	S4B	Thr	Thr	ESA Species	No
<i>Catharus fuscescens</i>	Veery	S4B	NAR	NAR	Area-Sensitive	Yes, WOD-015
<i>Setophaga caerulescens</i>	Black-throated Blue Warbler	S5B	NAR	NAR	Area-Sensitive	Yes, WOD-015
<i>Setophaga virens</i>	Black-throated Green Warbler	S5B	NAR	NAR	Area-Sensitive	Yes, WOD-015
<i>Seiurus aurocapilla</i>	Ovenbird	S4B	NAR	NAR	Area-Sensitive	Yes, WOD-015
<i>Piranga olivacea</i>	Scarlet Tanager	S4B	NAR	NAR	Area-Sensitive	Yes, WOD-015
<i>Ardea herodias</i>	Great Blue Heron	S4B	NAR	NAR	Colonial Nesting	No
<i>Nycticorax nycticorax</i>	Black-crowned Night-Heron	S3B	NAR	R	Colonial Nesting	No
<i>Haliaeetus leucocephalus</i>	Bald Eagle	S4B	NAR	SC	Significant Species	No
<i>Buteo platypterus</i>	Broad-winged Hawk	S5B	NAR	NAR	Woodland Raptor Nesting	Requires >10ha of Forest Interior Habitat, Thus No
<i>Sitta canadensis</i>	Red-breasted Nuthatch	S5B	NAR	NAR	Area-Sensitive	Yes, WOD-015
<i>Troglodytes troglodytes</i>	Winter Wren	S5B	NAR	NAR	Area-Sensitive	Yes, WOD-015
<i>Setophaga americana</i>	Northern Parula	S4B	NAR	NAR	Area-Sensitive	Yes, WOD-015
<i>Cardellina canadensis</i>	Canada Warbler	S4B	Thr	Thr	Area-Sensitive	Yes, WOD-015

5.2.2 Herpetofauna

Ontario Nature maintains the comprehensive Reptile and Amphibian Atlas (ORAA) records on observed species based on the same UTM grid system as the OBBA program. The subject Project Area is contained within two OBBA squares, 17MK62 and 17MK72. A review of these two UTM grids for species records was undertaken for significant reptile and amphibian records (current status, indicator criteria species of significant wildlife habitat) other than those already reviewed under Table 3 & 4. Table 6 below provides this condensed list with habitat suitability within the Project Area.

Table 6. Other Significant Herpetofauna, from ORAA Data

Scientific Name	Common Name	SRank	COSEWIC Status	SARO Status	Significant Wildlife Habitat Criteria Species for	Suitable Habitat in Study Woodlands? Based on Provincial Habitat Criteria
<i>Chrysemys picta marginata</i>	Midland Painted Turtle	S4	SC	NAR	Overwintering, Nesting	Yes, WOD-015
<i>Lampropeltis triangulum</i>	Milksnake	S3	SC	SC	Hibernaculum	Yes, WOD-015
<i>Sistrurus catenatus</i>	Massasauga	S3	Thr	Thr	Hibernaculum & Gestation	No
<i>Lithobates catesbeianus</i>	American Bullfrog	S4	NAR	R	Amphibian Breeding-Wetlands & Movement	Yes, WOD-015

5.2.3 Mammals

The Mammal Atlas of Ontario (Dobbyn 1994) provides a species listing for known occurrence within the project area, along with the MNRF historical data bank records. No mammal species listed for the Project Area vicinity are presently listed as species of conservation concern.

5.2.4 Insects

The Ontario Odonata Atlas by D. Sutherland 1995 is currently unavailable but a species listings for Odonata are lumped as Regional/County lists in the 'Dragonflies and Damselflies of Ontario' (Pratt 1999). The only recorded Odonata in the vicinity of the Project Area is Green-striped darner (*Aeshna verticalis*) as listed under the NHIC data bank and last observed in this area in 1935.

Monarch Butterfly (*Danaus plexippus*) has also been observed within the Project Area (Morton-personnel observation) and is a species of Special Concern both nationally and provincially. No suitable habitat is identifiable within the two study woodlands.

5.2.5 Fish & Fish Habitat

Beyond the NHIC data record for Northern Brook Lamprey, no other fish species of conservation concern are known or are recorded to occur within the Project Area.

The supportive EIS technical report (Morton 2018) which included a portion of WOD-015 documented the south watercourse to support a migratory population of Rainbow Trout with confirmed Fish Habitat within the lower reaches of this watercourse.

5.3 Endangered and Threatened Species

In addition to documented species under Table 1 (significant flora) and Table 3 (significant fauna) for the Project Area, the woodland maturity and types noted can provide suitable habitat for other vascular plants and wildlife species currently having an Endangered or Threatened status.

Within Ontario, four bat species are currently listed as Endangered: Tricolored Bat (*Perimyotis subflavus*), Little brown myotis (*Myotis lucifugus*), Northern long-eared myotis (*Myotis septentrionalis*) and Eastern small-footed myotis (*Myotis leibii*). All four bat species can be found in Bruce County, with suitable roosting and maternity habitat within the Project Area.

Butternut (*Juglans cinerea*) having an Endangered status, has also been noted to be within the vicinity of the Project Area which supports suitable forest types suitable for this species.

5.4 Forest Interior Habitat

Forest Interior habitat is defined as habitat more than 100m from any edge. Given the study woodlands size, configuration, scattered pockets of tree clearing areas, surrounding roads and site development, neither WOD-015 nor WOD-016 provide forest interior habitat.

5.5 Significant Wildlife Habitat

Currently no mapping has been undertaken within Bruce County (Official Plan policy 4.3.2.10) or the Town of Saugeen Shores (Official Plan 2.6.4.1) to identify Significant Wildlife Habitat (SWH) due to this features complexity and sub-component aspects requiring on-site survey works. The Province of Ontario established criteria thresholds for confirmation of significant wildlife habitat through its January 2015 publication of “Significant Wildlife Habitat Criteria Schedules for Southern Ontario Ecoregions”. The four primary categories for evaluation are listed below, with a desk-top review augmented by supporting EIS works (Morton 2018) to assess candidate or confirmed habitat within the two study woodlands.

5.5.1 Seasonal Concentration Areas of Animals

- Waterfowl
 - No suitable terrestrial staging habitat
 - Aquatic habitat are too small to support concentration aggregate numbers >100
- Shorebirds
 - No suitable habitat
- Raptor Wintering Area
 - Forested habitat present but no adjacent suitable open county habitat
- Bat Hibernacula
 - No suitable natural habitat types
- Bat Maternity Colonies
 - Criteria vegetation community types: FOD, FOM, SWM and SWD present, thus candidate habitat within both woodland study lands.
- Turtle Wintering Areas
 - Criteria vegetation community type SWD present, thus candidate habitat within WOD-015.
- Reptile Hibernaculum
 - Criteria common snake species have been recorded in the Project Area and suitable habitat within vegetation communities FOC, FOD and FOM occur, thus candidate habitat within both woodland study lands.
- Colonial Nesting Birds
 - No suitable habitat identifiable within the Project Area.
- Migratory Butterfly Stopover
 - Not applicable to Bruce County
- Landbird Migratory stopover
 - Not applicable to Bruce County
- Deer Yarding & Concentration Areas
 - Habitat mapping by MNRF for Bruce County with no documentation within the Project Area.

5.5.2 Rare Vegetation Communities or Specialized Habitat for Wildlife

- Cliffs and Talus Slopes
 - None within the Project Area
- Sand Barren
 - None within the Project Area
- Alvar
 - None within the Project Area
- Old Growth Forest
 - Forest community types present however, no criteria woodland interior habitat or known old growth forest cover within the Project Area.
- Savannah
 - None within the Project Area
- Tallgrass Prairie
 - None within the Project Area
- Other Rare vegetation Communities
 - No identifiable provincially rare vegetation community types within the Project Area (urban environment).

- Waterfowl Nesting
 - Suitable habitat with scattered wetlands with WOD-015
- Bald Eagle & Osprey
 - Suitable habitat and Project Area is adjacent to Lake Huron
- Woodland Raptor Nesting
 - No interior forest habitat
- Turtle Nesting
 - No criteria vegetation community types
- Seeps and Springs
 - Headwater area to watercourse provides suitable conditions within WOD-015
- Amphibian Breeding
 - Suitable habitat within WOD-015 and confirmed within the supportive EIS (Morton 2018)
- Woodland Area Sensitive Bird Breeding Habitat
 - No suitable forest interior habitat

5.5.3 Habitat for Species of Conservation Concern (Not including Endangered or Threatened Species)

- Marsh Breeding Bird Habitat
 - No suitable habitat within the two study woodlands
- Open Country Bird Breeding Habitat
 - No suitable habitat within the two study woodlands
- Shrub/Early Successional Bird Breeding Habitat
 - No suitable habitat within the two study woodlands
- Terrestrial Crayfish
 - Criteria vegetation communities: SWT, SWD and SWM present within WOD-015
- Special Concern and Rare Wildlife
 - Historical records and suitable habitat types with both study woodlands.

5.5.4 Animal Movement Corridors

- Amphibian Movement Corridors
 - With suitable and confirmed SWH within WOD-015, linkage corridor areas to other surrounding habitat areas (WOD-016) are shown on Figure No. 6.
- Deer Movement Corridors
 - No deer wintering habitat confirmed, thus no delineation for deer movement corridor functions are required.

6 Evaluation Criteria Assessment

Table No 7 below provides a summary review of assessed woodland features and ecological functions (confirmed or candidate) within the two study woodlands. Any single criterion met within Table 7, following the original 2012 Town of Saugeen Shores Significant Woodland Study, satisfies the requirement for a woodland polygon to be classified as ‘Significant’ under the 2012 Towns Official Plan policy.

Table 7. Significant Woodland Evaluation

Evaluation Criteria	Woodland : WOD-015	Woodland: WOD-016
Hectares (Minimum size of 20ha)	Yes	No
Interior Forest Habitat (Minimum size of 2.0ha)	No	No
30m Proximity Met to Other Significant Features >2ha	Yes: Fish Habitat and Confirmed Significant Wildlife Habitat	No
Linkage Functions to Other Woodlands >4ha	Yes	Yes
Significant Communities	No	No
Significant Species	Candidate	Candidate
Age or Tree Size	No	No
Economic and Social Values	None Known	None Known
SIGIFICANCE MET	YES	YES

7 Summary and Recommendations

Based on this Supplemental 2018 Significant Woodlands Review for the Project Area, it has been demonstrated that the ‘Bay Street Area’ Woodland Polygons; WOD-015 and WOD-016 are both deemed to be Significant Woodlands. This 2018 supplemental significant woodland review has followed the format and evaluation criteria as set out in the original 2012 significant woodland review. As such, the proponent is requesting of Town Council, upon acceptance of this technical report, that the subject Project Area woodlands be considered and applied under the 2012 Town Official Plan policy 2.6.8.3, as part of the ‘Significant Woodland Review’.

The 2012 Town of Saugeen Shores Policy 2.6.8.4 in relation to the Significant Woodland Review and future site development, in part states:

... it is recognized that a small portion of the significant woodlands is within the designated Settlement Area that has been serviced with municipal sewer and water and other municipal services. Many of the lands within this area are designated as Residential and the lands are required to meet the Town’s growth projection in Section 1.2 of this Plan. The objective is to therefore permit new development in accordance with the underlying designation, in a way that protects and maintains interior woodland features and values.

The two study area woodland polygons; WOD-015 and WOD-016 are within the designated 'Settlement Area' for the Town of Saugeen Shores and are in a location already serviced with 'municipal sewer, water and other municipal services', with portions of both woodland polygons also having 'Residential' designations. As such, site development could be permissible within or adjacent to WOD-015 and WOD-016 provided a Natural Heritage Environmental Impact Study is prepared in accordance to provincial standards, Bruce County and Saugeen Conservation guidelines, as per the 2012 Towns Official Plan policy 2.6.8.5 and 2.6.8.6.

Respectfully Submitted



John Morton, President
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9 Figures

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Figure 2.....	Bruce County GIS Woodland Overlay
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Figure No. 1: Project Area Location

- Base map source: Bruce County web site, 2015 air photo, south portion for the Settlement of Southampton
- Project Area 3 to Town of Saugeen Shores Significant Woodland Review: Bay Street Area Woodlands, situated west of Highway 21, north of South Street and south of Island Street.



Figure No. 2: Bruce County GIS Woodland Overlay

- Base map source: Bruce County web site, 2015 air photo with woodland features
- Project Area 3 and surrounding area



Figure No. 3: Woodland Polygon Numbering

- Base map source: Bruce County web site, 2015 air photo
- Following the same sequential numbering to the 2012 Significant Woodland Study: Project Area 3 with two woodland blocks, WOD-015 and WOD-016

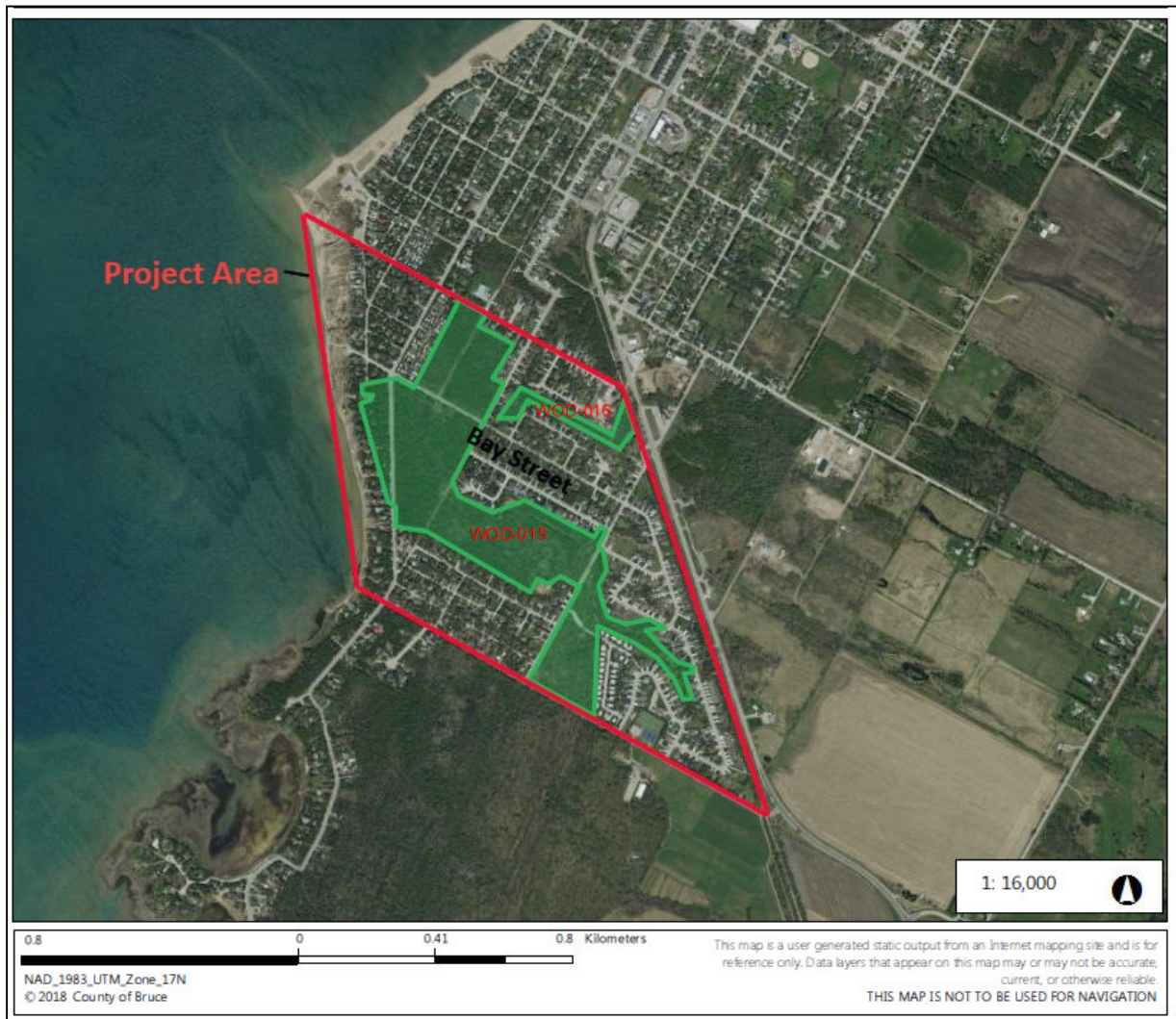


Figure No. 4A: Land Use Designations

- Base map source: Bruce County web site, 2015 air photo with Town of Saugeen Shores Land Use Designation as per the 2012 Official Plan

- Project Area 3 with a mix of Land Use Designations:

■ Environmental Hazard ■ Residential ■ Parks and Open Space

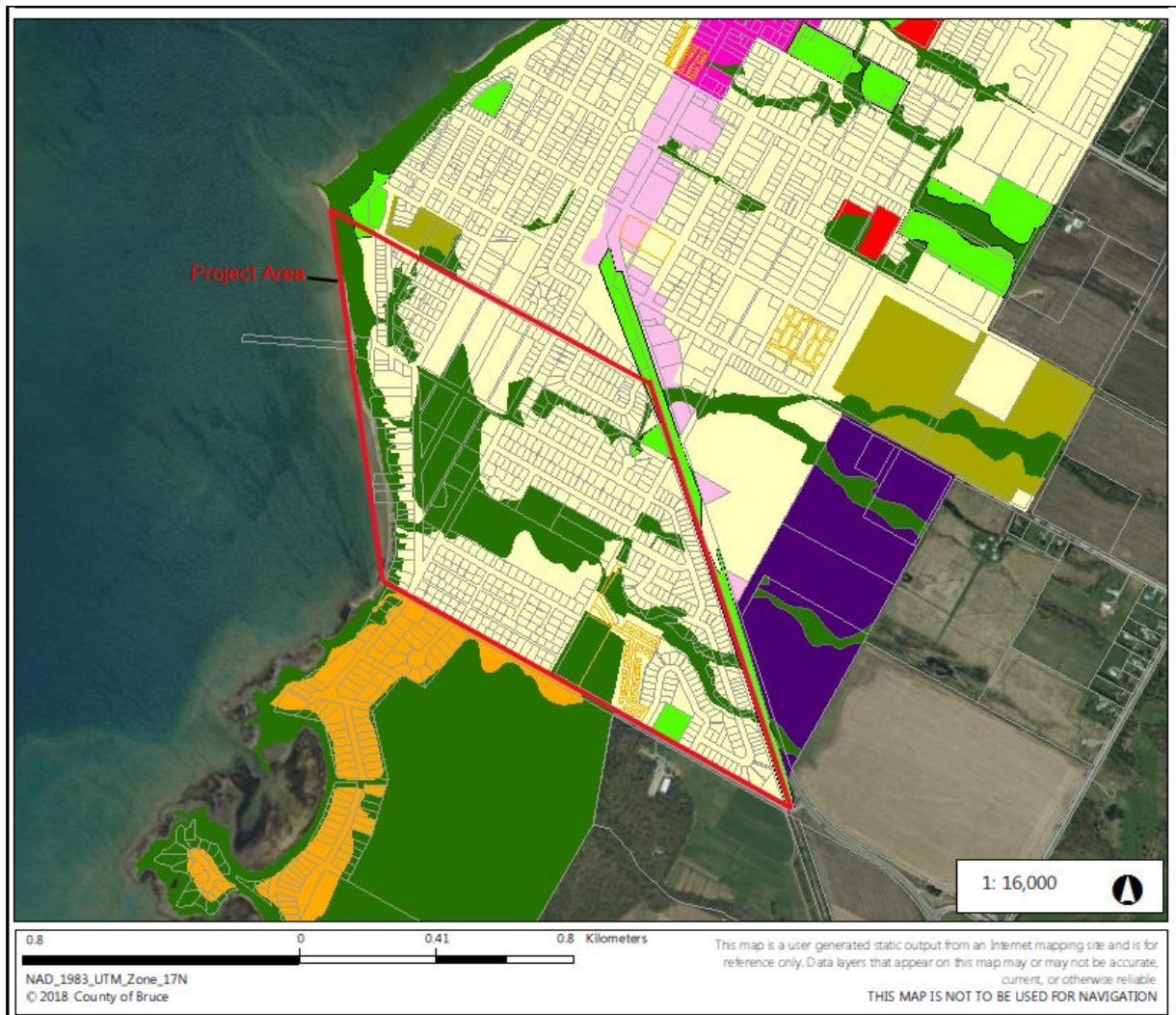


Figure No. 4B: Zoning

- Base map source: Bruce County web site, 2015 air photo with Town of Saugeen Shores Zoning Designations
- Project Area 3 with a mix of Land Use Designations: Environmental Protection, Planned Development, Open Space and Residential

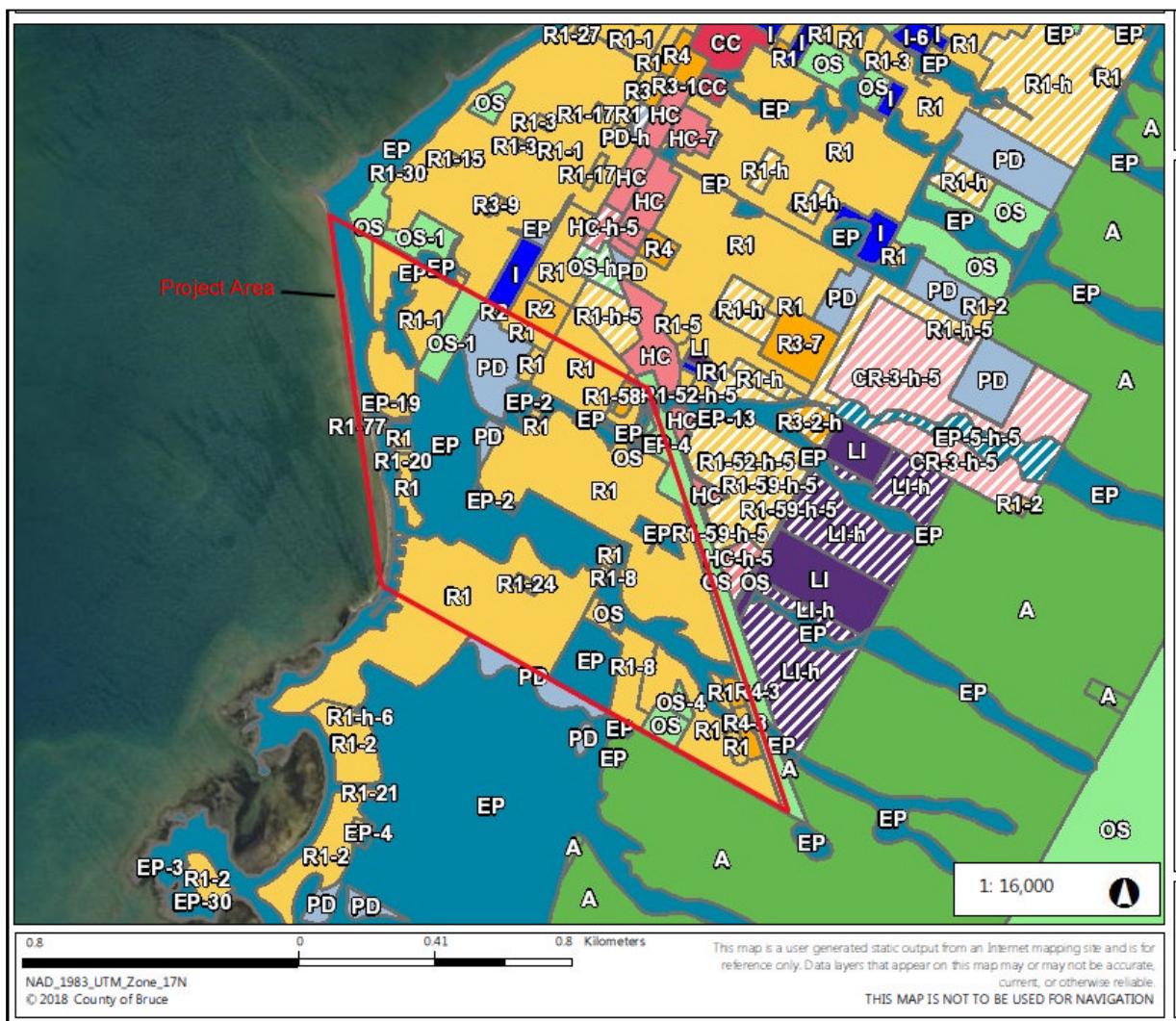
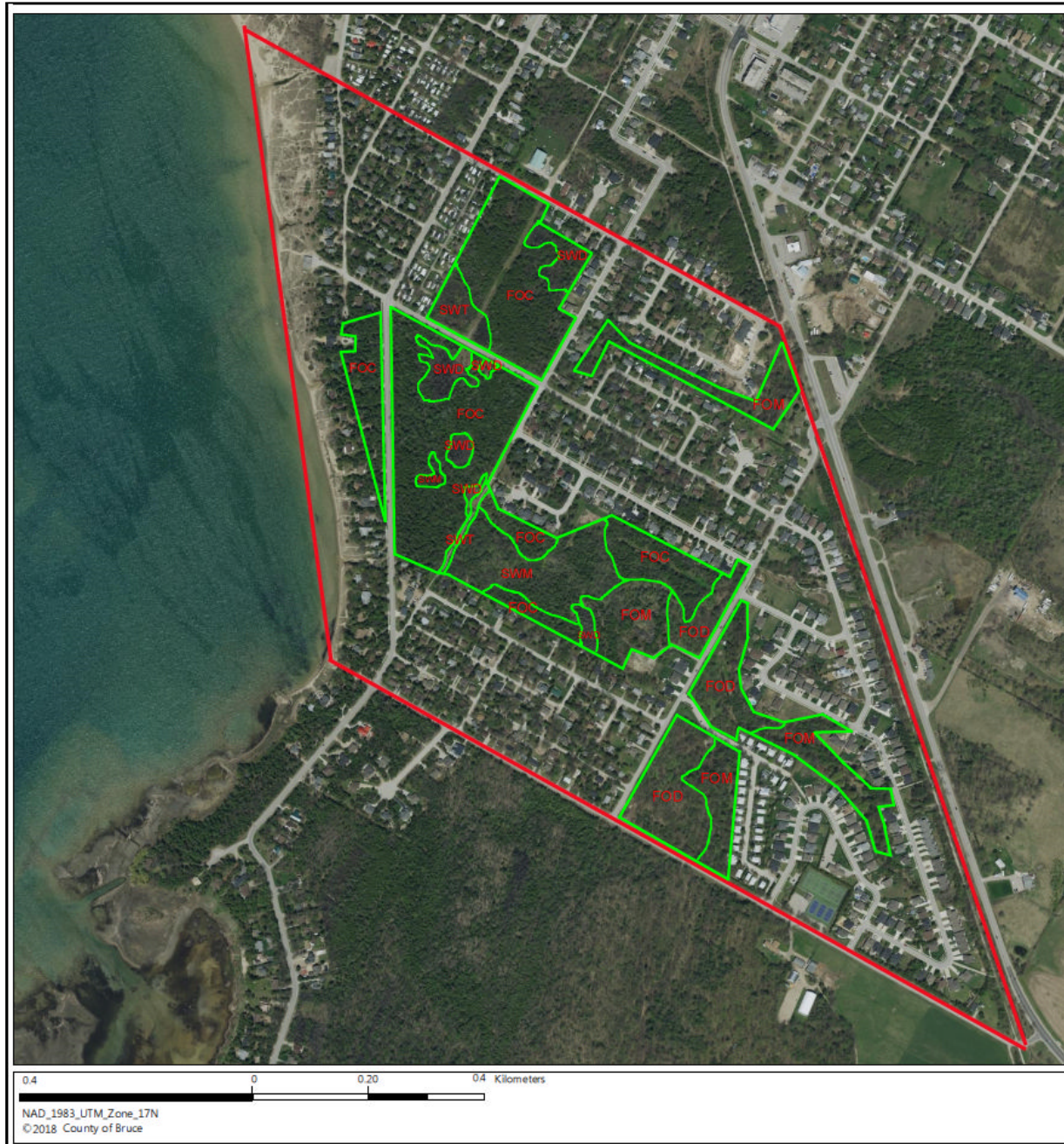


Figure No. 5: Vegetation Communities

- Base map source: Bruce County web site, 2015 air photo



ELC Communities

FOC: Coniferous Forest

SWD: Deciduous Swamp

FOD: Deciduous Forest

SWT: Thicket Swamp

FOM: Mixed Forest

Figure No. 6: Linkages

- Base map source: Bruce County web site, 2015 air photo with Town of Saugeen

