

Stantec

AMHERST ISLAND WIND ENERGY PROJECT

NATURAL HERITAGE ASSESSMENT & ENVIRONMENTAL IMPACT STUDY

Appendix C

Field Notes

Memo



Stantec

To: Andrew Taylor

From: James Leslie

File: 160960595

Date: February 09, 2012

**Reference: General ELC Description and Botanical Summary;
Amherst Island Wind Energy Project**

This memo has been prepared to provide a summary of the field investigations conducted in July and August 2011. James Leslie completed site assessments July 26th to 29th, August 2nd to 5th, and again from August 17th to 19th, 2011. Matthew Ross also completed site assessments from August 2nd to 4th. The purpose of these site assessments was to develop ELC mapping, identify wetland boundaries based on OWES, and compile a summer botanical inventory with particular attention to possible rare species. Further, surveyors also documented all observed significant woodland and wildlife features (e.g. vernal pools, potential hibernacula, stick nests, etc.).

Vegetation communities were delineated on aerial photographs and checked in the field; community characterizations were then based on the ELC system (Lee et al., 1998). Nomenclature largely follows Newmaster et al. (1998), with updates increasingly taken from published volumes of the Flora of North America Editorial Committee (1993+). Additional sources include Michigan Flora Online (2011), Tropicos, and Brouillet et al. (2010+). English colloquial names generally follow Newmaster et al. (1998).

In-field wetland delineations followed protocols outlined in the Ontario Wetland Evaluation System (OWES) 3rd Edition. Based on this, the principal criterion for determining the boundary of wetlands is the vegetation composition. In general, the wetland – upland boundary was drawn through the zone of transition where upland species of trees and shrubs represent 50% of the woody species present. Where tree and shrub species were either not present or were inconclusive, the herbaceous layer is then used to assist in identifying the boundary. These boundaries were based on air photo interpretation and ground-truthing of most communities.

Natural heritage information collected from the subject lands was evaluated to confirm potential significance. Provincial significance of vegetation communities was based on the draft rankings assigned by the Natural Heritage Information Centre (Bakowsky, 1996). The provincial status of all plant species is based on Newmaster et. al (1998), with updates from the database of the Natural Heritage Information Centre (NHIC, 2001). Identification of potentially sensitive plant species is based on assignment of a coefficient of conservatism value (CC) to each native species in southern Ontario (Oldham et al., 1995). The value of CC, ranging from 0 (low) to 10 (high), is based on a species'

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tolerance of disturbance and fidelity to a specific natural habitat. Species with a CC value of 9 or 10 generally exhibit a high degree of fidelity to a narrow range of habitat parameters.

Vegetation Communities

The vegetation communities, based on the ELC system for Southern Ontario, are shown on **Figures 2.0-2.5, Appendix A**.

A generalized description of each vegetation community type is described in **Table 1** below.

Table 1 Ecological Land Classification (ELC) Vegetation Types	
ELC TYPE	Community Description
Forest (FO)	
Coniferous Forest (FOC)	
FOC2-1 Dry-Fresh Red Cedar Coniferous Forest	This young community was only observed on the mainland and was assessed from the roadside. Red cedar was the dominant canopy species with scattered occurrences of green ash. Understory species included canopy saplings, but largely consisted of grey dogwood. Ground cover included species such as goldenrods, asters, and common milkweed.
Deciduous Forest (FOD)	
FOD4-4* Dry-Fresh Ironwood Deciduous Forest	Only one of these community types was observed in the Study Area. The canopy was mid-age and consisted primarily of ironwood in association with green ash; ironwood was particularly abundant in the sub-canopy. Understory and ground cover species were sparse (i.e. <25% cover) but included wild red raspberry, lamb's quarters, Canada goldenrod, herb robert, and enchanter's nightshade. Based on this community's size, location, and composition, it has likely been subject to cattle grazing in the recent past.
FOD5 Dry-Fresh Sugar Maple Deciduous Forest	Access limitations prevented thorough assessments of these communities. Based on accessible sections or roadside assessments these communities often contained an abundance of sugar maple with admixtures of American basswood, and hickory, and ash. Understory and ground cover species observed may be more indicative of edge effect conditions and less reflective of their interiors as species often consisted of tatarian honeysuckle, common buckthorn, and garlic mustard.
FOD5-1 Dry-Fresh Sugar Maple Deciduous Forest	One of these community types was identified within the Study Area. This was a mature community dominated by sugar maple, with infrequent associations of red oak, and white birch. Understory species were typically limited to saplings and wild red raspberry, while ground cover often included woolly sweet-cicely, black snakeroot, stellate sedge, enchanter's nightshade, and herb-robert.
FOD5-2 Dry-Fresh Sugar Maple – Beech Deciduous Forest	These were mature communities with an abundance of sugar maple and varying abundances of American beech, and American basswood. Understory species consisted of canopy saplings with associations of choke cherry and prickly gooseberry, while ground cover commonly included jack-in-the-pulpit,

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	enchanter's nightshade, woodland strawberry, and sedges.
FOD7-2 Fresh-Moist Ash Lowland Deciduous Forest	These were among the most commonly encountered community types, where canopy maturity varied from young to mature. Canopy species were occasionally dominated by green ash, but did include associations of white elm, slippery elm, and freeman's maple. The two most commonly observed shrubs in these communities were gray dogwood and narrow-leaved meadowsweet. Herbaceous species varied with soil moisture but often included scarlet strawberry, violets, white panicked aster, Canada goldenrod, Kentucky bluegrass, and fox sedge.
FOD9 Fresh-Moist Oak – Maple – Hickory Deciduous Forest	These communities were generally mid-age to mature with canopies inclusive of bur oak, green ash, shagbark hickory, and freeman's maple – varying in abundance. Understory composition included common buckthorn, and nannyberry, while ground cover often included white avens, woodland strawberry, hog peanut, violets, sedges, and wood reed grass.
FOD9-3 Fresh-Moist Bur Oak Deciduous Forest	These communities consistently included bur oak with frequent associations of green ash. Understory species often included saplings with fewer occurrences of nannyberry. Ground cover species often included sensitive fern, dwarf raspberry, hog peanut, white panicked aster, sedges and grasses.
FOD9-4 Fresh-Moist Shagbark Hickory Deciduous Forest	This community type was similar in composition to FOD9-3 but instead contained frequent occurrences of shagbark hickory in the canopy, with fewer occurrences of bur oak and green ash.
Cultural (CU)	
Cultural Plantation (CUP)	
CUP3-12* White Spruce Coniferous Plantation	These were generally mid-age communities with a canopy cover of approximately 60-70% consisting predominantly of white spruce. Understory and ground cover species included primarily common buckthorn and reed canary grass with pockets of cultural meadow habitat. Assessments were completed remotely.
Cultural Meadow (CUM)	
CUM1-1 Old Field Mineral Cultural Meadow	Cultural meadow habitat typically consisted of inactive or infrequently used agricultural land that had a mix of forb and graminoid species. Species composition varied with soil moisture but most commonly included awnless brome, timothy, Kentucky blue-grass, Canada goldenrod, calico aster, wild carrot, common milkweed, bird's foot trefoil, tufted vetch, and scarlet strawberry. Admixtures of straw sedge, bebb's sedge, red-top grass, and reed-canary grass were often observed where soil had higher moisture content.
Cultural Thicket (CUT)	
CUT1-4 Gray Dogwood Cultural Thicket	This was the most commonly observed cultural thicket community. Tree cover was sparse but commonly included green ash and white elm. Gray dogwood was abundant to dominant with less common admixtures of narrow-leaved meadowsweet. Ground cover varied but consistently included Kentucky bluegrass, Canada bluegrass, timothy, red-top grass, wild carrot, scarlet strawberry, flat-topped bushy goldenrod, Canada goldenrod, common heal-all, and path rush.
CUT1-7*	This community type contained an abundance of prickly ash, with fewer associations of gray dogwood and Eastern red cedar. Ground cover typically

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Prickly Ash Cultural Thicket	included wild carrot, black medic, tufted vetch, timothy, and Canada bluegrass.
CUT1-8* Meadowsweet Cultural Thicket	Narrow-leaved meadowsweet typically dominated these communities, which were often associated with varying degrees of livestock disturbance. Sparse tree cover included green ash, bur oak, and white elm, while ground cover generally included path rush, straw sedge, red-top grass, bluegrass, giant goldenrod, and flat-topped bushy goldenrod.
CUT1-9* Willow Cultural Thicket	Only one of these communities was observed, which occurred at a higher elevation than the surrounding terrain. Long-beaked willow, although normally found in wetland habitat was the dominant shrub with few associations of gray dogwood and red-osier dogwood. Ground cover most commonly consisted of timothy grass, with associations of awnless brome, red-top grass, wild red raspberry, wild carrot, bull thistle, and curly-leaf dock. No evidence of surface water accumulation was observed, and soil appeared to be dry to fresh. This community was moderately grazed by cattle.
Cultural Savannah (CUS)	
CUS1-1 Hawthorn Cultural Savannah	Only one of these communities was observed, consisting of approximately 25-30% cover of predominantly hawthorn species. Confirmation of hawthorn species could not be determined due to property access constraints. Ground cover species included wild carrot, bird's foot trefoil, blueweed, and awnless brome.
Cultural Woodland (CUW)	
CUW1-1 Red Cedar Cultural Woodland	This community, assessed remotely contained primarily mid-age red cedar scattered throughout. Understory species included patchy occurrences of prickly ash, lilac, and gray dogwood, while the herbaceous layer was composed largely of species consistent with dry cultural meadow communities.
CUW1-3* Mixed Cultural Woodland	These young to mid-age communities contained a mix of canopy species, including eastern red cedar, green ash, sugar maple, and American basswood. Understory species included prickly ash, gray dogwood, and less commonly lilac. Ground cover generally consisted of species consistent with dry cultural meadow communities.
CUW1-4* Sugar Maple Cultural Woodland	While this community contained a canopy cover adequate for "forest" classification, it did not have a typical forest structure as it was heavily grazed by cattle. Canopy species included sugar maple, with infrequent occurrences of shagbark hickory and ash. No shrub species were observed, and the herbaceous layer, where identifiable, consisted of common dandelion, common burdock, and common motherwort.
CUW1-5* Green Ash Cultural Woodland	These communities were typically young to mid-age and either associated with open canopies or heavy livestock grazing. Understory and ground cover species varied in abundance in density but generally included gray dogwood, prickly ash, common buckthorn, wild red raspberry, enchanter's nightshade, scarlet strawberry, avens, and Canada goldenrod. Soil generally had a moisture regime of 4-5.
CUW1-6* Sugar Maple – White Pine Cultural	While not actively grazed, this mature community was split by mowed paths up to 4m wide. Canopy species included sugar maple, white birch, and white pine with an understory often dense with choke cherry. Ground cover was often limited in extent by wild red raspberry, but included enchanter's nightshade, common

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Woodland	dandelion, common burdock, with fewer occurrences of herb-robert and common heal-all.
CUW1-7* Black Locust Cultural Woodland	Black locust was the dominant species in this canopy, with fewer occurrences of green ash. Understory species often included tatarian honeysuckle, lilac, and wild red raspberry, while ground cover was composed of species consistent with cultural meadow communities. The north half of this community occurred alongside residential property, while the south half was situated within active pasture land.
Swamp (SW)	
Deciduous Swamp (SWD)	
SWD1-2 Bur Oak Mineral Deciduous Swamp	This community consisted of a dense, mature canopy made up of green ash, bur oak, and Freeman's maple, with fewer occurrences of shagbark hickory and trembling aspen. The subcanopy also consisted of green ash and bur oak, but black ash and slippery elm were also common. Nannyberry, shagbark hickory, bur oak, and blue beech formed a thick understory, and the ground layer was dominated by sensitive fern along with dwarf raspberry, sedges, American hog-peanut, and fowl meadow grass.
SWD2-2 Green Ash Mineral Deciduous Swamp	These communities generally ranged from mid-age to mature stands with fairly thick canopy and ground layers, and patchy understories. The dominant canopy species was typically green ash, followed by lower abundances of Freeman's maple, and occasionally white elm. Typical understory species ranged through silky dogwood, narrow-leaved meadowsweet, and nannyberry, while the ground layers consisted mainly of fowl meadow grass, fox sedge and other sedges, Northern water-horehound, panicked aster, and Virginia wild rye. Soil was moist throughout, with some surface pools of no more than 10 to 15cm depth in the wettest communities.
SWD3-3 Swamp Maple Mineral Deciduous Swamp	These mature communities generally consisted of canopies dominated by Freeman's maple and green ash; American basswood was an occasional to rare occurrence among them. The subcanopy composition typically included canopy species as well as blue beech and elm species. Shrub species were infrequent and varied between communities but included gray dogwood, narrow-leaved meadowsweet, winterberry, and red-osier dogwood. The ground layers were dense and consisted mainly of sedges, spotted touch-me-not, fowl meadow grass, sensitive fern, wood nettle, jack-in-the-pulpit, and panicked aster.
Thicket Swamp (SWT)	
SWT2-2 Willow Mineral Thicket Swamp	This community consisted of a dense canopy of slender willow with infrequent occurrences of green ash. The understory was a moderately thick layer of narrow-leaved meadowsweet, while the ground layer included redtop grass, fox sedge, timothy grass, and daisy fleabane. This community type was generally associated with or adjacent to culturally influenced habitat.
SWT2-6 Meadowsweet Mineral Thicket Swamp	These communities consisted of thick canopies of narrow-leaved meadowsweet above ground layers consisting primarily of reed-canary grass and grass-leaved goldenrod. Other less frequently observed species included swamp milkweed, sedges, and bulrushes.
SWT2-9	This mid-age community was dominated by a dense understory layer of gray dogwood with scattered occurrences of narrow-leaved meadowsweet. Rare to

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Gray Dogwood Mineral Thicket Swamp	occasional occurrences of green ash, Freeman's maple, and white elm made up a sparse canopy. The ground layer was thick and dominated by reed-canary grass, giant goldenrod, wild carrot, and an aster species.
Marsh (MA)	
Meadow Marsh (MAM)	
MAM2-2 Reed-canary Grass Mineral Meadow Marsh	These communities generally consisted of a thick layer of reed-canary grass accompanied by varying mixtures of less commonly observed species such as wool-grass, sedges, grass-leaved goldenrod, swamp milkweed, and hedge bindweed. Woody species were rare occurrences and consisted primarily of green ash, gray dogwood, and narrow-leaved meadowsweet.
MAM2-5 Narrow-leaved Sedge Mineral Meadow Marsh	This young community consisted of a ground layer of herbaceous species with obvious evidence of livestock grazing. The most abundant species were woolly sedge, redtop, path rush, blue vervain, Canada goldenrod, American water-horehound, heal-all, grass-leaved goldenrod, fox sedge, and ragweed. The community contained very small and shallow pockets of surface water as well as a natural drainage channel.
Shallow Marsh (MAS)	
MAS2-2 Bulrush Mineral Shallow Marsh	This mid-age community consisted of a thick ground layer dominated by wool-grass and containing occasional occurrences of path rush, soft rush, grass-leaved goldenrod, and a sedge species. There was no evidence of surface water at the time of the survey.
MAS2-10* Sweet Manna Grass Shallow Marsh	This mid-age community was dominated by a thick ground layer of sweet manna grass. Green ash formed a very sparse canopy layer along with rare occurrences of Freeman's maple and bur oak. Snags were abundant throughout and some surface water was present.
MAS3-1 Cattail Organic Shallow Marsh	This community was dominated by a ground layer consisting entirely of cattail, and was part of a PSW for which no property access was available.

*ELC code not included in the First Approximation of ELC for Southern Ontario

Vascular Plant Species

258 species of vascular plants were recorded from the Study Area during the summer botanical inventory. It must be recognized, however, that this number reflects all optioned properties surveyed, including property outside of the current 120m Zone of Investigation. 74% of these species are considered native.

179 of the native species (95%) are ranked as S5 (common, widespread, and abundant in Ontario); 8 species are S4 (uncommon but not rare), and one species is S3 (vulnerable in Ontario). The S3 species observed was butternut (*Juglans cinerea*), an endangered species of tree with a declining population due to a non-native fungal

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pathogen. No additional surveys are required for the specimens observed as the 120m Zone of Investigation does not currently overlap with their locations.

With the exception of the butternut, no nationally or provincially rare, threatened or endangered species were found.

Many native plants have a numerical rank assigned to them (0 to 10) that signifies their fidelity to specific habitat or tolerance to disturbance. This value is referred to as a Coefficient of Conservatism and was developed by Oldham et al. (1995). Species found in a wide variety of plant communities, including disturbed sites, are assigned ranks of 0 to 3, while plants with a high degree of fidelity to a narrow range of synecological parameters are assigned a value of 9 to 10. Of the 182 species within the Study Area that have a CC value assigned to them, two of them have a value between 9 and 10. These species were:

- Jack Pine (*Pinus banksiana*) – This S5 species has a CC value of 9. A small stand of Jack pine was observed in “Owl Woods”, situated outside of the 120m Zone of Investigation. South of this woodland, three hedgerows were observed within a Cultural Meadow community where Jack pine was a co-dominant species (Tile 3). These hedgerows extend into the 120m Zone of Investigation along South Shore Road (east of Marshall Forty Foot Rd).
- Torrey’s Bulrush (*Schoenoplectus torreyi*) – This is an S4 species with a CC value of 10. This species was not observed within the 120m Zone of Investigation. It was observed only within the Amherst Bay ANSI.

Incidental Wildlife Observations

Wildlife species observed during field surveys were Giant Swallowtail, Northern Cardinal, Killdeer, Northern Leopard Frog, Eastern Cottontail, White-tailed Deer, Muskrat, Gray Catbird, American Robin, Red-tailed Hawk, Barn Swallow, Mourning Dove, Black-capped Chickadee, Field Sparrow, Turkey Vulture, Red Squirrel, Cedar Waxwing, Red-winged Blackbird, Green Frog, Monarch, House Wren, Song Sparrow, Black-billed Cuckoo, Blue Jay, Gray Tree Frog, American Woodcock, Eastern Chipmunk, American Crow, Eastern Kingbird, Eastern Wood-Pewee, Red-eyed Vireo, American Goldfinch, White Breasted Nuthatch, Rose Breasted Grosbeak, Bobolink, Eastern Towhee, Eastern Meadowlark, Yellow Winged Warbler, Common Yellowthroat, Alder Flycatcher, Hairy Woodpecker, Swamp Sparrow, Meadow Vole, and Rough-legged Hawk.

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TILE 2 - JIN SLOW ORISE & TAYLOR KIDD BLVD.

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Necked POLYGON: COM1
 SURVEYOR(S): W. M. ... DATE: 11/11/11 UTMZ: UTM:
 START: 11/11/11 END: 11/11/11 UTMN: UTM:

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE	<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"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP
<input type="checkbox"/> WETLAND	<input type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL, UPLAND <input type="checkbox"/> CLIFF	<input type="checkbox"/> COVER <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> LICHEN <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input checked="" 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	<input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> LICHEN <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input checked="" 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
<input type="checkbox"/> AQUATIC	<input type="checkbox"/> PARENT MIN.	<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"/> ACIDIC BEDRK.	<input type="checkbox"/> ACIDIC BEDRK.				
<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> BASIC BEDRK.				
<input type="checkbox"/> OPEN WATER	<input type="checkbox"/> CARB. BEDRK.				
<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 (> MUCH GREATER THAN; = ABOUT EQUAL TO)	
1 CANOPY				
2 SUB-CANOPY				
3 UNDERSTOREY				
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<50% 4=CVR>50%

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS:	<10	10 - 24	25 - 50	>50
STANDING SNAGS:	<u>20</u>			
DEADFALL/LOGS:				

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

TEXTURE: loa DEPTH TO MOTTLES/GLEY: g=

MOISTURE: loa DEPTH OF ORGANICS: (cm)

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: Cultural Meadow CODE: COM1

COMMUNITY SERIES: Cultural Meadow CODE: COM1

ECOSITE: Meadow COM CODE: COM1

VEGETATION TYPE: COM CODE: COM1

INCLUSION CODE: COM

COMPLEX CODE: COM

Evidence of Disturbance / Notes:

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Necked POLYGON: COM1
 SURVEYOR(S): W. M. ... DATE: 11/11/11 UTMZ: UTM:
 START: 11/11/11 END: 11/11/11 UTMN: UTM:

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE	<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"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP
<input type="checkbox"/> WETLAND	<input type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL, UPLAND <input type="checkbox"/> CLIFF	<input type="checkbox"/> COVER <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> LICHEN <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input checked="" 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	<input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> LICHEN <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input checked="" 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
<input type="checkbox"/> AQUATIC	<input type="checkbox"/> PARENT MIN.	<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"/> ACIDIC BEDRK.	<input type="checkbox"/> ACIDIC BEDRK.				
<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> BASIC BEDRK.				
<input type="checkbox"/> OPEN WATER	<input type="checkbox"/> CARB. BEDRK.				
<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 (> MUCH GREATER THAN; = ABOUT EQUAL TO)	
1 CANOPY				
2 SUB-CANOPY				
3 UNDERSTOREY				
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<50% 4=CVR>50%

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS:	<10	10 - 24	25 - 50	>50
STANDING SNAGS:	<u>20</u>			
DEADFALL/LOGS:				

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

TEXTURE: loa DEPTH TO MOTTLES/GLEY: g=

MOISTURE: loa DEPTH OF ORGANICS: (cm)

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: Cultural Meadow CODE: COM1

COMMUNITY SERIES: Cultural Meadow CODE: COM1

ECOSITE: Meadow COM CODE: COM1

VEGETATION TYPE: COM CODE: COM1

INCLUSION CODE: COM

COMPLEX CODE: COM

Evidence of Disturbance / Notes:

Page 1 of 1
 Signature: [Signature] (Field Personnel)
 Signature: [Signature] (Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Woodland & Wildlife Habitat Assessment Form

Project Number: 160960595

Project Name: Arboreal

Date: 11/10/11

Field Personnel: Alison

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>1</u>	<u>1-2</u>	<u>60%</u>	<u>0</u>	<u>0</u>

ELC Polygon: # _____ Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

no access.

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION
 SURVEYOR(S): Non Land DATE: 11/11/11 POLYGON: F000-1 UTMZ: UTM: UTMN:
 START: END: UTMZ: UTM: UTMN:

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION
 SURVEYOR(S): Non Land DATE: 11/11/11 POLYGON: F000-1 UTMZ: UTM: UTMN:
 START: END: UTMZ: UTM: UTMN:

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION
 SURVEYOR(S): Non Land DATE: 11/11/11 POLYGON: F000-1 UTMZ: UTM: UTMN:
 START: END: UTMZ: UTM: UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	22	22	Red Cedar, White Oak, Live Oak
2 SUB-CANOPY	17	17	Red Cedar, White Oak, Live Oak
3 UNDERSTOREY			
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<50% 4=CVR>50%

STAND COMPOSITION: Red Cedar 90% White Oak 10% BA:

SIZE CLASS ANALYSIS:	A	<10	10 - 24	N	25 - 50	N	>50
STANDING SNAGS:	N	<10	10 - 24	N	25 - 50	N	>50
DEADFALL/LOGS:	N	<10	10 - 24	N	25 - 50	N	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER / YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLEY g#
 MOISTURE: (cm)
 HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: Forest
 COMMUNITY SERIES: Carolina Forest
 ECOSITE: Red Cedar Forest
 VEGETATION TYPE: Red Cedar

CODE: F000-1
 CODE: F000-1
 CODE: F000-1
 CODE: F000-1

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLEY g#
 MOISTURE: (cm)
 HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: Forest
 COMMUNITY SERIES: Carolina Forest
 ECOSITE: Red Cedar Forest
 VEGETATION TYPE: Red Cedar

CODE: F000-1
 CODE: F000-1
 CODE: F000-1
 CODE: F000-1

INCLUSION COMPLEX

Evidence of Disturbance / Notes:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Red Cedar					
White Oak					
Live Oak					
...					

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Red Cedar					
White Oak					
Live Oak					
...					

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Red Cedar					
White Oak					
Live Oak					
...					

Page 1 of 1
 Signature: [Signature] (Field Personnel)
 Signature: [Signature] (Project Manager)
 Quality Control: This form is complete & legible



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 16066555
 Date: 4/10/11

Project Name: Amnest
 Field Personnel: Mossell

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	1	1-2	60%	Ø	Ø

ELC Polygon: # _____ Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

no access.

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

TILE 1 - Jim Snow + Taylor K.O.P

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):
 SITE: POLYGON:
 DATE: UTMZ:
 START: END:
 TIME: UTMN:

LAYERS: 1=CANOPY > 10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
FRAXENN										
QUERCUS										
CORYMOR										
PRUNIFR										
LONICOSP										
SUNIFR										
SOTIFR										
Maple										
Grass										
Galace										
...										

Quality Control: This form is complete & legible .
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):
 DATE: POLYGON:
 START: END:
 TIME: 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 BEDR. <input type="checkbox"/> BASIC BEDR. <input type="checkbox"/> CARB. BEDR.	<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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL <input type="checkbox"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED	<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 checked="" 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"/> THICKET <input type="checkbox"/> SAVANNAH <input checked="" type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	8	9	FRAXENN > QUERCUS
2 SUB-CANOPY	9	1	SUNIFR > CORYMOR
3 UNDERSTOREY	1	2	LONICOSP > SOTIFR
4 GRD. LAYER	6	2	Maple > Grass

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<50% 4=CVR>50%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	A	<10	10-24	25-50	>50
STANDING SNAGS:		<10	10-24	25-50	>50
DEADFALL/LOGS:		<10	10-24	25-50	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS: N/A

DEPTH TO MOTTLES/GLY: 9"
 DEPTH-OF-ORGANICS: (cm)
 DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION: FOOT-2

COMMUNITY CLASS: Forest
 CODE: FO
 COMMUNITY SERIES: Deciduous Forest
 CODE: FO0
 ECOSITE: Forest - Mixed Hardwood Deciduous
 CODE: FO07
 VEGETATION TYPE: Ash (over Oak)
 CODE: FO07-2

INCLUSION: d/g
 CODE: d/g
 COMPLEX: d/g
 CODE: d/g

Evidence of Disturbance / Notes:

TLS - Jim Swan & Taylor K. 100

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION: Forest Wood
 POLYGON: Forest Wood
 SITE: Forest Wood
 SURVEYOR(S): Norrell
 DATE: 11/18/00
 UTME: 18T
 START: 6:00
 END: 15:16
 UTMZ: 18T
 UTMN: 18T

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION: Forest Wood
 POLYGON: Forest Wood
 SITE: Forest Wood
 SURVEYOR(S): Norrell
 DATE: 11/18/00
 UTME: 18T
 START: 6:00
 END: 15:16
 UTMZ: 18T
 UTMN: 18T

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY			
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<50% 4=CVR>50%

STAND COMPOSITION: n/a BA:

SIZE CLASS ANALYSIS:	<input type="checkbox"/> N	<input type="checkbox"/> <10	<input type="checkbox"/> 10 - 24	<input type="checkbox"/> 25 - 50	<input type="checkbox"/> >50
STANDING SNAGS:	<input type="checkbox"/> N	<input type="checkbox"/> <10	<input type="checkbox"/> 10 - 24	<input type="checkbox"/> 25 - 50	<input type="checkbox"/> >50
DEADFALL/LOGS:	<input type="checkbox"/> N	<input type="checkbox"/> <10	<input type="checkbox"/> 10 - 24	<input type="checkbox"/> 25 - 50	<input type="checkbox"/> >50

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

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

SOIL ANALYSIS: N/A

TEXTURE: g=

MOISTURE: g=

HOMOGENEOUS / VARIABLE: COMI

DEPTH TO MOTTLES/GLEY: g=

DEPTH OF ORGANICS: g=

DEPTH TO BEDROCK: g=

COMMUNITY CLASSIFICATION: COMI

COMMUNITY CLASS:	CODE: <u>CO</u>
COMMUNITY SERIES:	CODE: <u>COMI</u>
ECOSITE:	CODE: <u>COMI</u>
VEGETATION TYPE:	CODE: <u>COMI</u>

INCLUSION: n/a CODE: n/a

COMPLEX: n/a CODE: n/a

Evidence of Disturbance / Notes:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

Quality Control: This form is complete & legible .
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)

TILE 1 - JIM SINGH & TAYLOR K100

ELC	SITE: <u>Abbeok Island Nairland</u>	POLYGON: <u>Catchment E</u>
COMMUNITY DESCRIPTION & CLASSIFICATION	SURVEY(S): <u>Nursell</u>	DATE: <u>Nov 18/2008</u>
	START: <u>1700</u>	END: <u>1800</u>
	UTMZ: <u>16T</u>	UTMN: <u>1800</u>

POLYGON DESCRIPTION

SYSTEM: TERRESTRIAL WETLAND AQUATIC

SUBSTRATE: ORGANIC MINERAL SOIL PARENT MIN. ACIDIC BEDR. BASIC BEDR. CARB. BEDR.

TOPOGRAPHIC FEATURE: LACUSTRINE RIVERINE BOTTOMLAND TERRACE VALLEY SLOPE TABLELAND ROLL UPLAND CLIFF TALUS CREVICE / CAVE ALVAR ROCKLAND BEACH / BAR SAND/DUNE BLUFF

HISTORY: NATURAL CULTURAL

PLANT FORM: PLANKTON SUBMERGED FLOATING-LVD. GRAMINOID FORB LICHEN BRYOPHYTE DECIDUOUS CONIFEROUS MIXED

COMMUNITY: LAKE POND RIVER STREAM MARSH SWAMP FEN BOG BARREN MEADOW PRAIRIE THICKET SAVANNAH WOODLAND FOREST PLANTATION

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER

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

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL
	1	2	3	4		1	2	3	4	
<u>OLIVIDER</u>		<u>R</u>								
<u>FRACENI</u>		<u>A</u>								
<u>PICEGLAU</u>		<u>O</u>								
<u>JUNINRG</u>		<u>O</u>								
<u>...</u>										

STAND DESCRIPTION:

LAYER: 1 CANOPY 2 SUB-CANOPY 3 UNDERSTOREY 4 GRD. LAYER

HT: 8 CVR: 1

SPECIES IN ORDER OF DECREASING DOMINANCE (>>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)

1 FRACENI 2 JUNINRG

2 PICEGLAU 3 JUNINRG

3 ... 4 ...

4 ... 5 ...

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≤50% 4=CVR>50%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	A	<10	10-24	25-50	N	>50
STANDING SNAGS:	R	<10	10-24	25-50	N	>50
DEADFALL/LOGS:	R	<10	10-24	25-50	N	>50

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

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

SOIL ANALYSIS: N/A

TEXTURE: N/A

DEPTH TO MOTTLES/GLEY: g=

MOISTURE: (cm)

DEPTH OF ORGANICS: (cm)

DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION: CUPS-2

COMMUNITY CLASS: Catchment CODE: CUP

COMMUNITY SERIES: Patched CODE: CUP

ECOSITE: Caribbean Patched CODE: CUPS

VEGETATION TYPE: White Pine CODE: CUPS-2

Evidence of Disturbance / Notes:

INCLUSION: etc

COMPLEX: etc

Page 1 of 1

Quality Control: This form is complete & legible

Signature: [Signature] (Field Personnel)

Signature: [Signature] (Project Manager)

FILE 1 - SIM SNAW & TAYLOR 16.09

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION
 POLYGON: *Creekbank*
 SURVEYOR(S): *Nisell*
 DATE: *10/18/04*
 TIME: *08:00*
 START: *1600*
 END: *1645*
 UTMZ: *15T*
 UTM: *150000*

LAYERS: 1=CANOPY > 10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
<i>Al-Catbal</i>					
<i>Willow Sap</i>					
<i>Redwood</i>					
<i>Aspen Sap</i>					
<i>Chickadee</i>					
<i>Blue Jay</i>					
<i>Coon Sap</i>					

Page 1 of 1
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)
 Quality Control: This form is complete & legible

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION
 POLYGON: *Creekbank*
 SURVEYOR(S): *Nisell*
 DATE: *10/18/04*
 TIME: *08:00*
 START: *1600*
 END: *1645*
 UTMZ: *15T*
 UTM: *150000*

LAYERS: 1=CANOPY > 10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

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

STAND DESCRIPTION: *TRIPALATI > SIM SNAW*

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	<i>4</i>	<i>1</i>	<i>TRIPALATI > SIM SNAW</i>
2 SUB-CANOPY	<i>5</i>	<i>2</i>	<i>PC Codes > Pines > Redwoods = Aspen Sap > Willow Sap</i>
3 UNDERSTOREY	<i>6</i>	<i>3</i>	<i>Pines > Redwoods = Aspen Sap > Willow Sap</i>
4 GRD. LAYER			<i>Common Weeds = Cow Vetch</i>

HT CODES: 1=>25m 2=10-HT<25m 3=2-HT<10m 4=1-HT<5m 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<50% 4=CVR>50%

STAND COMPOSITION: *No Trees* BA: *n/a*

SIZE CLASS ANALYSIS:	N	<10	10 - 24	25 - 50	>50
STANDING SNAGS:					
DEADFALL/LOGS:					

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

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

SOIL ANALYSIS: *NIA*

TEXTURE: _____
 MOISTURE: _____
 HOMOGENEOUS / VARIABLE: _____
 DEPTH TO MOTTLES/GLEY: *g#*
 DEPTH OF ORGANICS: _____
 DEPTH TO BEDROCK: _____

COMMUNITY CLASS:	CODE:
<i>None</i>	<i>NIA</i>
<i>None</i>	<i>NIA</i>
<i>None</i>	<i>NIA</i>
<i>None</i>	<i>NIA</i>
INCLUSION	<i>n/a</i>
COMPLEX	<i>n/a</i>

Evidence of Disturbance / Notes: _____

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Northwood POLYGON: CUT14
 SURVEYOR(S): Maxwell DATE: _____ UTM: _____
 START: _____ END: _____ UTMZ: _____ UTMN: _____

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	22	2	G. Adams W. Elm
2 SUB-CANOPY	23	1	G. Adams
3 UNDERSTOREY	24	1	G. Adams
4 GRD. LAYER	25	2	Substrate: Arct. for Grass Sp.

HT CODES: 1=>25m 2=10<HT<25m 3=2<HT<10m 4=1<HT<2m 5=0.5<HT<1.5m 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<50% 4=CVR>50%

STAND COMPOSITION: G. Adams W. Elm 10% G. Adams 60% BA:

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

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE: <u>CU</u>
COMMUNITY SERIES:	CODE: <u>CUT</u>
ECOSITE:	CODE: <u>CUT1</u>
VEGETATION TYPE:	CODE: <u>CUT1-1</u>
INCLUSION	CODE: <u>CU</u>
COMPLEX	CODE: <u>CU</u>

Evidence of Disturbance / Notes:

TILE 1 - JIM SNOW DRIVE 2
 TAYLOR KIDD BLVD.

SITE: _____ POLYGON: _____
 COMMUNITY DESCRIPTION & CLASSIFICATION: _____
 SURVEYOR(S): _____ DATE: _____
 START: _____ END: _____

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
G. Adams					
G. Adams					
G. Adams					
G. Adams					
W. Elm					

Page 1 of 1
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)
 Quality Control: This form is complete & legible



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 Guelph, ON
 Canada N1G 4P5
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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960045
 Date: 11/11/11

Project Name: Hibernat
 Field Personnel: J. Bassell

Weather Conditions:	TEMP (°C): <u>1</u>	WIND: <u>1-2</u>	CLOUD: <u>65%</u>	PPT: <u>Ø</u>	PPT (in last 24 hrs): <u>Ø</u>
---------------------	------------------------	---------------------	----------------------	------------------	-----------------------------------

ELC Polygon: # _____ Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- no access.

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

TILE 1
- JIM SHAW DRIVE &
DATED KIDD BLVD.

ELC
SITE: AI. MAIRLAND POLYGON: MAS
SURVEYOR(S): JD DATE: MAR 27 - 02 UTME:
START: END: UTMZ: UTMN:

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input checked="" 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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL COVER <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD. <input type="checkbox"/> GRAMINOID <input checked="" 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 checked="" type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	1	RAPEL
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	4-7	4	TYPHA > COENUS

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<50% 4=CVR>50%

STAND COMPOSITION:

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

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

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

SOIL ANALYSIS:

TEXTURE: DEPTH TO MOTTLES/GLEY g=

MOISTURE: DEPTH OF ORGANICS: (cm) G=

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:

COMMUNITY SERIES: CODE:

ECOSITE: CODE:

VEGETATION TYPE: CATTAIL MINOR SHALLOW MARSH CODE: MAS2-1

INCLUSION CODE:

COMPLEX CODE:

Evidence of Disturbance / Notes: - COULD NOT ACCESS DUE TO DRAINAGE CHANNEL

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
RAPEL					TYPHA sp.					
COENUS sp.										
SALIX sp.										

Page ___ of ___
Signature: _____ (Field Personnel)
Signature: _____ (Project Manager)

Quality Control: This form is complete & legible



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 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: AI - MAINLAND

Date: MAR 27 - 12

Field Personnel: JTL

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>4°C</u>	<u>1-2</u>	<u>100%</u>	<u>Ø</u>	<u>Ø</u>

ELC Polygon: # 1 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILE 2:
SOB & PERSONAL CABLE CAMPING

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION: **MANG-2**
 POLYGON: **MANG-2**
 SITE: **Edge Farm A-I**
 SURVEYOR(S): **Maxwell**
 DATE: **11/11/11**
 UTMZ: **UTM:**
 START: **00**
 END: **100**
 UTMZ: **UTM:**

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):
 POLYGON:
 DATE:
 UTMZ:

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 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"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD. <input type="checkbox"/> GRAMINOID <input checked="" 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 checked="" 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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY			
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<50% 4=CVR>60%

STAND COMPOSITION:

BA: **100**

SIZE CLASS ANALYSIS:	2	<10	1	10 - 24	1	25 - 50	1	>50
STANDING SNAGS:	1	<10	1	10 - 24	1	25 - 50	1	>50
DEADFALL/LOGS:	1	<10	1	10 - 24	1	25 - 50	1	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: **1** PIONEER **1** YOUNG **1** MID-AGE **1** MATURE **1** OLD GROWTH

SOIL ANALYSIS:

TEXTURE: **clay**

DEPTH TO MOTTLES/GLEY: **g=**

MOISTURE: **g=**

DEPTH OF ORGANICS: **g=**

HOMOGENEOUS / VARIABLE: **g=**

DEPTH TO BEDROCK: **g=**

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: **MANG-2**

COMMUNITY SERIES: **MANG-2**

ECOSITE: **MANG-2**

VEGETATION TYPE: **Reed-canopy Grass**

Evidence of Disturbance / Notes:

INCLUSION: **100**

COMPLEX: **100**

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
Reed canopy										
Grass										
Herb										
NL Collected										
Sol. org										
Sol. org										

Page 1 of 1
 Signature: *[Signature]* (Field Personnel)
 Signature: *[Signature]* (Project Manager)
 Quality Control: This form is complete & legible



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 Guelph, ON
 Canada N1G 4P5
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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: A.I.

Date: 11/11/11

Field Personnel: J. MANSELL

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>1</u>	<u>NW 10 km/h</u>	<u>60%</u>	<u>0</u>	<u>0</u>

ELC Polygon: # MMS-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

Terrestrial / Aquatic Interface.

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

TILE 2:
SOL & POTENTIAL CABLE LANDING

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Fox Farm POLYGON: COM1
 SURVEYOR(S): Norrell DATE: _____ UTMZ: _____
 START: 10/00 END: 10/00 UTMN: _____

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):

SITE: _____ POLYGON: _____
 DATE: _____

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"/> SITE	<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"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<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 checked="" type="checkbox"/> CULTURAL <input type="checkbox"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<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 checked="" 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

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
<u>Coccoloba</u>					
<u>Stem</u>					
<u>Stem</u>					
<u>C. N. ...</u>					
<u>C. N. ...</u>					
<u>Stem</u>					
<u>Willow</u>					
<u>Green</u>					
<u>White</u>					

STAND DESCRIPTION: dog

SPECIES IN ORDER OF DECREASING DOMINANCE
 (>= MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)

LAYER	HT	CVR
1 CANOPY		
2 SUB-CANOPY		
3 UNDERSTOREY		
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≤50% 4=CVR>50%

STAND COMPOSITION: BA:

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

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

SOIL ANALYSIS: dog

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____ **CODE:** COM
COMMUNITY SERIES: _____ **CODE:** COM
ECOSITE: Norrell COM **CODE:** COM
VEGETATION TYPE: dog **CODE:** _____

Evidence of Disturbance / Notes:

INCLUSION _____ **CODE:** _____
COMPLEX _____ **CODE:** _____

Page 1 of 1

Quality Control: This form is complete & legible .
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960505

Project Name: Amherst Island

Date: 11/11/11

Field Personnel: J. Mansell

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>1</u>	<u>10 NW/kph</u>	<u>70%</u>	<u>0</u>	<u>0</u>

ELC Polygon: # 0001 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

TILEZ: SOB 0 POTENTIAL CABLE LANDING

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Amherst Island POLYGON: 10-4
 SURVEYOR(S): SR DATE: Aug 18-11 UTME: _____
 START: _____ END: _____ UTMZ: _____ UTMN: _____

POLYGON DESCRIPTION

SYSTEM: TERRESTRIAL WETLAND AQUATIC

SUBSTRATE: ORGANIC MINERAL SOIL PARENT MIN. ACIDIC BEDRK. BASIC BEDRK. OPEN WATER SHALLOW WATER SURFICIAL DEP. BEDROCK

TOPOGRAPHIC FEATURE: LACUSTRINE RIVERINE BOTTOMLAND TERRACE VALLEY SLOPE TABLELAND ROLL UPLAND CLIFF TALUS CREVICE / CAVE ALVAR ROCKLAND BEACH / BAR SAND DUNE BLUFF

HISTORY: NATURAL CULTURAL

PLANT FORM: PLANKTON SUBMERGED FLOATING-LVD. GRAMINOID FORB LICHEN BRYOPHYTE DECIDUOUS CONIFEROUS MIXED

COVER: OPEN SHRUB TREED

COMMUNITY: LAKE POND RIVER STREAM MARSH SWAMP FEN BOG BARREN MEADOW PRAIRIE THICKET SAVANNAH WOODLAND FOREST PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3-4	1	Trapa = Umanua = Coriace
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	5-7	4	Phacelia 7 elecampane - aobasp = Solanum

HT CODES: 1=>25m 2=10-HT<10m 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<50% 4=CVR>50%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:

<10	10-24	25-50	>50
10	10	10	10

STANDING SNAGS:

<10	10-24	25-50	>50
10	10	10	10

DEADFALL/LOGS:

<10	10-24	25-50	>50
10	10	10	10

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

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

SOIL ANALYSIS:

TEXTURE: _____ DEPTH TO MOTTLES/GLEY: _____ g=

MOISTURE: _____ DEPTH OF ORGANICS: _____ (cm)

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: _____ (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____ CODE: _____
 COMMUNITY SERIES: _____ CODE: _____
 ECOSITE: _____ CODE: _____
 VEGETATION TYPE: Red Canary mixed meadowland CODE: MA 2-2

INCLUSION: _____ CODE: _____
 COMPLEX: _____ CODE: CJM 1-1

Evidence of Disturbance / Notes: - SOIL MESSY / DRY - GENERALLY MIXED BUT WITH SOME AREAS % DOMINATED BY PHACELIA

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): _____

SITE: _____ POLYGON: _____
 DATE: _____

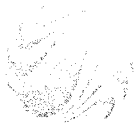
LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Phacelia	R				
Elecampane	R				
Aobasp	R				
Umanua	R				
Coriace					
Solanum					
Savannah					
Woodland					
Forest					
Plantation					

Page ____ of ____

Quality Control: This form is complete & legible

Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 18, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26°C</u>	<u>2-3</u>	<u>45%</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

ELC Polygon: # 10-4 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in trees]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

* Y=Yes, N=No, U=Unknown, DB=distinctive parts of body including color, size, shape, etc., D=downy, etc., B=barred, etc., S=small, etc., L=large, etc., etc.



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amheust island

Date: August 2, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>2-3</u>	CLOUD: <u>10%</u>	PPT: <u>∅</u>	PPT (in last 24 hrs): <u>∅</u>
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ELC Polygon: #9.1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; EY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TN=track; VO=vocalization

TILE 2 - S31

ELC
 SITE: Ambrosia Island
 POLYGON: 9-9
 SURVEYOR(S): JN
 DATE: AUG. 2-11
 UTME:
 START: END:
 UTMZ:
 UTMN:

ELC
 SITE:
 POLYGON:
 DATE:
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input checked="" 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 checked="" 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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<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 checked="" type="checkbox"/> STREAM <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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY		
2	SUB-CANOPY		
3	UNDERSTOREY		
4	GRD. LAYER	5-7	4 Phalaris > Leucaena = Canabebb = Balaena = Typoglyca

HT CODES: 1=2-25m 2=10-HT<=10m 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: _____

SIZE CLASS ANALYSIS:	N	<10	M	10 - 24	M	25 - 50	N	>50
STANDING SNAGS:	N	<10	M	10 - 24	M	25 - 50	N	>50
DEADFALL/LOGS:	N	<10	M	10 - 24	M	25 - 50	N	>50

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

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLEY: g=

DEPTH OF ORGANICS: (cm)

DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: _____

COMMUNITY SERIES: CODE: _____

ECOSITE: CODE: _____

VEGETATION TYPE: Red Canopy grass Mead Melaleuca

INCLUSION: CODE: _____

COMPLEX: CODE: _____

Evidence of Disturbance / Notes: -SOIL MOIST TO CRUMBED TOWARD MIDDLE, DEPTH ~ 15cm

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
MAM 2-2					
LEA 0P42					
CAN VULP					
CAN BEBB					
SCI CYPE					
ALI PLA-AR					
CAN ADA					
BID FLOM					
TRP ADAJ					
JUC EFFU					

Page ____ of ____
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)
 Quality Control: This form is complete & legible



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 2, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26</u>	<u>2-3</u>	<u>10%</u>	<u>Ø</u>	<u>Ø</u>

ELC Polygon: #9-9 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- GRFL
- NOLF

CA=carcass; DP=disturbance point; FE=feeding evidence; FN=eggs/nest; FO=forage/food; OB=observed; SC=scar; SH=other sign; TK=track; VO=vegetation



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst island

Date: August 2, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>2-3</u>	CLOUD: <u>100%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	---------------------	-----------------------	------------------	-----------------------------------

ELC Polygon: # 9-8 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst island

Date: August 2, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26</u>	<u>2-3</u>	<u>10%</u>	<u>0</u>	<u>0</u>

ELC Polygon: # 7 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

Howl
Sosp
BBC
ARKo

CA=carcass; DP=distinctive part; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILEZ - 531

ELC
 SITE: POLYGON: 9-6
 SURVEYOR(S): A.J. DATE: AUG 2-11
 COMMUNITY DESCRIPTION & CLASSIFICATION: START: END: UTMZ: UTMN:

ELC
 SITE: POLYGON:
 COMMUNITY DESCRIPTION & CLASSIFICATION: DATE:
 SURVEYOR(S):

POLYGON DESCRIPTION

SYSTEM
 TERRESTRIAL
 WETLAND
 AQUATIC

SUBSTRATE
 ORGANIC
 MINERAL SOIL
 PARENT MIN.
 ACIDIC BEDRK.
 BASIC BEDRK.
 OPEN WATER
 SHALLOW WATER
 SUBOFFICIAL DEP.
 BEDROCK

TOPOGRAPHIC FEATURE
 LACUSTRINE
 RIVERINE
 BOTTOMLAND
 TERRACE
 VALLEY SLOPE
 TABLELAND
 ROLL. UPLAND
 CLIFF
 TALLUS
 CREVICE / CAVE
 ALVAR
 ROCKLAND
 BEACH / BAR
 SAND DUNE
 BLUFF

HISTORY
 NATURAL
 CULTURAL

PLANT FORM
 PLANKTON
 SUBMERGED
 FLOATING-LVD.
 GRAMINOID
 FORB
 LICHEN
 BRYOPHYTE
 DECIDUOUS
 CONIFEROUS
 MIXED

COVER
 OPEN
 SHRUB
 TREED

COMMUNITY
 LAKE
 POND
 RIVER
 STREAM
 MARSH
 SWAMP
 FEN
 BOG
 BARREN
 MEADOW
 PRAIRIE
 THicket
 SAVANNAH
 WOODLAND
 FOREST
 PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	HEAL ALV > VIB BERRY > VITICORN
2 SUB-CANOPY	3	4	VITICORN > VIB BERRY
3 UNDERSTOREY	4-5	3	HEAL ALV = VIB BERRY
4 GRD. LAYER	6-7	4	POC COMP > VIB BERRY = HEAL ALV

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<50% 4=CVR>50%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	A	<10	10 - 24	25 - 50	>50
STANDING SNAGS:	4	<10	10 - 24	25 - 50	>50
DEADFALL/LOGS:	0	<10	10 - 24	25 - 50	>50

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

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

SOIL ANALYSIS:

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: F502-2
 COMMUNITY SERIES: CODE:
 ECOSITE: CODE:
 VEGETATION TYPE: F-1 ASH LOWLAND DECIP. FOREST
 INCLUSION CODE:
 COMPLEX CODE:

Evidence of Disturbance / Notes:

- SOIL DRY, ALTHOUGH W/ FEW BARKED ALBENT.
 - SPRING H2O DEPTH LIKELY NO MORE THAN 10CM IN SPOTS

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER			
	1	2	3	4		1	2	3	4
VITICORN	0	0	0	0	POC COMP				
VIB BERRY	A	0	0	0	V. VIBENS				0
					F502-2				
					CIP. LUTE				0
					CANEX SP.				0
					HEAL-ALV				0
					ASH CANE				0
					CANEX SP.				0
					CAN VULP				0
					ASH CANE				0
					CAN GRAC				0
					CAN TRIF				0
					VIB BERRY				0

Page ___ of ___
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)
 Quality Control: This form is complete & legible



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst island

Date: August 2, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>2-3</u>	CLOUD: <u>100%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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ELC Polygon: # 9-6 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 Y* / N / Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	
<u>302595, 4890757</u>	<u>A</u>	<u>FRALGR</u>	<u>40-50cm wide</u>	<u>2</u>	<u>NONE - POSSIBLE OLD/UNUSED</u>	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 Y* / N / Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILE 3 - SOUTH OF S13

ELC
 SITE: A.J.
 POLYGON: 16-1
 SURVEYOR(S): JN
 DATE: JULY 27-11
 UTME:
 START: 1:40
 END: 1:55
 UTMZ:
 UTMN:

ELC
 SITE:
 POLYGON:
 DATE:
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):

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 checked="" type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> FEN <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"/> BOG <input type="checkbox"/> BARREN <input checked="" type="checkbox"/> MEADOW <input type="checkbox"/> OPEN <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THicket <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
TIL AMER	R				A
ULM AMER	R				O
					O
					O
					O
					O
					O
					O
					R
					R

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	1	TIL AMER = ULM AMER
2 SUB-CANOPY			
3 UNDERSTOREY	3	1	CRATAEGUS
4 GRD. LAYER	1-7	4	SOLIDAGO BLANCO > VILC CAC

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<50% 4=CVR>50%

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS: R <10 R 10-24 R 25-50 N >50

STANDING SNAGS: R <10 R 10-24 N 25-50 N >50

DEADFALL/LOGS: R <10 R 10-24 N 25-50 N >50

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

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

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLY: g=

DEPTH OF ORGANICS: (cm)

DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: R-O

COMMUNITY SERIES: CODE: O

ECOSITE: CODE: O

VEGETATION TYPE: OLD FIELD CULTURAL MEDIUM CODE: CUM 1-1

INCLUSION CODE:

COMPLEX CODE:

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS: R <10 R 10-24 R 25-50 N >50

STANDING SNAGS: R <10 R 10-24 N 25-50 N >50

DEADFALL/LOGS: R <10 R 10-24 N 25-50 N >50

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

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

Evidence of Disturbance / Notes:

Quality Control: This form is complete & legible

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS: R <10 R 10-24 R 25-50 N >50

STANDING SNAGS: R <10 R 10-24 N 25-50 N >50

DEADFALL/LOGS: R <10 R 10-24 N 25-50 N >50

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

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



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: JULY 27-11

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>25°C</u>	<u>2-3</u>	<u>20%</u>	<u>Ø</u>	<u>Ø</u>

ELC Polygon: #16-1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

VARIOUS BIRDS - ØB

CA=carcass; DP=distinctive pairs; PB=feeding evidence; PY=eggs/nest; HO=house/den; OB=observed; SC=seal; S=other sign; TK=track; VO=vocalization

TILE 3 - EAST & WEST OF S18 & S13

ELC		SITE: Amherst Island		POLYGON: 16-2	
COMMUNITY DESCRIPTION & CLASSIFICATION		SURVEYOR(S): J. Leslie		DATE: July 28-11	
		START:		UTMZ:	
		END:		UTMN:	

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN. <input type="checkbox"/> ACIDIC BEDR. <input type="checkbox"/> BASIC BEDR. <input type="checkbox"/> CARB. BEDR. <input type="checkbox"/> WATER	<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 COVER <input type="checkbox"/> OPEN <input checked="" type="checkbox"/> SHRUB <input type="checkbox"/> TREE	<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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
CANOPY	23	2	ULM. SAL > FLAEGAN
SUB-CANOPY	4	3	SP. ALBA > CORSTON > R. BIRAS
UNDERSTOREY	5-7	4	VIC. CRA. > P. PRAT > SAL. INAG. SP. > CARANU
GRD. LAYER	1= >25m	2=10-25m	3=2-10m
HT CODES:	1= >25m	2=10-25m	3=2-10m
CVR CODES:	0=NONE	1=0%-CVR	2=10%-CVR

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	BA:
<10	N
10 - 24	N
25 - 50	N

SOIL ANALYSIS:

DEPTH TO MOTILES/GLEY: 9=

DEPTH OF ORGANICS: (cm)

DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE: CUT-8
INCLUSION	CODE:
COMPLEX	CODE: S. PIERA
Evidence of Disturbance / Notes:	CODE: SNT 2-b

* = FOUND PRIMARILY IN SNT INCLUSIONS

- HIGHLY VARIABLE MOIST / DRY CONDITIONS

- HIGH SURFACE HUMIDITY

ELC

COMMUNITY DESCRIPTION & CLASSIFICATION

SURVEYOR(S)

LAYERS: 1=CANOPY >10m 2=SUB-CANOPY R=RARE O=OCCASIONAL A=ABUNDANT 4=GROUND (GRD.) LAYER

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

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
FAA PERN	R-O	O			
ULM RUBR	O				
MEL ALBA				R	
VIC CRA				O	
P. PRAT				O	
BAWNO				O	
CAR ALBA				O	
AG. SGA				O	
DAUCAR				R	
NYMP POLF				R-O	
LUD ALUM				R-O	
S. PIERA				O	
UL. PAR.				O	
U. AVER.				O	
RUM CAL				O	
ASE SARI				O	
SOL CANA				O	
SPAL SGA				O	
AST PUR				O	
H. AC-AIL				O	
RAVING				O	
BRN. UNAPV.				O	
Ox. C-IC				O	
SCA P. O				O	
BL VERUAIN				O	
CAR VULP				O	
TRIAVIRE				O	
GLYSTER				O	
NYM TENU				O	
SP. LOOSE				O	
CORSTON		O			
SP. ALBA		OA			
P. BIRAS		O	O		

Quality Control: This form is complete & legible

Signature: [Signature]

Signature: [Signature] (Project Manager)

Signature: [Signature] (Field Personnel)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amhurst Island

Date: July 28, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>25°</u>	<u>2-3</u>	<u>20%</u>	<u>0</u>	<u>0</u>

ELC Polygon: # 16-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

AMRD - OB
 MONARCH - OB
 - STANDING SNAGS PRESENT IN THIS COMMUNITY, ALTHOUGH NONE WITH SUITABLE CAVITIES / BARK

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TR=track; VO=vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Ambouet Island

Date: July 28, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26°</u>	WIND: <u>2</u>	CLOUD: <u>70%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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ELC Polygon: # 15.2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves.]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

GRC A . VO

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Amherst Island

POLYGON: 15-5

SURVEYOR(S): STR

DATE: June 27-11

UTM: UTMZ:

START: END: 4:30 PM

UTM: UTMZ:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	1	Expansive = 1m tall
2 SUB-CANOPY			
3 UNDERSTOREY	3	1	Saxix
4 GRD. LAYER	4-7	4	CAMPUS > SCIENCE > LEE 0472 > OVULES

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

STAND COMPOSITION:

SIZE CLASS ANALYSIS: R 10-24 N 25-50 N >50

STANDING SNAGS: R 10-24 N 25-50 N >50

DEADFALL/LOGS: R 10-24 N 25-50 N >50

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

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

SOIL ANALYSIS:

TEXTURE: R G=

DEPTH TO MOTTLES/GLEY: R G=

MOISTURE: (cm)

DEPTH OF ORGANICS: (cm)

HOMOGENEOUS / VARIABLE: R G=

DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: MAH 2

COMMUNITY SERIES: CODE: MAH 2

ECOSITE: CODE: MAH 2

VEGETATION TYPE: MINERAL MEADOWS MARSH

INCLUSION: CODE: MAH 2

COMPLEX: CODE: MAH 2

Evidence of Disturbance / Notes:

ACTIVELY GRazed BY SHEEP - COMPLEXED (PACKETS OF CARPULL SCIENCE & LEE 0472)

NO SURFACE H₂O; SOIL DRY - MESSY

TILE 3 - SOUTH OF S30

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: POLYGON:

DATE: DATE:

SURVEYOR(S): SURVEYOR(S):

LAYERS: 1=CANOPY >10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER

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

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
FOA PEAR	R				
USA AMET	R				
CAL PELL					A 11
SCICAPE					R-O
PAUYGAWA SP					O-A
BL VIKVAUR					O
AASA SISA					O
MEP ARUE					O
POA PRAT					O
W. AVERS					R-O
BARNEO					R
CAL VULP					O
CAL (SALS)					O
CAF STIC					R
FEMIA SP					R
LEE 0472					O-A
CAL PELL					R
TYP LARI					R
VIT TENU					R-O
SALIX					R
VIT RIBA					R

Quality Control: This form is complete & legible

Page 1 of 1

Signature: *[Signature]* (Field Personnel)

Signature: *[Signature]* (Project Manager)



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Fax: (519) 836-2493

Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: July 28, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>2</u>	CLOUD: <u>70%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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ELC Polygon: # 15-5 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

RTHA - OB
NOLE

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HQ=house/den; OB=observed; SC=seat; SI=other sign; TK=track; VO=vocalization

TILE 3 - S12, S33, S28

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Amberst Island
 SURVEYOR(S): J. Mestic
 DATE: 06/27/11
 POLYGON: 17-1
 START: [] END: []
 UTMZ: [] UTM: []

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: []
 POLYGON: []
 DATE: []
 SURVEYOR(S): []

POLYGON DESCRIPTION

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

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
FLA PELL	R				
PHA PELL					
BI. VERNAM					A-D
CAN BELL					O-A
SCI ARGO					O
TYP ARGU					R
CAR VULP					O
CAR OMARS					O
POY. PSYIC					R-O
LYC VRIIF					O
ACR STOL					O
SCI CYBE					O
SCR TRU					O
RAGWOOD					O
HYP PELL					R-O
MARSH SERR					R

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE
1 CANOPY	21	1	FLA PELL
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	4-7	4	PHA PELL >> CAR PELL >> SCI ARGO SPP.

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<50% 4=CVR<60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS: [R] <10 [R] 10-24 [R] 25-50 [N] >50

STANDING SNAGS: [R] <10 [R] 10-24 [N] 25-50 [N] >50

DEADFALL/LOGS: [N] <10 [R] 10-24 [N] 25-50 [N] >50

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

COMM. AGE: [] PIONEER [] YOUNG [X] MID-AGE [] MATURE [] OLD GROWTH

SOIL ANALYSIS:

TEXTURE: CL
 MOISTURE: 6
 HOMOGENEOUS/VARIABLE: 50-120cm
 DEPTH TO MOTTLES/GLEY: 18cm
 DEPTH OF ORGANICS: 50-120cm
 DEPTH TO BEDROCK: 18cm
 CLAY TOO DENSE

VEGETATION TYPE: MINERAL MORGAN MARSH

INCLUSION: N.L. CARNAL

COMPLEX: CARX PELLTA

CODE: MAM 2.2
 CODE: MAS 2
 CODE: MAM 2

Evidence of Disturbance / Notes:
 PIC 21
 - NO SURFACE PRO. SOIL MESSIC
 - 1-2m in small carnal MAM



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Ambawot Island

Date: July 27, 2011

Field Personnel: J. Leslic

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>25</u>	<u>2-3</u>	<u>20%</u>	<u>Ø</u>	<u>Ø</u>

ELC Polygon: # 17-1 Assessment Type: -Visual; roadside, no access -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive pairs; FB=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

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Roadside ELC, Woodland & Wildlife Habitat Assessment Form



Project Number: 10960595
Date: Aug 15 2002
Project Name: Amberst Island
Field Personnel: Katherine S
Weather Conditions: TEMP (°C): 28 WIND: 2 CLOUD: 60 PPT: None PPT (in last 24 hrs): light rain

POLYGON DESCRIPTION

POLYGON: ELC COMMUNITY DESCRIPTION & CLASSIFICATION	TOPOGRAPHIC FEATURE		HISTORY	
	<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 checked="" type="checkbox"/> ROLL UPLAND <input type="checkbox"/> CLIFF		<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	
	<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			
START TIME: 13:24	POLYGON: WOD-007			
END TIME: 13:40	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; = ABOUT EQUAL TO)			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	Ash sp >> Am elm
2 SUB-CANOPY	3	3	Ash sp >> Am elm
3 UNDERSTOREY	4	4	White elder & riverbank grape & w. spurge
4 GRD. LAYER	5	3	Reed Canary & Y. creeper

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≤50% 4=50<CVR≤60% 5=60%<CVR≤75% 6=75%<CVR≤90% 7=90%<CVR≤100% NIO=not observed

STANDING SNAGS: 0 <10 10-24 25-50 >50
ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT NIO=Not observed
STAND MATURITY: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

VEGETATION TYPE: Green ash mineral deciduous stand
CODE: SWD2-2
COMPLEX CODE:

Evidence of Disturbance / Notes:

TILE 3- NE of S28

SPECIES CODE	LAYER				DISTANCE FROM RD.	COLL.
	1	2	3	4		
TREES:						
Ash sp.	R	D				
Am elm	R	O				
SHRUBS:						
Riverbank grape			O	R		
Red oler dogwood			R	A		
Virginia creeper						
Hawthorn sp.			R	A		
Gray dogwood						
White spurge						
Red cedar						
GROUND:						
Wild carrot					D	
English Ivy					R	
Low parson p					R	
Reed Canary					A	
Woodland strawberry					O	

Quality Control: This form is complete & legible
Signature: [Signature] (Field Personnel)
Signature: [Signature] (Project Manager)

ELC Polygon: # W00D-007 Assessment Type: Visual; no access / Walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 -Y* / -N / Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
 -Y* / -N / Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 -Y* / -N / Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 -Y* / -N / Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 -Y* / -N / Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=seat; SI=other sign; TK=track; VO=vocalization



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 Canada N1G 4P5
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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: July 27, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>25°C</u>	<u>2-3</u>	<u>20%</u>	<u>Ø</u>	<u>Ø</u>

ELC Polygon: # T17-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map) NO ACCESS

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FB=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILE 3 - WEST OF S07

ELC SITE: Ambowt Island POLYGON: 16.4

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): J. Lohle DATE: July 28-11 UTME: _____

START: _____ END: _____ UTMZ: _____ UTMN: _____

ELC SITE: _____ POLYGON: _____

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): _____ DATE: _____

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input checked="" 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 BEDR. <input type="checkbox"/> BASIC BEDR. <input type="checkbox"/> CARB. BEDR. <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<input type="checkbox"/> LACUSTRINE <input checked="" type="checkbox"/> RIVERINE <input checked="" 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 DUINE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED	<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 checked="" type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	1-4	4	<u>Acacia 7 Fraxinus</u>
2 SUB-CANOPY	2-4	4	<u>Acacia 7 Fraxinus</u>
3 UNDERSTOREY	3-4	2	<u>Acacia 7 Fraxinus</u>
4 GRD. LAYER	5-7	4	<u>CROSSBERRY IMPACT 2 woodholl</u>

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≤50% 4=50%-CVR≤60% 5=60%-CVR≤75% 6=75%-CVR≤85% 7=85%-CVR≤95% 8=95%-CVR≤100%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	<u>R0</u> <10	<u>5-A</u> 10-24	<u>A</u> 25-50	<u>0</u> >50
STANDING SNAGS:	<u>R</u> <10	<u>R</u> 10-24	<u>R</u> 25-50	<u>N</u> >50
DEADFALL/LOGS:	<u>0</u> <10	<u>0</u> 10-24	<u>0</u> 25-50	<u>R</u> >50

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

COMM. AGE: PIONEER YOUNG MID-AGE OLD GROWTH

SOIL ANALYSIS:

TEXTURE: _____ DEPTH TO MOTTLES/GLEY: g=

MOISTURE: _____ DEPTH OF ORGANICS: _____ (cm)

HOMOGENEOUS / VARIABLE: _____ DEPTH TO BEDROCK: _____ (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____ CODE: _____

COMMUNITY SERIES: _____ CODE: _____

ECOSITE: _____ CODE: _____

VEGETATION TYPE: SWAMP MADE MINERAL DECIP. SWAMP CODE: SND3-3

INCLUSION: _____ CODE: _____

COMPLEX: _____ CODE: _____

Evidence of Disturbance / Notes:

SOIL MESS - NO SURFACE H₂O
- MANY AREAS OF BARREN SOIL
- OLD MATURE WOODLAND

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
<u>ACER</u>	<u>A</u>	<u>A</u>	<u>R</u>	<u>0</u>	<u>A</u>
<u>CRAP</u>	<u>0</u>	<u>0</u>	<u>R</u>	<u>0</u>	<u>0</u>
<u>VIM</u>	<u>R</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>CAR</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>IMP</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>LYC</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>CAR</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>CAR</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>GLY</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>FAL</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>AST</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>WAO</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>CIP</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>GRS</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>CAR</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>LYC</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Page ____ of ____ Quality Control: This form is complete & legible .

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)



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Canada N1G 4P5
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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: July 28, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>25°</u>	WIND: <u>2-3</u>	CLOUD: <u>20%</u>	PPT: <u>d</u>	PPT (in last 24 hrs): <u>∅</u>
---------------------	--------------------------	---------------------	----------------------	------------------	-----------------------------------

ELC Polygon: # 16.4 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features:

Contains potential reptile hibernacula features?

-Y* / -N / -Unknown, no access (*if yes, describe in table below)

[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?

-Y* / -N / -Unknown, no access (*if yes, describe in table below)

[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED

UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features:

Contains potential bat roosting features?

-Y* / -N / -Unknown, no access (*if yes, describe in table below)

[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED

UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests:

Contains large stick nests?

-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED

UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools:

Contains seeps/springs/vernal pools?

-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED

UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?
<u>NUMEROUS</u>	<u>VERNAL POOLS</u>	<u>- SEE NOTE</u>	<u>BELOW</u>	<u>BELOW</u>		

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- POTENTIALLY SUITABLE AMPHIB BREEDING HABITAT
 - NORTH HALF MARSHY, GRADUALLY BECOMING MUDAGE/YOUNG FURTHER SOUTH
 - V. POOLS PRIMARILY RESTRICTED TO NORTH HALF (ABSENT OF WATER)

CA=carcass; DP=distinctive parts; FB=feeding evidence; FY=eggs/nest; HO=house/deer; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILE 3 - WEST OF S14

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Ashland Island POLYGON: 6-3
 SURVEYOR(S): J. S. L. C. DATE: JULY 28-11 UTME:
 START: END: UTMZ: UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	<i>Fraxinus, Alnus, Acer, Quercus</i>
2 SUB-CANOPY	3	4	<i>Fraxinus, Alnus, Acer, Quercus</i>
3 UNDERSTOREY	4	2	<i>Sparganium, Typha, Sagittaria, Carex</i>
4 GRD. LAYER	5-7	4	<i>Carex, Sagittaria, Typha, Sparganium</i>

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<50% 4=CVR=60%

STAND COMPOSITION:

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

SOIL ANALYSIS:

TEXTURE: SIC DEPTH TO MOTTLES/GLEY: 9 = 14cm G= 65cm
 MOISTURE: 4 DEPTH OF ORGANICS: 1cm
 HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: 75cm before
CLAY TOO DEEP

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: 0072
 COMMUNITY SERIES:
 ECOSITE:
 VEGETATION TYPE: ASHLAND deciduous forest
 INCLUSION
 COMPLEX

Evidence of Disturbance / Notes: PIC 28
- VARIABLE HERBACEOUS COMPOSITION
- USING DUES > 50% WOULD BE WETLAND
- MIXED AGE: MANY STANDING SNAGS

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: POLYGON:
 DATE:
 SURVEYOR(S):

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
FRAX	D	0-A			
ALN	0	0-A			
ACER	R	R			
QUER					
SPARG					
TYPH					
SAGIT					
CAREX					
VIOLA					
LYC					
SPALBA			0-A		
CORACE			0		

Quality Control: This form is complete & legible

Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)



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Tel: (519) 836-6050
Fax: (519) 836-2493

Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Ambaot Island

Date: July 28, 2011

Field Personnel: Jileslic

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>25</u>	<u>2-3</u>	<u>20%</u>	<u>∅</u>	<u>∅</u>

ELC Polygon: # 16-3 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

Various BIRD spp.

CA=carcass; DP=distinctive parts; FE=feeding evidence; EY=eggs/nest; HO=house/den; OB=observed; SC=seat; SI=other sign; TK=track; VO=vocalization

TILEZ - SOUTH OF S24

ELC
 SITE: POLYGON: 13-4
 SURVEYOR(S): J. Leslie DATE: 10 AUG 3-11
 COMMUNITY DESCRIPTION & CLASSIFICATION: UTME: UTMN:
 CLASSIFICATION SURVEYOR(S):

LAYERS: 1=CANOPY > 10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER			
	1	2	3	4		1	2	3	4
ALBERC	D								
ACEFRAC	O								
					AST LARX				
					SUN ELVS				
					CAR 'LEAF =				
					ELY SPRL				
					SPARK GRASS				
					LIC UNIF				
					EDN ARVE				
					ONG SEVS				
					J. PULPIT				

Quality Control: This form is complete & legible
 Signature: [Signature]
 (Project Manager)

ELC
 SITE: Ambrose Island POLYGON: 13-4
 SURVEYOR(S): J. Leslie DATE: 10 AUG 3-11
 COMMUNITY DESCRIPTION & CLASSIFICATION: UTME: UTMN:
 CLASSIFICATION SURVEYOR(S):

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	frequent 7 Ac tree
2 SUB-CANOPY	3	4	
3 UNDERSTOREY	4	3	
4 GRD. LAYER	5.2	4	spider

HT CODES: 1=-25m 2=10<HT<25m 3=2<HT<10m 4=3<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<50% 4=CVR>60%

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS:	<10	10-24	25-50	>50
STANDING SNAGS:	0	R	N	N
DEADFALL LOGS:	0	0	0	0

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

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

SOIL ANALYSIS:

TEXTURE: DEPTH TO MOTTLES/GLEY g=

MOISTURE: DEPTH OF ORGANICS: g=

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: SW2-2

COMMUNITY SERIES: CODE:

ECOSITE: CODE:

VEGETATION TYPE: *greenish mineral dunes*

INCLUSION: CODE:

COMPLEX: CODE:

Evidence of Disturbance / Notes: SOIL MOIST, INFREQUENT SURFACE POOLS (2-10cm DEEP)

Page ___ of ___
 Signature: [Signature]
 (Field Personnel)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: Aug 3, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26</u>	<u>1-2</u>	<u>0</u>	<u>0</u>	<u>rain</u>

ELC Polygon: # 13-4 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/cracks points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; LP=distinctive parts; FB=feeding evidence; PY=egg/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO= vocalization

TILE 3 - SOUTHEAST OF S24

ELC
 SITE: POLYGON: 1322
 COMMUNITY DESCRIPTION & CLASSIFICATION: J. LESLIE
 DATE: AUG 3 11
 SURVEYOR(S): END: UTMZ:
 SURVEYOR(S): UTMN:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
					SLICYLE					O-A
					EUNGRAN					O
					(MAY NAME)					O-A
					HYPARF					R
					SUMPT. MULE					R
					PARACUR					O

Quality Control: This form is complete & legible
 Signature: _____
 Page ____ of ____
 Signature: _____
 (Field Personnel)
 (Project Manager)

ELC
 SITE: Ambient Island
 SURVEYOR(S): J. LESLIE
 DATE: AUG 3 11
 POLYGON: 1322
 COMMUNITY DESCRIPTION & CLASSIFICATION: END: UTMZ:
 SURVEYOR(S): UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	4-5	4	Splachna
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	6-7	4	SLICYLE = Carex acutata 7-10-15cm = prairie

HT CODES: 1=>25m 2=10-HT<25m 3=HT<10m 4=1-HT<5m 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<50% 4=CVR>60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	<10	10 - 24	25 - 50	>50
STANDING SNAGS:	N	N	N	N
DEADFALL/LOGS:	N	N	N	N

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLEY: g=
 DEPTH OF ORGANICS: (cm)
 DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:
 COMMUNITY SERIES: CODE:
 ECOSITE: CODE:
 VEGETATION TYPE: MSHADON SWAMP MIREAL THICKET SWAMP SW1 2-6
 INCLUSION CODE:
 COMPLEX CODE:

Evidence of Disturbance / Notes:



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 3, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26</u>	<u>1-2</u>	<u>☐</u>	<u>☐</u>	<u>rain</u>

ELC Polygon: # B-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=cave; DP=distinctive point; FB=feeding evidence; FY=egg/feet; HD=home/den; OB=observed; SF=seat; SI=other sign; TK=track; VO=volcanic



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 3, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26</u>	<u>1-2</u>	<u>0</u>	<u>0</u>	<u>rain</u>

ELC Polygon: # 133 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive print; FE=feeding evidence; FN=egg/nest; HO=hoard/den; OB=observed; SC=scar; SI=other sign; TR=track; VO=vertical cut

TILE 3 - NE OF S24

ELC	SITE: Amherst Island	POLYGON: 13-1
COMMUNITY DESCRIPTION & CLASSIFICATION	SURVEYOR(S): J. Leslie	DATE: August 3, 2011
	START:	END:
	UTMZ:	UTMN:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
ACEFICE	R				
SPALBO	R				

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
ANAGLN					
EUTGBAN					
SWAMP MILK					
CAJES SP.					
SAL CYPE					
F. LOOSE					

ELC	SITE: Amherst Island	POLYGON: 13-1
COMMUNITY DESCRIPTION & CLASSIFICATION	SURVEYOR(S): J. Leslie	DATE: August 3, 2011
	START:	END:
	UTMZ:	UTMN:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
ACEFICE	R				
SPALBO	R				

STAND DESCRIPTION:	SPECIES IN ORDER OF DECREASING DOMINANCE	
1 CANOPY	2-3	1 Frepen > Arefice
2 SUB-CANOPY		
3 UNDERSTOREY		
4 GRD. LAYER	4-7	4 Phasion > 2-7 Elygram > 5-10 Spialbo > 7-10 Purple loosestrife
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≤50% 4=CVR>50%	
STAND COMPOSITION:	BA:	
SIZE CLASS ANALYSIS:	R	<10
STANDING SNAGS:	R	10-24
DEADFALL/LOGS:	R	25-50
ABUNDANCE CODES:	N=NONE	R=RARE O=OCCASIONAL A=ABUNDANT
COMM. AGE:	YOUNG	MATURE
SOIL ANALYSIS:	DEPTH TO MOTTLINGS/ GLEY g=	
TEXTURE:	DEPTH TO MOTTLINGS/ GLEY g=	
MOISTURE:	DEPTH TO MOTTLINGS/ GLEY g=	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: (cm)	
COMMUNITY CLASSIFICATION:	CODE:	
COMMUNITY CLASS:	CODE: SUD 2-3	
COMMUNITY SERIES:	CODE: SWT 2-6	
ECOSITE:	CODE: SUD 2-3	
VEGETATION TYPE:	REED CANALY MIXED SWAMP MARSH MARCH	
INCLUSION	LAWSON	
COMPLEX	CODE: SUD 2-3	
Evidence of Disturbance / Notes: - SMALL FREEMAN SWAMP ON EAST END 2 - REMAINDER IS CHANGING TO MARSH SWAMP		

Quality Control: This form is complete & legible
 Signature: (Signature) (Project Manager)
 Page ___ of ___ (Field Personnel)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 3, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	26	1-2	0	0	rain

ELC Polygon: #13-1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CN=canass; DP=distinctive points; DE=dealing evidence; ES=eggs/nest; HC=hoarse/can; DB=downed; SC=seat; SI=other sign; TK=track; VC=vegetation



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amheest Island

Date: Aug 5, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20^o</u>	<u>1</u>	<u>5%</u>	<u>0</u>	<u>0</u>

ELC Polygon: #4-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=crepus; DP=distinctive parts; FE=feeding evidence; FN=egg/nest; FO=food item; OB=observed; SC=scar; SL=solar sign; TK=track; VO=vocalization

TILE 4 - SOUTH OF SOL

ELC SITE: Anchoat Island POLYGON: 4-4
 COMMUNITY SURVEYOR(S): J Leslie DATE: AUG 5-11 UTME: _____
 DESCRIPTION & START: _____ END: _____ UTMZ: _____
 CLASSIFICATION UTMN: _____

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (-> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	2	HAARPER = OSIVIRK 7 TLAMAR
2 SUB-CANOPY	3	4	OSIVIRK 7 TLAMAR
3 UNDERSTOREY	4-5	7	Rubidag 7 Rubocall 7 Coriace
4 GRD. LAYER	6-7		Daucalo = Sochas Avus Solcario

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<50% 4=50<CVR<60%

STAND COMPOSITION:

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

SOIL ANALYSIS:

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
D-F LGRAND DECUL FOREST	600 4-4*
INCLUSION	CODE:
COMPLEX	CODE:

Evidence of Disturbance / Notes: - MARKET LOW UNDER 2 TIMES FOR GROUND COVER

ELC SITE: _____ POLYGON: _____
 COMMUNITY DESCRIPTION & DATE: _____
 CLASSIFICATION SURVEYOR(S): _____

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				
	1	2	3	4		1	2	3	4	
OSV VIRK					DAUCALO					
TLAMAR					SOCHAS AV.					
ACE H5E					LAMB'S QUAM					
					SO CANA					
					CIL LUTE					
					GRF FORS					

Page _____ of _____

Signature: _____

(Field Personnel)

(Project Manager)

Quality Control: This form is complete & legible Signature: _____



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amkewat Island

Date: Aug 5, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20</u>	<u>1</u>	<u>50%</u>	<u>0</u>	<u>0</u>

ELC Polygon: #4.4 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CY=crevice; LP=substrate ports; FB=feeding evidence; PY=eggs/nest; HO=hoop fern; OB=observed; SC=scar; SI=silver sign; TK=track; VO=voicelation



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst island

Date: AUG - 5 - 11

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26</u>	<u>2-3</u>	<u>10%</u>	<u>0</u>	<u>0</u>

ELC Polygon: #4-a Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows))
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. karst topography, abandoned mines or caves)

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree)

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

Y=Yes, N=No, U=Unknown, P=Partial, V=Visual, W=Walk through, R=Roadside, A=Assessment, O=Observed, B=Burrows, C=Cavities, D=Disturbance, E=Entrance, F=Feature, G=Ground, H=Habitat, I=Inhabited, J=Juncus, K=Kalmia, L=Larva, M=Marsh, N=Nest, O=Observed, P=Pool, Q=Quercus, R=Roadside, S=Shrub, T=Tree, U=Unknown, V=Vernal, W=Water, X=Xerus, Y=Yes, Z=Zone

ELC SITE: AT POLYGON: 4-3
 SURVEYOR(S): JR DATE: AUG 5-11 UTMZ: UTM: UTMN:
 START: END: UTMZ: UTM: 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 type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> OPEN <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL <input type="checkbox"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	1	Flapenn
2 SUB-CANOPY			
3 UNDERSTOREY	4	3	CORRIAC 77 Spalbe = subidal
4 GRD. LAYER	5-7	4	SOL GIRA > EUTRAN > AGROSTIS

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<50% 4=CVR>50%

STAND COMPOSITION:

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

SOIL ANALYSIS:

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____
 COMMUNITY SERIES: _____
 ECOSITE: _____
 VEGETATION TYPE: GRAY OAK WOOD CURSIVE
 INCLUSION: THICKET
 CODE: CST 1-4
 CODE: _____
 CODE: _____
 CODE: _____
 CODE: _____

Evidence of Disturbance / Notes:

TILE 4 - south of S01
ELC SITE: _____
 POLYGON: _____
 SURVEYOR(S): _____
 DATE: _____
 CLASSIFICATION SURVEYOR(S): _____

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER		ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT			
SPECIES CODE	LAYER				COLL.
	1	2	3	4	
FLAPENN	R				
EUTRAN					DA
SOL GIRA					R-D
DASCARO					R
ASC STRI					O
VIC CRAX					O
FIELD BIRD W.					O
AGT NYVA. AM.					O
THA ALJIN					O
CAR VJUP					O
AGRO STOC					O
SLICURE					R
SOL GIRA					A
CARSK GRASS					R
SPI ALBA					R O
SOL RACE					O A O
R-WOOD					R R

Page _____ of _____
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)
 Quality Control: This form is complete & legible



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960593

Project Name: Amherst island

Date: Aug 5-11

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	25	1-2	50%	∅	∅

ELC Polygon: # 4-3 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows))
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. karst topography, abandoned mines or caves)

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED

UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities <10m high in trees)

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED

UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED

UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED

UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

* Y=Yes, N=No, U=Unknown, P=Potential, R=Reptile, B=Bat, S=Seep, Sp=Spring, V=Vernal Pool, F=Feature, S=Species, O=Observed, U=Used, L=Listed, S=L, N=Not Observed/Used



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: Aug 4/11

Field Personnel: Matthew Ross

Weather Conditions:	TEMP (°C): <u>19-26</u>	WIND: <u>3-4</u>	CLOUD: <u>0-30%</u>	PPT: <u>None</u>	PPT (in last 24 hrs): <u>Rain</u>
---------------------	----------------------------	---------------------	------------------------	---------------------	--------------------------------------

ELC Polygon: # G Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

BCCM BBCU
 HLOWR
 SOSP
 AMGO
 EAKI
 GRCA
 BARS

CA=enclass; DP=distinctive parts; FB=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 1609605AS

Project Name: Amherst Island

Date: Aug 4/11

Field Personnel: Matthew Ross

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>19-26</u>	<u>3-4</u>	<u>0-30%</u>	<u>None</u>	<u>Rain</u>

ELC Polygon: # F Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

EAWP E. chipmunk
 MODO Red squirrel
 REV (

AMGO
 AMRO
 RBGR
 BLJA
 WBNH

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILE 4 - SW of S10

ELC SITE: A.I. POLYGON: 2-1

COMMUNITY DESCRIPTION & CLASSIFICATION: SURVEYOR(S): J. Leslie DATE: AUG 3-11

START: END: UTMZ: 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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED	<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 type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	CANOPY 2 Fraxinus, Quercus, Acer
2 SUB-CANOPY	3	4	Fraxinus, Quercus, Acer
3 UNDERSTOREY	4	4	Rubus, etc.
4 GRD. LAYER	5.3	4	Rubus, etc.

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<50% 4=50<CVR<60% 5=60<CVR<75% 6=75<CVR<90% 7=90<CVR<100%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	A	<10	A	10-24	A	25-50	R	>50
STANDING SNAGS:	A	<10	R	10-24	R	25-50	M	>50
DEADFALL/LOGS:	A	<10	G	10-24	R	25-50	M	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	SIC	DEPTH TO MOTTLES/GLEY	g= 70cm	G= NONE
MOISTURE:	6	DEPTH OF ORGANICS:	0	(cm)
HOMOGENEOUS / VARIABLE		DEPTH TO BEDROCK:	7120cm	(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: F-M S.M.S.B.M.K. HICKORY DECID. FOREST

VEGETATION TYPE: F-M S.M.S.B.M.K. HICKORY DECID. FOREST

INCLUSION CODE: (N) 9-4

COMPLEX CODE:

Evidence of Disturbance / Notes: - LIKELY TRANSITION INTO SWP

ELC SITE: POLYGON: COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
CAU NIM	0	A	0	0	
CAU PDR	0	0	0	0	
CAU MAR	0	0	0	0	
ACU PDR	0	0	0	0	
CAU CARO	0	0	0	0	
TIL MAR	0	0	0	0	
2-PLUPIT					
POLYCARP					
WIK LUTE					
WOODNETTLE					
WID P.D.J.					
WIDLY CICCIT					
WIDLY RORR (BLK)					
WID JAC'S					
IMP CARP					
IMP KERN					
WOODLAND SUNFL.					
PANIS PDR					
AAA VIRG					
KALUM T.M.					
RED BR-OSQ/M					
RHU (AD)			0	0	
RUB PDR					

Page ___ of ___

Quality Control: This form is complete & legible Signature: _____ (Project Manager)

Signature: _____ (Field Personnel)

FURTHER SOUTH.



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60950695

Project Name: Amherst Island

Date: August 3, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26</u>	<u>1-2</u>	<u>∅</u>	<u>∅</u>	<u>Rain</u>

ELC Polygon: #2-1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	
<u>See comments</u>			<u>∅</u>	<u>/</u>	<u>NO</u>	<u>NO</u>	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- RED SQUIRREL
- VARIOUS SMALL, DRY AREAS WHERE PROLONGED POOLING IS EVIDENT
- THESE ARE RESTRICTED TO THE DARKEST AREAS SEEN ON AIR PHOTO

CA=carcass; DP=disturbance point; FF=feeding evidence; FY=egg/nest; HD=hair/feather; OB=observed; SC=scar; SL=soil sign; TN=track; VO=ovulation



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: Amherst Island

Date: August 3, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>1-2</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>Rain</u>
---------------------	-------------------------	---------------------	--------------------	------------------	--------------------------------------

ELC Polygon: # 22 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=egg/feet; HO=home/roost; OB=observer; SC=scar; SH=other sign; TR=track; VO=vegetation



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Stantec

Woodland & Wildlife Habitat Assessment Form

Project Number: 60960595

Project Name: A.I.

Date: Aug 3-11

Field Personnel: J.T.

Weather Conditions:	TEMP (°C): <u>20</u>	WIND: <u>1-2</u>	CLOUD: <u>☼</u>	PPT: <u>☼</u>	PPT (in last 24 hrs): <u>RAIN</u>
----------------------------	-------------------------	---------------------	--------------------	------------------	--------------------------------------

ELC Polygon: # 2-5 Assessment Type: -Visual; no access / -Walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=seal; SI=other sign; TK=track; VO=vocalization

TILE 4 - NORTH OF S10

ELC
 SITE: A.I. POLYGON: 2-3a
 SURVEYOR(S): SM DATE: AUG 3-11 UTM: _____
 START: _____ END: _____ UTMZ: _____ 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 COVER <input type="checkbox"/> OPEN <input checked="" type="checkbox"/> SHRUB <input type="checkbox"/> TREE	<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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	21		FRAPSON
2 SUB-CANOPY			
3 UNDERSTOREY	4	3	COCCAGE > CLAPSON > SPIALBA
4 GRD. LAYER	5-7	4	SOL CANA > AGC STOL > EUT GRAM

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<50% 4=CVR>50%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	BA <10	R 10-24	N 25-50	M >50
STANDING SNAGS:	R <10	R 10-24	N 25-50	M >50
DEADFALL/LOGS:	R <10	N 10-24	N 25-50	M >50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLEY: _____ g= _____
 DEPTH OF ORGANICS: _____ (cm)
 DEPTH TO BEDROCK: _____ (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____ CODE: _____
 COMMUNITY SERIES: _____ CODE: _____
 ECOSITE: _____ CODE: _____
 VEGETATION TYPE: GRASS DUNE ROAD CULTURA THICKET CODE: CUT1-4
 INCLUSION: _____ CODE: _____
 COMPLEX: _____ CODE: _____

Evidence of Disturbance / Notes:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
FRAPSON	R				
POA PLAT					
EUT GRAM					
HOAL-ALL					
ASC SYRI					
SAL GIGA					
INDIAN HOAL					
VIC GRAC					
TRIL AURE					
MEL ALBA					
DA SCAR					
YER. S. CLOVER					
RBL CLOVER					
AGC STOL					
SAL DULC					
SAL CANA					
VIT RIPA					
SPI ALBA					
CORACE					

Page ___ of ___
 Signature: _____
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: _____
 (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: A.I.

Date: AUG 3-11

Field Personnel: JTL

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26</u>	<u>1-2</u>	<u>☐</u>	<u>☐</u>	<u>RAIN</u>

ELC Polygon: # 23a Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA - carcass; DP - distinctive parts; FE - feeding evidence; FY - eggs/nest; HO - house/den; OB - observed; SC - scat; SI - other sign; TK - track; VO - vocalization

TILE 4 - NAME of S10

ELC
 SITE: AI - POLYGON: 236
 SURVEYOR(S): SMC DATE: AUG 3-11 UTM:
 START: UTMZ:
 END: UTMN:
POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	21	RA	RA
2 SUB-CANOPY	43		
3 UNDERSTOREY	52		
4 GRD. LAYER			

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

STAND COMPOSITION:

BA: _____

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

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

TEXTURE: S: C DEPTH TO MOTTLES/GLEY: g= 20cm G=
 MOISTURE: 6 DEPTH OF ORGANICS: (cm)
 HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: 70cm (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: _____
 COMMUNITY SERIES: CODE: _____
 ECOSITE: CODE: _____
 VEGETATION TYPE: CODE: _____
 S10 DOGWOOD MINORAL THicket SWAMP SINT 29
 INCLUSION: CODE: _____
 COMPLEX: CODE: _____

Evidence of Disturbance / Notes: - SIMILAR TO ADJACENT CUT-14 BUT SP COMP SUCCESS BETTER

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):

SITE: POLYGON:
 DATE: SURVEYOR(S):

LAYERS: 1=CANOPY > 10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
FLA SP	RA				
CALYX QUAIN					DA
QUIN					0
PERLAT					A
EST GR					0
COR VULP					0
SOL GIGA					0
HEAL ARC					0
MYCUS SP					R
LYC UUVIF					R
CALY SP					0
VIT LPA					0
SP. ALBA					R
CORACE					A

Page ___ of ___
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: AI

Date: AUG 3-11

Field Personnel: JTL

Weather Conditions:	TEMP. (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	26	1-2	0	0	RAIN

ELC Polygon: # 2-36 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA - carcass; DP - distinctive parts; FE - feeding evidence; FY - eggs/nest; HO - house/den; OB - observed; SC - scat; SE - other sign; TK - track; VO - vocalization

TILE 4 - NE of S17

ELC	SITE: Ambler Island	POLYGON: 2-4
COMMUNITY DESCRIPTION & CLASSIFICATION	SURVEYOR(S): Jessie	UTIME:
	DATE: Aug 2-11	UTMZ:
	START:	UTMN:
	END:	

POLYGON DESCRIPTION			
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY
<input type="checkbox"/> TERRESTRIAL <input checked="" 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 checked="" 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"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> SHRUB <input type="checkbox"/> SAND / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED
PLANT FORM	COMMUNITY		
<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 type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input checked="" type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION		

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (->MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	24	4	Fraxinus
2 SUB-CANOPY	4	1	Corobol
3 UNDERSTOREY	5-7	4	Phormium T. Carex spp > edging
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<50% 4=CVR>60%

STAND COMPOSITION:

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

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SIC DEPTH TO MOTTLES/GLEY 9= 15 cm G= 30 cm
 MOISTURE: DEPTH OF ORGANICS: 7 cm
 HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:
 COMMUNITY SERIES: CODE:
 ECOSITE: CODE:
 VEGETATION TYPE: GREEN ASH M. NIELER DECIP. SWAMP. CODE: S107-2
 INCLUSION CODE:
 COMPLEX CODE:

Evidence of Disturbance / Notes: - Old upperside
 - some surface 110 < 1000

ELC	SITE:
COMMUNITY DESCRIPTION & CLASSIFICATION	POLYGON:
	DATE:
	CLASSIFICATION SURVEYOR(S):

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Fraxinus					A
Carex spp					OA
False net					O
Elymus					OA
Men arve					O
Clearweed					O
Sol Dunc					O
Mim R. R. G.					R

Page ___ of ___

Quality Control: This form is complete & legible

Signature: _____ (Field Personnel)
 _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: Amhurst Island

Date: August 3, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26</u>	<u>1-2</u>	<u>∅</u>	<u>∅</u>	<u>Rain</u>

ELC Polygon: # 2-4 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL REPTILE / BAT HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Sp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED					
UTM	Tree Sp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive print; FP=feeding evidence; FY=egg/feet; HD=habitat; OB=observed; SC=scar; SI=other sign; TK=track; VO=volatilization

TILE 4 - SOUTH OF S17

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Ambush Island POLYGON: 2-7 UTW: _____
 SURVEYOR(S): SC DATE: AUG 3-11 UTM: _____
 START: _____ END: _____ UTMZ: _____

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):

SITE: _____ POLYGON: _____
 DATE: _____

POLYGON DESCRIPTION

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

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
CAAPEND	A	O	R		ONSSENS					D
CALOVAT	R	O			RUBPUBE					A
QUSMACK	O	O			S.PULPIT					R-O
GLAPISA	/	O	R		FRA VIRE					O
CALCAGS	/	O	R		CRUX SP.					O
ACEGRS	O	R	/		GLY SML					O
ULM PUBL	/	O	R		AST. LARG					DA
COLMST	R	/			HG PEARL					DA

STAND DESCRIPTION:

SPECIES IN ORDER OF DECREASING DOMINANCE
 (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)

LAYER	HT	CVR
1 CANOPY	2	4
2 SUB-CANOPY	3	4
3 UNDERSTOREY	4	4
4 GRD. LAYER	5-7	4

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<50% 4=50<CVR<60%

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
CAAPEND	A	O	R		ONSSENS					D
CALOVAT	R	O			RUBPUBE					A
QUSMACK	O	O			S.PULPIT					R-O
GLAPISA	/	O	R		FRA VIRE					O
CALCAGS	/	O	R		CRUX SP.					O
ACEGRS	O	R	/		GLY SML					O
ULM PUBL	/	O	R		AST. LARG					DA
COLMST	R	/			HG PEARL					DA

STAND COMPOSITION:

SIZE CLASS ANALYSIS: 0 <10 0 10-24 0 25-50 N >50

STANDING SNAGS: 0 <10 R 10-24 N 25-50 N >50

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

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

COMM. AGE: 0 PIONEER 0 YOUNG 0 MID-AGE X MATURE 0 OLD GROWTH

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
CAAPEND	A	O	R		ONSSENS					D
CALOVAT	R	O			RUBPUBE					A
QUSMACK	O	O			S.PULPIT					R-O
GLAPISA	/	O	R		FRA VIRE					O
CALCAGS	/	O	R		CRUX SP.					O
ACEGRS	O	R	/		GLY SML					O
ULM PUBL	/	O	R		AST. LARG					DA
COLMST	R	/			HG PEARL					DA

SOIL ANALYSIS:

TEXTURE: S/C DEPTH TO MOTTLES/GLEY g=18cm G=none
 MOISTURE: _____ DEPTH OF ORGANICS: 0
 HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: 88
- CAN TOO REUSE

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
CAAPEND	A	O	R		ONSSENS					D
CALOVAT	R	O			RUBPUBE					A
QUSMACK	O	O			S.PULPIT					R-O
GLAPISA	/	O	R		FRA VIRE					O
CALCAGS	/	O	R		CRUX SP.					O
ACEGRS	O	R	/		GLY SML					O
ULM PUBL	/	O	R		AST. LARG					DA
COLMST	R	/			HG PEARL					DA

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____ CODE: _____
 COMMUNITY SERIES: _____ CODE: _____
 ECOSITE: _____ CODE: _____
 VEGETATION TYPE: ASH MANGROVE DECIDUOUS SWAMP CODE: SWD22
 INCLUSION _____ CODE: _____
 COMPLEX _____ CODE: _____

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
CAAPEND	A	O	R		ONSSENS					D
CALOVAT	R	O			RUBPUBE					A
QUSMACK	O	O			S.PULPIT					R-O
GLAPISA	/	O	R		FRA VIRE					O
CALCAGS	/	O	R		CRUX SP.					O
ACEGRS	O	R	/		GLY SML					O
ULM PUBL	/	O	R		AST. LARG					DA
COLMST	R	/			HG PEARL					DA

Evidence of Disturbance / Notes: SOIL MESSY

Quality Control: This form is complete & legible
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: Amhurst Island

Date: August 3, 2011

Field Personnel: J. Leolite

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>1-2</u>	CLOUD: <u>☐</u>	PPT: <u>☐</u>	PPT (in last 24 hrs): <u>Rain</u>
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ELC Polygon: # 2-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	
<u>SEE COMMENTS</u>			<u>☐</u>	<u>✓</u>	<u>NO</u>	<u>NO</u>	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- contains intermittent pooling areas, primarily within open sites

CA=carcass; DP=distinct; L=prints; LR=feeding evidence; NY=eggs/nest; H=hibernacula; OB=observed; SC=seep; S=soil; T=tree; VG=vegetation



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 16096059S

Project Name: Amheew Island

Date: Aug 18, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>1-2</u>	CLOUD: <u>Haze</u>	PPT: <u>∅</u>	PPT (in last 24 hrs): <u>∅</u>
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ELC Polygon: # 52 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

-RTHA - OB

TILE Y - EAST OF 508

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: **A.J.** POLYGON: **55**

SURVEYOR(S): **SP** DATE: **AUG 18-11** UTME:

START: END: UTMZ: UTMN:

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):

SITE: POLYGON:

DATE:

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input checked="" 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 checked="" 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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL <input type="checkbox"/> COVER <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<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 checked="" 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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	5-7	4	Phacelia, Birdweed, etc. etc.

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<50% 4=CVR>60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS: <10 10 - 24 25 - 50 >50

STANDING SNAGS: <10 10 - 24 25 - 50 >50

DEADFALL/LOGS: <10 10 - 24 25 - 50 >50

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

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

SOIL ANALYSIS:

TEXTURE: DEPTH TO MOTTLES/GLEY **g=**

MOISTURE: DEPTH OF ORGANICS: **G=** (cm)

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: **MAM2**

COMMUNITY SERIES: CODE:

ECOSITE: CODE:

VEGETATION TYPE: **Red-twig dogwood riparian meadow marsh**

INCLUSION: CODE:

COMPLEX: CODE:

Evidence of Disturbance / Notes:

- MILD GAPZING ACTIVITY
 - SURFACE H₂O IN DRAIN < 10CM DEEP

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
					PHACELIA					
					LYC. AMOR.					D
					CARX SP.					R
					BIRDWEED					R
					ASC. SP. 1					R
					V. SP. AMOR.					R

Page ___ of ___

Quality Control: This form is complete & legible .
 Signature: _____
 (Project Manager)

Signature: _____
 (Field Personnel)
 - SAUL MESSIC OVERALL



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: Aug 18, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>1-2</u>	CLOUD: <u>Hazy</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	---------------------	-----------------------	------------------	-----------------------------------

ELC Polygon: # 5-5 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in trees]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

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ELC SITE: Amherst Island POLYGON: S13

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): DATE: Aug 18 - 11 UTMZ: UTMN:

START: END: UTMZ: 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 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"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL <input type="checkbox"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED	<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 type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input checked="" type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>-MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	Aspen -> Overm -> Co. o. wat
2 SUB-CANOPY	3	3	Overm -> Co. o. wat = Firpen
3 UNDERSTOREY	4	2	Overm -> Cap. Camo = Ulma mel
4 GRD. LAYER	5.7	4	Carlex sp -> Frax -> Polyanth

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<50% 4=CVR>60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	A <10	A 10-24	O 25-50	R >50
STANDING SNAGS:	O <10	O 10-24	M 25-50	N >50
DEADFALL/LOGS:	O <10	R 10-24	N 25-50	N >50

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

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

SOIL ANALYSIS:

TEXTURE: DEPTH TO MOTTLES/GLEY g=

MOISTURE: DEPTH OF ORGANICS: g=

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:

COMMUNITY SERIES: CODE:

ECOSITE: CODE:

VEGETATION TYPE: F-M OAK - MAPLE - HICKORY DECID. FOREST FOD9

INCLUSION CODE:

COMPLEX CODE:

Evidence of Disturbance / Notes:

- SOIL MOIST / MESIC; FEW SHADY AREAS OF SURFACE H2O

- HEAVILY GRAZED HERB LAYER

TILE N - SOUTH OF S 08

ELC SITE: POLYGON:

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): DATE:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
QSE MACE	O-A	O			
ACE SAGE	R-O	R			
FRAPER	A	O			
CAP. CAMO	O	O			
CAR. O. WAT	O	R			
ULMA MEL	R-O				
POLYCAMM					
VIOLA SP.					
DOG ROSE					
DR. SECS					
CINN. ARIG.					
FRAX VESC					
CARLEX SP.					
W. AVENS					
CALICAM					
VIBLANT					

Quality Control: This form is complete & legible .

Signature: (Project Manager)

Signature: (Field Personnel)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amheewetisland

Date: Aug 18, 2011

Field Personnel: J Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>1-2</u>	<u>Haze</u>	<u>0</u>	<u>0</u>

ELC Polygon: # 5-3 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED

UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED

UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 Y* / N / Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED

UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 Y* / N / Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED

UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

RTHA - 2B
GRCA - 10

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

TILE 4 - NEAR S11

ELC SITE: A.I. POLYGON: T6-7

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): STL DATE: JULY 26-11 UTME:

START: 6:12 END: 6:32 PM UTMZ:

ELC SITE: _____ POLYGON: _____

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): _____ DATE: _____

POLYGON DESCRIPTION

SYSTEM: TERRESTRIAL WETLAND AQUATIC

SUBSTRATE: ORGANIC MINERAL SOIL PARENT MIN. ACIDIC BEDRK. BASIC BEDRK. CARB. BEDRK. SHALLOW WATER SURFICIAL DEP. BEDROCK

TOPOGRAPHIC FEATURE: LACUSTRINE RIVERINE BOTTOMLAND TERRACE VALLEY SLOPE TABLELAND ROLL UPLAND CLIFF TALLUS CREVICE / CAVE ALVAR ROCKLAND BEACH / BAR SAND DUNE BLUFF

HISTORY: NATURAL CULTURAL

PLANT FORM: PLANKTON SUBMERGED FLOATING-LVD. GRAMINOID FORB LICHEN BRYOPHYTE DECIDUOUS CONIFEROUS MIXED

COMMUNITY: LAKE POND RIVER STREAM MARSH SWAMP FEN BOG BARREN MEADOW PRAIRIE THICKET SAVANNAH WOODLAND FOREST PLANTATION

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
SPRICE			R		
SU. MILK					0
ARM SGA					0
SLI ALBA					0
TYP ARKS					0
SWT GRN					0
PHL PRA					0
RED CLAV					R
PRC AJST					R
CAL JULL					0

STAND DESCRIPTION:

LAYER HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)

1 CANOPY

2 SUB-CANOPY

3 UNDERSTOREY 3-4 2 Typangy > Frax

4 GRD. LAYER 5-7 4 Spalax > Swamp milkweed > Ag Giga

HT CODES: 1=>25m 2=10<HT<15m 3=2<HT<10m 4=1<HT<5m 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<50% 4=50<CVR<60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS: R <10 M 10-24 M 25-50 M >50

STANDING SNAGS: N <10 N 10-24 M 25-50 M >50

DEADFALL/LOGS: R <10 N 10-24 M 25-50 M >50

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

COMM. AGE: II PIONEER III YOUNG IV MID-AGE V MATURE VI OLD GROWTH

SOIL ANALYSIS:

TEXTURE: DEPTH TO MOTTLES/GLEY 9=

MOISTURE: DEPTH OF ORGANICS: G=

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____ CODE: _____

COMMUNITY SERIES: _____ CODE: _____

ECOSITE: _____ CODE: _____

VEGETATION TYPE: MINERAL THICKET SWAMP SWT 2-6

INCLUSION: CATTAIL MARSH CODE: MAM

COMPLEX: _____ CODE: _____

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____ CODE: _____

COMMUNITY SERIES: _____ CODE: _____

ECOSITE: _____ CODE: _____

VEGETATION TYPE: _____ CODE: _____

INCLUSION: _____ CODE: _____

COMPLEX: _____ CODE: _____

Evidence of Disturbance / Notes: 47 DATE AND SOUTH EDGE
SPINER STILL ABUNDANT IN CATTAILS
IN EARLY LN

Quality Control: This form is complete & legible

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 595

Project Name: A.I.

Date: July 26 - 11

Field Personnel: ST

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22°C</u>	<u>2</u>	<u>40%</u>	<u>Ø</u>	<u>Ø</u>

ELC Polygon: #16-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- VOLE - OB
 - R L HA - OB
 - MOSS - OB
 - DEER - OB

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=home/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 595

Project Name: A.I.

Date: July 26-11

Field Personnel: JR

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>24°C</u>	<u>2</u>	<u>40%</u>	<u>Ø</u>	<u>Ø</u>

ELC Polygon: # 16-5 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

AM20-VO

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=visualization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 595

Project Name: AI

Date: July 26-11

Field Personnel: STL

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22°C</u>	<u>2</u>	<u>30%</u>	<u>Ø</u>	<u>Ø</u>

ELC Polygon: #16-3! Assessment Type: -Visual; roadside, no access -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open-surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

MONARCH - OB

CA=carcass; DP=distinctive parts; FB=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILE 4 - NORTH OF S03

ELC SITE: A.I. POLYGON: 76.4

COMMUNITY DESCRIPTION & CLASSIFICATION: SURVEYOR(S): SM DATE: 2/26/11

COMMUNITY CLASSIFICATION: SURVEYOR(S): 2.45 END: 4:01 PM

POLYGON DESCRIPTION

SYSTEM: TERRESTRIAL, WETLAND, AQUATIC

SUBSTRATE: ORGANIC, MINERAL SOIL, PARENT MIN., ACIDIC BEDR., BASIC BEDR., CARB. BEDR.

TOPOGRAPHIC FEATURE: LACUSTRINE, RIVERINE, BOTTOMLAND, TERRACE, VALLEY SLOPE, TABLELAND, ROLL. UPLAND, CLIFF, TALUS, CREVICE/CAVE, OPEN, PRAIRIE, SHRUB, TREED

HISTORY: NATURAL, CULTURAL

PLANT FORM: PLANKTON, SUBMERGED, FLOATING-LVD., GRAMINOID, FORB, BRYOPHYTE, DECIDUOUS, CONIFEROUS, MIXED

COMMUNITY: LAKE, POND, RIVER, STREAM, MARSH, SWAMP, FEN, BOG, BARREN, MEADOW, PRAIRIE, THICKET, SAVANNAH, WOODLAND, FOREST, PLANTATION

STAND DESCRIPTION:

LAYER: CANOPY (HT 2, 3, 4), SUB-CANOPY (HT 2, 3), UNDERSTOREY (HT 4.5, 3), GRD. LAYER (HT 6.7)

SPECIES IN ORDER OF DECREASING DOMINANCE: FLA PER > TIL AMER > V WHTUB, FLA PER > TIL AMER > ULRXW, SPT ALBA > FLA PER > TIL AMER > TIL AMER, CALVOP = CANOVALLA > ASTHATE

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

CVR CODES: 0=NONE 1=0%<CVR<10% 2=10%<CVR<25% 3=25%<CVR<50% 4=50%<CVR<60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:

<10	10-24	25-50	>50
0	0	0	N

STANDING SNAGS:

<10	10-24	25-50	>50
0	0	R0	R

DEADFALL/LOGS:

<10	10-24	25-50	>50
0	0	0	R

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

COMM. AGE: PIONEER (), YOUNG (X), MID-AGE (), MATURE (), OLD GROWTH ()

SOIL ANALYSIS: → SEE NOTES

DEPTH TO MOTTLES/GLEY: g= 12cm G= φ

DEPTH OF ORGANICS: 1cm

DEPTH TO BEDROCK: 68cm (CLAY TOSS) DEPTH TO GO FURNEL

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: FOD 7-2

COMMUNITY SERIES: CODE: FOD 7-2

ECOSITE: CODE: FOD 7-2

VEGETATION TYPE: F-1 ASH LOWLAND DECID. FOREST

INCLUSION: CODE: FOD 7-2

COMPLEX: CODE: FOD 7-2

Evidence of Disturbance / Notes: P-I.C AS - EVIDENCE OF SPRING INVADATION OF 10cm DEPTH - YOUNG FOD 7-2 THICKET ALONG EAST EDGE

ELC SITE: POLYGON: COMMUNITY DESCRIPTION & CLASSIFICATION: SURVEYOR(S):

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER

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

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
FLA PER	D0A				
VCM PUBL	R0				
TIL AMER	R0				
V WHTUB					
PAC PAAT					
CANOVALLA					
VIC CRALL					
CAL SPIC					
LYC EUBO					
AST LATE					
HEAL AL					
DAU CALZ.					
DAIST FLOA.					
M. AVENS					
PASPALE GRAS					
TALL BRACKP					
SUT SARI					
ASS LANC					
CPA VESC					
FLY VIBC					
CAL GAG					
GAL GRIF					
CLL LAB					
SOL GULC					
GLE TETRA					
SPICKED GRASS					
SUR. PINE W.					
WOOD - GLE					
IMP CAPS					
JUN EFW					

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
LOW TATA					
RUB L DAE					
COR SIOU					
RUN RADI					
SPT ALBA					

Quality Control: This form is complete & legible

Signature: (Field Personnel)

Signature: (Project Manager)

Page ___ of ___



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 595

Project Name: A.I.

Date: JULY 26 -11

Field Personnel: JTL

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>24C</u>	<u>2</u>	<u>50%</u>	<u>Ø</u>	<u>Ø</u>

ELC Polygon: # 76-4 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

RTHA - VO

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=seat; SI=other sign; TK=track; VO=vocalization

TILE 4 - NEAR 525

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION: **ELC**
 SITE: **A.I.** POLYGON: **5-12-1**
 SURVEYOR(S): **SM** DATE: **Aug 19-12** UTM: _____
 START: _____ END: _____ UTMZ: _____ UTMN: _____

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY	5	3	SPALBA >>> COL STOL
4 GRD. LAYER	4-7	4	POALBA & > HOAL-ALL = CAREY SP.

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<50% 4=CVR>50%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	N	<10	M	10-24	M	25-50	N	>50
STANDING SNAGS:	N	<10	M	10-24	M	25-50	N	>50
DEADFALL/LOGS:	N	<10	M	10-24	M	25-50	N	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLEY: g=

DEPTH OF ORGANICS: (cm) G=

DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: _____

COMMUNITY SERIES: CODE: _____

ECOSITE: CODE: _____

VEGETATION TYPE: MEADOWS WITH CULTURAL THICKET CODE: CUT-7/AG

INCLUSION CODE: _____

COMPLEX CODE: _____

Evidence of Disturbance / Notes:

- WITHIN AN ACTIVE CATTLE GRAZING / TRAMPLING

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
POALBA					A
HOAL-ALL					O
CAREY SP.					O
SCUL-SPE					R
TAR OFF					O
COL STOL					R
SPALBA					O-A

Page ___ of ___ Quality Control This form is complete & legible

Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)



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 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60595

Project Name: A.I.

Date: AUG 17 - 11

Field Personnel: ST.L.

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	22	1-2	50%	0	0

ELC Polygon: # 5-12 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features:

Contains potential reptile hibernacula features?

-Y* / -N / -Unknown, no access (*if yes, describe in table below)

[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?

-Y* / -N / -Unknown, no access (*if yes, describe in table below)

[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED

UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features:

Contains potential bat roosting features?

-Y* / -N / -Unknown, no access (*if yes, describe in table below)

[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED

UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests:

Contains large stick nests?

-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED

UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools:

Contains seeps/springs/vernal pools?

-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED

UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA - carcass; DP - distinctive parts; FE - feeding evidence; FY - eggs/nest; HO - house/den; OB - observed; SC - scat; SI - other sign; TK - track; VO - vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: A.I.

Date: AUG 19-11

Field Personnel: JN

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	22	1-2	50%	0	0

ELC Polygon: # 5 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA - carcass; DP - distinctive parts; FE - feeding evidence; FY - eggs/nest; HO - house/den; OB - observed; SC - scat; SI - other sign; TK - track; VO - vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: AI

Date: AUG 19-11

Field Personnel: JTL

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>25</u>	<u>1-2</u>	<u>5%</u>	<u>X</u>	<u>X</u>

ELC Polygon: #8-86 Assessment Type: -Visual; no access / -Walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

TILE 4 - NEAR 516

ELC SITE: AT POLYGON: 8-8a

COMMUNITY DESCRIPTION & CLASSIFICATION: SW SURVEYOR(S): AT DATE: AUG 19-11 UTME: _____

START: _____ END: _____ UTMZ: _____ UTMN: _____

ELC SITE: _____ POLYGON: _____

COMMUNITY DESCRIPTION & CLASSIFICATION: _____ SURVEYOR(S): _____

POLYGON DESCRIPTION

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

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER

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

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
SP1 ALBA					D
SP2 ALBA					
SP3 ALBA					
SP4 ALBA					
SP5 ALBA					
SP6 ALBA					
SP7 ALBA					
SP8 ALBA					
SP9 ALBA					
SP10 ALBA					
SP11 ALBA					
SP12 ALBA					
SP13 ALBA					
SP14 ALBA					
SP15 ALBA					
SP16 ALBA					
SP17 ALBA					
SP18 ALBA					
SP19 ALBA					
SP20 ALBA					

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE
1 CANOPY	3	1	FRAPENN
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	4-7	4	SP1ALBA >> SCICUCPEL > AGRSTON

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<50% 4=50%<CVR<60%

STAND COMPOSITION:

BA: _____

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

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

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

SOIL ANALYSIS:

TEXTURE: _____ DEPTH TO MOTTLES/GLEY _____ g=

MOISTURE: _____ DEPTH OF ORGANICS: _____ (cm)

HOMOGENEOUS / VARIABLE _____ DEPTH TO BEDROCK: _____ (cm)

COMMUNITY CLASSIFICATION: _____

COMMUNITY CLASS: _____ CODE: _____

COMMUNITY SERIES: _____ CODE: _____

ECOSITE: _____ CODE: _____

VEGETATION TYPE: MEADOWSWEET MINERAL THICKEST CODE: SWST 2-6

INCLUSION: SWAMP CODE: _____

COMPLEX CODE: _____

Quality Control: This form is complete & legible

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

Evidence of Disturbance / Notes:

- CANOPY DISTURBANCE

- SWAMP DISTURBANCE IN THIS POLY



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: A.I.

Date: AUG 19-11

Field Personnel: JTL

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	25	1-2	5%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

ELC Polygon: #8-8a Assessment Type: -Visual; no access / -Walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=seat; SI=other sign; TK=track; VO=vocalization

TILE 4 - BETWEEN S03 & S35

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: AMHERST POLYGON: TILE 4
 SURVEYOR(S): STC DATE: APRIL 28 - 12 UTME:
 START: END: UTMZ: UTMN:

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):

SITE: POLYGON:
 DATE:

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"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<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"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<input type="checkbox"/> LAGUSTRINE <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 DUINE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL <input type="checkbox"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED	<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 type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input checked="" type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
ACEJSA	A	D	A		CAE BEDR					
FAGGRAR	A	D	A		SAL BEDR					
OSY VING	R	O			RA VISC					
BET ALLE	R				ANEMO JR					
TILAMEL	R									
FRAMER	R									

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	ACEJSA > FAGGRAR > TILAMEL
2 SUB-CANOPY	3	4	ACEJSA = FAGGRAR > FRAMER
3 UNDERSTOREY	4	4	FAGGRAR > ACEJSA = FRAMER
4 GRD. LAYER	5-7	4	FORB > GRAMINOID

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<50% 4=50-<CVR<60%

STAND COMPOSITION:

BA:

SIZE CLASS ANALYSIS:	<10	10-24	25-50	>50
STANDING SNAGS:	N	R	M	N
DEADFALL/LOGS:	D	O	R	N

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

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

SOIL ANALYSIS:

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:
 COMMUNITY SERIES: CODE:
 ECOSITE: CODE:
 VEGETATION TYPE: D-F SUGAL MAPLE - BEECH DECID. FOREST F0502
 INCLUSION CODE:
 COMPLEX CODE:

Quality Control: This form is complete & legible

Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: AI

Date: APR 28, 2012

Field Personnel: JR

Weather Conditions:	TEMP (°C): <u> </u>	WIND: <u> </u>	CLOUD: <u> </u>	PPT: <u> </u>	PPT (in last 24 hrs): <u> </u>
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ELC Polygon: # A Assessment Type: -Visual; no access / -Walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

FILE 4 - 505

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: POLYGON: DATE: UTME: UTMN: UTMZ:

SURVEYOR(S): END: SURVEYOR(S):

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
ACE SASP	0	R	O	O	GR LUNG					
BET PAPY	0	O	R		TRACOFF					
BIN SPO	0				INT. V. CRAB					
OST WEG					ALC MINN					
ONE PUBC	R				MONA WOOD					
					GOR EBC					
					HEAD AL					

Page ___ of ___
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)
 Quality Control: This form is complete & legible .

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Ambwot Island POLYGON: 8-9
 SURVEYOR(S): Sleslie DATE: Aug 19-11 UTME:
 START: END: UTMZ: UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	Aracasa = Betpary = Ansteb
2 SUB-CANOPY	3	3	ostwig > Betpary & Aracasa
3 UNDERSTOREY	4-5	4	Aracasa = ostwig > Betpary
4 GRD. LAYER	6-7	3	Cir. lute = Tarotti = ALC MINN = Motherwort

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<50% 4=CVR>50%

STAND COMPOSITION:

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

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

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLEY: g= G=
 DEPTH OF ORGANICS: (cm)
 DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:
 COMMUNITY SERIES: CODE:
 ECOSITE: CODE:
 VEGETATION TYPE: CODE: CUNJ-6
 INCLUSION: WOODLAND
 COMPLEX: CODE:

Evidence of Disturbance / Notes: Mowed PATHS EXTEND THROUGH P.C #6



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 19, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND: *	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>25</u>	<u>1-2</u>	<u>5%</u>	<u>0</u>	<u>0</u>

ELC Polygon: #8-9 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- 6 R12 - no

*Y=young, DB=distinctive points of branching (indicates 17+ eggs/eggs), N=non-nest, P=observed, S=seen, M=seen on map, H=seen on map, V=seen on map



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amheon Island

Date: August 19, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>25°C</u>	WIND: <u>1-2</u>	CLOUD: <u>50%</u>	PPT: <input checked="" type="checkbox"/>	PPT (in last 24 hrs): <input checked="" type="checkbox"/>
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ELC Polygon: # 8-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in trees]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

Y= yes, N= no, U= uncertain, D= data deficient, P= partial, I= identifying evidence, P= appropriate, U= uncertain, H= habitat, S= site, C= class, D= depth, L= length, W= width, A= area

TILE 4 - NORTH OF S20

ELC

SITE: MAHER POLYGON: 8

COMMUNITY DESCRIPTION & CLASSIFICATION: SA DATE: AUG 19-11 UTME:

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): DATE: UTMN:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
<u>SLAEPEN</u>										
					<u>PANAMUM</u>					<u>A</u>
					<u>CALYULP</u>					<u>A</u>
					<u>EVN GRAM</u>					<u>A</u>
					<u>DAW CAMP</u>					<u>A</u>
					<u>SON & IGA</u>					<u>A</u>
					<u>AGALCIGA</u>					<u>A</u>
					<u>CAREX-CAVLES</u>					<u>A</u>
					<u>AST MORA</u>					<u>A</u>

Quality Control: This form is complete & legible

Signature: OKC (Field Personnel)

Signature: DR (Project Manager)

ELC

SITE: MAHER POLYGON: 8

COMMUNITY DESCRIPTION & CLASSIFICATION: SA DATE: AUG 19-11 UTME:

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): SA DATE: UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE
1 CANOPY	3	1	<u>SLAEPEN</u>
2 SUB-CANOPY			
3 UNDERSTOREY	4	2	<u>CAREX = SP/IBA</u>
4 GRD. LAYER	5-7	4	<u>PANAMUM > EVN GRAM > SON & IGA</u>

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<50% 4=50%-CVR<60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS: BA:

<10	<u>1</u>	10-24	<u>1</u>	25-50	<u>1</u>	>50
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STANDING SNAGS: 1 >50

DEAD/FALL LOGS: 1 >50

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

COMM. AGE: 1 PIONEER 1 YOUNG 1 MID-AGE 1 MATURE 1 OLD GROWTH

SOIL ANALYSIS:

TEXTURE: g=

MOISTURE: g=

HOMOGENEOUS / VARIABLE DEPTH TO MOTTLES/GLEY: g=

DEPTH OF ORGANICS: g= (cm)

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: g= (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: MAHER 2

COMMUNITY SERIES: MAHER 2

ECOSITE: MAHER 2

VEGETATION TYPE: REED CANOPY GRASS MINGAL MARCH

INCLUSION: MARSH

COMPLEX: MAHER 2

Evidence of Disturbance / Notes:

- H2O ≈ 10cm, confined to DRAM

- PATCHY CRUM OCCURRENCES WITHIN



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Woodland & Wildlife Habitat Assessment Form

Project Number: 60920595

Project Name: AMHERST

Date: AUG 19-11

Field Personnel: JR

Weather Conditions:	TEMP (°C): <u>25</u>	WIND: <u>1-2</u>	CLOUD: <u>5%</u>	PPT: <u>∅</u>	PPT (in last 24 hrs): <u>∅</u>
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ELC Polygon: # 8 Assessment Type: -Visual; no access / -Walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

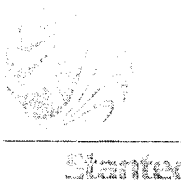
STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=seal; SI=other sign; TK=track; VO=vocalization



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 Tel: (519) 836-6050
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Woodland & Wildlife Habitat Assessment Form

Project Number: 160960595
 Date: August 19, 2011

Project Name: Amherst island
 Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>25</u>	WIND: <u>1-2</u>	CLOUD: <u>50%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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ELC Polygon: # 8.5 Assessment Type: Visual; roadside, no access / Physical; walk through feature
 Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
(i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows))
 Contains potential bat hibernacula features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
(i.e. karst topography, abandoned mines or caves)

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
(i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities - 10m high in trees)

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 Y* / N / Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 Y* / N / Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

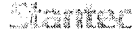
SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)
- FEW SCATTERED SNAGS, ~15cm DBH, SOME w/ FEEDING CAVITIES

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Woodland & Wildlife Habitat Assessment Form



Project Number: 160960595
 Date: August 19, 2011

Project Name: Amheust Island
 Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>25</u>	<u>1-2</u>	<u>50%</u>	<u>∅</u>	<u>∅</u>

ELC Polygon: # 8-6 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in trees]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA = captures; DP = defective pairs; Ph = phytolite products; PY = eggs/nests; RO = roosting sites; Obs = observed; N = see at: 1 = 1; N = 2; ...

TILE 4 - SE of S35

ELC
 SITE: POLYGON:
 COMMUNITY DESCRIPTION & CLASSIFICATION: SURVEYOR(S):
 DATE:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
ELC1	D	A	O		ELC1					
ELC2	R	R	R		ELC2					
ELC3	R	R	R		ELC3					
ELC4	R	R	R		ELC4					
ELC5	R	R	R		ELC5					
ELC6	R	R	R		ELC6					
ELC7	R	R	R		ELC7					
ELC8	R	R	R		ELC8					
ELC9	R	R	R		ELC9					
ELC10	R	R	R		ELC10					
ELC11	R	R	R		ELC11					
ELC12	R	R	R		ELC12					
ELC13	R	R	R		ELC13					
ELC14	R	R	R		ELC14					
ELC15	R	R	R		ELC15					
ELC16	R	R	R		ELC16					
ELC17	R	R	R		ELC17					
ELC18	R	R	R		ELC18					
ELC19	R	R	R		ELC19					
ELC20	R	R	R		ELC20					
ELC21	R	R	R		ELC21					
ELC22	R	R	R		ELC22					
ELC23	R	R	R		ELC23					
ELC24	R	R	R		ELC24					
ELC25	R	R	R		ELC25					
ELC26	R	R	R		ELC26					
ELC27	R	R	R		ELC27					
ELC28	R	R	R		ELC28					
ELC29	R	R	R		ELC29					
ELC30	R	R	R		ELC30					
ELC31	R	R	R		ELC31					
ELC32	R	R	R		ELC32					
ELC33	R	R	R		ELC33					
ELC34	R	R	R		ELC34					
ELC35	R	R	R		ELC35					
ELC36	R	R	R		ELC36					
ELC37	R	R	R		ELC37					
ELC38	R	R	R		ELC38					
ELC39	R	R	R		ELC39					
ELC40	R	R	R		ELC40					
ELC41	R	R	R		ELC41					
ELC42	R	R	R		ELC42					
ELC43	R	R	R		ELC43					
ELC44	R	R	R		ELC44					
ELC45	R	R	R		ELC45					
ELC46	R	R	R		ELC46					
ELC47	R	R	R		ELC47					
ELC48	R	R	R		ELC48					
ELC49	R	R	R		ELC49					
ELC50	R	R	R		ELC50					

Page ___ of ___
 Signature: _____
 Quality Control: This form is complete & legible

ELC
 SITE: Amberst Island
 SURVEYOR(S): J. Leslie
 DATE: AUG 19 2011
 POLYGON: 8-2
 COMMUNITY DESCRIPTION & CLASSIFICATION:
 START: END:
 UTMZ: UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	4	Fraxinus >> Acer tree >> Conocarpus ulmaceae
2	SUB-CANOPY	3	Fraxinus >> Acer tree = Ulmaceae
3	UNDERSTOREY	2	Fraxinus >> Ulmaceae
4	GRD. LAYER	4	Grass >> Convolvulid >> Galium = Elytalia

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: 1=0%<CVR<10% 2=10<CVR<25% 3=25<CVR<50% 4=CVR>50%

STAND COMPOSITION:

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

SOIL ANALYSIS:

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:
 COMMUNITY SERIES: CODE:
 ECOSITE: CODE:
 VEGETATION TYPE: **SWAMP DECID SWAMP**
 INCLUSION: CODE: **SUND-2**
 COMPLEX: CODE:

Evidence of Disturbance / Notes: soil moist to moist; smothered in spots - multiple stages



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amheot Island

Date: August 19, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>25</u>	WIND: <u>1-2</u>	CLOUD: <u>5%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	---------------------	---------------------	------------------	-----------------------------------

ELC Polygon: # 8-7 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

Y=Yes, N=No, U=Unknown, V=Visual, P=Physical, W=Walk through feature, D=Disturbance, O=Observation, S=Site, L=Location, A=Assessment

TILE 42 - TURBINE S22

ELC SITE: Amberst Island (Tib 7 of 17) POLYGON: C
 SURVEYOR(S): Math Ross DATE: Aug 31/11 UTMZ: UTMN:
 START: END: UTMZ: 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"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<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"/> WATER	<input type="checkbox"/> FLACSTRINE <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 checked="" type="checkbox"/> CULTURAL <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<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"/> SWMAP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input checked="" 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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	1	Ac Elm
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			Bromus I. arvensis = Timothy > wild carrot > Agrostis sp

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: /

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

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	G=
MOISTURE:	G=
HOMOGENEOUS / VARIABLE	
DEPTH TO MOTTLES/GLEY	9=
DEPTH OF ORGANICS:	
DEPTH TO BEDROCK:	

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE: CAM1-1
INCLUSION	CODE:
COMPLEX	CODE:

Evidence of Disturbance / Notes:

ELC SITE: Amberst Island (Tib 7 of 17)
 POLYGON: C
 COMMUNITY DESCRIPTION & DATE: Aug 31/11
 CLASSIFICATION SURVEYOR(S): Math Ross

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Ar. Elm	R-O				
Maple sp	R				
Wild Carrot				A	
Grass leaved Goldenrod				O	
Common Milkweed				O	
Bromus I. arvensis				A	
Timothy				A	
Bird's foot Trefoil				A	
Agrostis sp				A	
Early Goldenrod				O	
Common Yarrow				R	
Frag. v.v.				R-O	
Rough leaved Goldenrod				R	
Serpens. cap.				R	
Scirpus				R	
Conyza				R	
Roanoke (com)				R	
White Sweet clover				R	
Red canopy Grass				O	
Common St. Johns wort				R-O	
Ball thistle				R-O	
Potentilla				R	
Heart All				R-O	
Spice a lba				O	

Page 1 of 6
 Signature: [Signature]
 (Field Personnel)
 Signature: [Signature]
 (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Anhurst Island

Date: Aug. 3/11

Field Personnel: Matthew Ross

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20-24</u>	<u>3</u>	<u>90-100</u>	<u>None -> Rain (Enter - in field)</u>	<u>None</u>

ELC Polygon: # C Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

RTHA
SOSP
BCCN
BOBO
EAME
EAKI
BAR5

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=seat; SI=other sign; TK=track; VO=vocalization

TILE 4 + 2 - TURBINE S22

SITE: Amherst Island (Tile 7 of 17)
 POLYGON: A
 DATE: Aug 3/11
 SURVEYOR(S): Matt Ross

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SURVEYOR(S): Matt Ross
 DATE: Aug 3/11
 POLYGON: A
 START: END: UTMZ: UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	R	Am. Elm
2 SUB-CANOPY			
3 UNDERSTOREY	4	A	Gr. Dogwood
4 GRD. LAYER	6-5	R	Grass leaved Galberry

HT CODES: 1=>25m 2=10-HT<25m 3=2-HT<10m 4=1-HT<5m 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:

Am. Elm BA: ✓

SIZE CLASS ANALYSIS:

STANDING SNAGS:	<10	10 - 24	25 - 50	>50

DEADFALL/LOGS:

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

COMM. AGE:

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

SOIL ANALYSIS:

TEXTURE: Clay g = 15 cm G =
 MOISTURE: (cm) DEPTH OF ORGANICS: 20.5 cm (water)
 HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm) UNKNOWN

COMMUNITY CLASSIFICATION:

CODE: CUTI-4
 CODE:
 CODE:
 CODE:
 CODE:

VEGETATION TYPE:

Grass leaved Cultural Thicket

INCLUSION

COMPLEX CODE: CODE:

Evidence of Disturbance / Notes:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
Am. Elm	R				R					
Grass leaved Galberry										
Gr. Dogwood										
Am. Elm										
Gr. Dogwood										
Am. Elm										
Gr. Dogwood										

Page 1 of 6
 Quality Control: This form is complete & legible
 Signature: (Project Manager)



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Guelph, ON
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Tel: (519) 836-6050
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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amlost Island

Date: Aug 3/11

Field Personnel: Matthew Ross

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20-24</u>	<u>3</u>	<u>90-100%</u>	<u>None -> Fair (intermittent)</u>	<u>None</u>

ELC Polygon: # A Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

SOSP ALFL
 YWAR
 HAWO
 COYE
 CEDW
 AMRO

CA=carcass; DP=distinctive parts; FI=feeding evidence; F=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILE 5 - two polygons between S37 & S27

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION
 POLYGON: 10-4
 DATE: AUG 18 - 11
 UTMZ:
 UTMN:
 SURVEYOR(S): J. Leslie
 END:
 POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY	LAYER				COLL.
						1	2	3	4	
<input checked="" type="checkbox"/> TERRESTRIAL	<input checked="" type="checkbox"/> ORGANIC	<input checked="" type="checkbox"/> LACUSTRINE	<input checked="" type="checkbox"/> NATURAL	<input checked="" type="checkbox"/> PLANKTON	<input type="checkbox"/> LAKE					
<input type="checkbox"/> WETLAND	<input checked="" type="checkbox"/> MINERAL SOIL	<input checked="" type="checkbox"/> RIVERINE	<input type="checkbox"/> CULTURAL	<input type="checkbox"/> SUBMERGED	<input type="checkbox"/> POND					
<input type="checkbox"/> AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> BOTTOMLAND		<input type="checkbox"/> FLOATING-LVD.	<input type="checkbox"/> RIVER					
	<input type="checkbox"/> ACIDIC BEDRK.	<input type="checkbox"/> TERRACE		<input type="checkbox"/> GRAMINOID	<input type="checkbox"/> STREAM					
	<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> FORB	<input type="checkbox"/> MARSH					
	<input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> TABLELAND		<input type="checkbox"/> LICHEN	<input type="checkbox"/> SWAMP					
<input type="checkbox"/> SHALLOW WATER		<input type="checkbox"/> ROLL. UPLAND		<input type="checkbox"/> BRYOPHYTE	<input type="checkbox"/> FEN					
<input type="checkbox"/> SURFICIAL DEP.		<input type="checkbox"/> CLIFF		<input type="checkbox"/> DECIDUOUS	<input type="checkbox"/> BOG					
<input type="checkbox"/> BEDROCK		<input type="checkbox"/> TALUS		<input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> BARREN					
		<input type="checkbox"/> CREVICE / CAVE		<input type="checkbox"/> MIXED	<input type="checkbox"/> MEADOW					
		<input type="checkbox"/> ALVAR			<input type="checkbox"/> PRAIRIE					
		<input type="checkbox"/> ROCKLAND			<input type="checkbox"/> THICKET					
		<input type="checkbox"/> BEACH / BAR			<input type="checkbox"/> SAVANNAH					
		<input type="checkbox"/> SAND DUNE			<input type="checkbox"/> WOODLAND					
		<input type="checkbox"/> BLUFF			<input checked="" type="checkbox"/> FOREST					
					<input type="checkbox"/> PLANTATION					

STAND DESCRIPTION:

LAYER 1: CANOPY HT 2 CVR 4
 LAYER 2: SUB-CANOPY HT 3 CVR 4
 LAYER 3: UNDERSTOREY HT 4 CVR 4
 LAYER 4: GRD. LAYER HT 5-7 CVR 4

HT CODES: 1=>25m 2=10-<HT<25m 3=2-HT<10m 4=1-HT<2m 5=0.6-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<50% 4=CVR>50%

SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
 1: *Tilanel* > *Alnus* > *Alnus* > *Alnus* > *Alnus*
 2: *Alnus* > *Alnus* > *Alnus* > *Alnus* > *Alnus*
 3: *Alnus* > *Alnus* > *Alnus* > *Alnus* > *Alnus*
 4: *Alnus* > *Alnus* > *Alnus* > *Alnus* > *Alnus*

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	A	<10	A	10 - 24	A	25 - 50	N	>50
STANDING SNAGS:								
DEADFALL/LOGS:								
ABUNDANCE CODES:								
COMM. AGE:								
SOIL ANALYSIS:								
TEXTURE:								
MOISTURE:								
HOMOGENEOUS / VARIABLE								
DEPTH TO MOTTLES/GLEY								
DEPTH TO ORGANICS:								
DEPTH TO BEDROCK:								

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:
 COMMUNITY SERIES: CODE:
 ECOSITE: CODE:
 VEGETATION TYPE: CODE: 5072

Evidence of Disturbance / Notes:

INCLUSION CODE:
 COMPLEX CODE:

Page ___ of ___
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: Aug 18, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>1-2</u>	CLOUD: <u>Hazy</u>	PPT: <u>∅</u>	PPT (in last 24 hrs): <u>∅</u>
---------------------	-------------------------	---------------------	-----------------------	------------------	-----------------------------------

ELC Polygon: #14.4 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

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TIE 5 - north of S27

ELC
 SITE: POLYGON:
 COMMUNITY DESCRIPTION & CLASSIFICATION: SURVEYOR(S):
 DATE: TIME:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER			
	1	2	3	4		1	2	3	4
FRASER D					FRASER D				
ULM AMBR R					ULM AMBR R				
					PLANTAT				
					CLIN. JULG				
					ELA VILG				
					FRU CARP				
					VIOLA SC				

Quality Control: This form is complete & legible
 Signature: _____ (Project Manager)
 Signature: _____ (Field Personnel)

ELC
 SITE: Ambrosia Island POLYGON: 14-12
 SURVEYOR(S): J. S. 16 DATE: AUG 18-11 TIME:
 START: END: UTMZ: UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2-3	4	Fraxinus Umanet
2 SUB-CANOPY	4-5	2	Rubus
3 UNDERSTOREY	6-7	4	Alnus Pheprat = Chamaecyparis
4 GRD. LAYER			

HT CODES: 1=>25m 2=10-HT<25m 3=2-HT<10m 4=1-HT<5m 5=0.5-HT<5m 6=0<HT<5m 7=HT<0.2m
 CVR CODES: 0=NONE 1=0%-CVR<10% 2=10-CVR<25% 3=25-CVR<50% 4=CVR>60%

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS:	A <10	O 10-24	N 25-50	>50
STANDING SNAGS:	R <10	N 10-24	N 25-50	>50
DEADFALL/LOGS:	R <10	N 10-24	N 25-50	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER Y YOUNG M MID-AGE O OLD GROWTH

SOIL ANALYSIS:

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:
 COMMUNITY SERIES: CODE:
 ECOSITE: CODE:
 VEGETATION TYPE: 6-15 ASH CULTURAL WOODLAND CODE: CUN1-5
 INCLUSION CODE:
 COMPLEX CODE:

Evidence of Disturbance / Notes: MOST TREES 2-10m DBH - CATTLE GRAZE



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: Aug 18, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>1-2</u>	CLOUD: <u>Haze</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	---------------------	-----------------------	------------------	-----------------------------------

ELC Polygon: # 1412 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=census; DP=distinctive print; FE=feeding evidence; FY=eggs/nest; HO=household; OB=observed; SC=seat; SI=other sign; TK=track; VO=vocalization

TILE 5 - WEST OF S 27

ELC	SITE: Ambaot Island	POLYGON: 14-11
COMMUNITY DESCRIPTION & CLASSIFICATION	SURVEYOR(S): J. Leslie	DATE: Aug 18-11
	START: _____	UTMZ: _____
	END: _____	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 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"/> OPEN <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION	<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"/> FEN <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"/> 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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	3	Scaevola > Freyena > Salix discolor > Vicia
2 SUB-CANOPY			
3 UNDERSTOREY	4	3	Nubiaea > Freyena = Vicia > Cor. Sibi = Core. me
4 GRD. LAYER	5-7	4	Pheopicta > Phagnolium > Bulbostylis = KLMW/S

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≤50% 4=CVR>60%

STAND COMPOSITION:

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

SOIL ANALYSIS:

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:	
COMMUNITY SERIES:	CODE:	
ECOSITE:	CODE:	
VEGETATION TYPE: willow cultural thicket	CODE:	CUT 1-9A
INCLUSION	CODE:	
COMPLEX	CODE:	

Evidence of Disturbance / Notes:

pic 3 - ON HILLSIDE & CREST - SOIL DRY
 - BACK IN NATURE MATURE

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: _____
 POLYGON: _____
 DATE: _____

CLASSIFICATION SURVEYOR(S):

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER			
	1	2	3	4		1	2	3	4
Freyena	R				R				
Scaevola									
Nubiaea									
Pheopicta									
Phagnolium									
Bulbostylis									
Core. Sibi									
Core. me									
Salix discolor									
Vicia									
Cor. Sibi									
Salix discolor									
Rubidias									
Vit. (PAPA)									
Vib. lea									
Cor. PAIC									
Salix BOBBI									

Page _____ of _____

Signature: _____ (Field Personnel)

Quality Control: This form is complete & legible

Signature: _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amhurst Island

Date: August 18, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>1-2</u>	CLOUD: <u>Hazy</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	---------------------	-----------------------	------------------	-----------------------------------

ELC Polygon: # H-11 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive prints; FB=feeding evidence; FN=egg/nest; FO=non-feeding; OB=observed; SC=scar; SI=other sign; TS=track; VO=visual observation

ELC
 SITE: Amherst Island POLYGON: 13-6
 SURVEYOR(S): J. Leslie DATE: Aug 18 11 UTMZ: 11
 START: 13-6 END: 13-6 UTMN: 11

POLYGON DESCRIPTION

SYSTEM: TERRESTRIAL WETLAND AQUATIC

SUBSTRATE: ORGANIC MINERAL SOIL PARENT MIN. ACIDIC BEDRK. BASIC BEDRK. CARB. BEDRK.

TOPOGRAPHIC FEATURE: LACUSTRINE RIVERINE BOTTOMLAND TERRACE VALLEY SLOPE TABLELAND ROLL UPLAND CLIFF TALUS CREVICE / CAVE ALVAR ROCKLAND BEACH / BAR BLUFF

HISTORY: NATURAL CULTURAL

PLANT FORM: PLANKTON SUBMERGED FLOATING-LVD. GRAMINOID FORB LICHEN BRYOPHYTE DECIIDUOUS CONIFEROUS MIXED

COMMUNITY: LAKE POND RIVER STREAM MARSH SWAMP BOG BARREN MEADOW PRAIRIE THicket SAVANNAH WOODLAND PLANTATION

STAND DESCRIPTION:

LAYER: CANOPY HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)

1 CANOPY 2.3 1 GRAPEV

2 SUB-CANOPY 4.5 4 SPICOPA CORNACEA 7 CORSTEL = RUBIDGE

3 UNDERSTOREY 6.7 4 CAREX SP 4 STER SP 7 SELING = INDIAN LAMP

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

CVR CODES: 1=0%<CVR<10% 2=10<CVR<25% 3=25<CVR<50% 4=CVR>60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS: BA: 25-50

STANDING SNAGS: 25-50

DEADFALL/LOGS: 25-50

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

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

SOIL ANALYSIS:

TEXTURE: g=

MOISTURE: g=

HOMOGENEOUS / VARIABLE DEPTH TO MOTTLES/GLEY: g=

DEPTH TO ORGANICS: g=

DEPTH TO BEDROCK: g=

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: SWFT 2-6

COMMUNITY SERIES: SWFT 2-6

ECOSITE: SWFT 2-6

VEGETATION TYPE: MINERAL THicket SWAMP

INCLUSION: SWFT 2-6

COMPLEX: SWFT 2-6

Evidence of Disturbance / Notes: MANY DEAD SPICOPA

ELC
 SITE: TILE 5 - WEST OF SOZ
 POLYGON: 13-6
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): J. Leslie

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

LAYER 1 2 3 4

SPECIES CODE: GRAPEV R R R R

SPECIES CODE: SPICOP CORST CORST CORST CORST

SPECIES CODE: CAREX STER STER STER STER

SPECIES CODE: INDIA INDIA INDIA INDIA INDIA

SPECIES CODE: ASTER ASTER ASTER ASTER ASTER

SPECIES CODE: TRUB TRUB TRUB TRUB TRUB

SPECIES CODE: LYC LYC LYC LYC LYC

LAYER 1 2 3 4

SPECIES CODE: GRAPEV R R R R

SPECIES CODE: SPICOP CORST CORST CORST CORST

SPECIES CODE: CAREX STER STER STER STER

SPECIES CODE: INDIA INDIA INDIA INDIA INDIA

SPECIES CODE: ASTER ASTER ASTER ASTER ASTER

SPECIES CODE: TRUB TRUB TRUB TRUB TRUB

SPECIES CODE: LYC LYC LYC LYC LYC

LAYER 1 2 3 4

SPECIES CODE: GRAPEV R R R R

SPECIES CODE: SPICOP CORST CORST CORST CORST

SPECIES CODE: CAREX STER STER STER STER

SPECIES CODE: INDIA INDIA INDIA INDIA INDIA

SPECIES CODE: ASTER ASTER ASTER ASTER ASTER

SPECIES CODE: TRUB TRUB TRUB TRUB TRUB

SPECIES CODE: LYC LYC LYC LYC LYC

LAYER 1 2 3 4

SPECIES CODE: GRAPEV R R R R

SPECIES CODE: SPICOP CORST CORST CORST CORST

SPECIES CODE: CAREX STER STER STER STER

SPECIES CODE: INDIA INDIA INDIA INDIA INDIA

SPECIES CODE: ASTER ASTER ASTER ASTER ASTER

SPECIES CODE: TRUB TRUB TRUB TRUB TRUB

SPECIES CODE: LYC LYC LYC LYC LYC

LAYER 1 2 3 4

SPECIES CODE: GRAPEV R R R R

SPECIES CODE: SPICOP CORST CORST CORST CORST

SPECIES CODE: CAREX STER STER STER STER

SPECIES CODE: INDIA INDIA INDIA INDIA INDIA

SPECIES CODE: ASTER ASTER ASTER ASTER ASTER

SPECIES CODE: TRUB TRUB TRUB TRUB TRUB

SPECIES CODE: LYC LYC LYC LYC LYC

Quality Control: This form is complete & legible .
 Signature: [Signature] (Field Personnel)
 Signature: [Signature] (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Ambewot Island

Date: Aug. 18, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>1-2</u>	<u>Haze</u>	<u>0</u>	<u>0</u>

ELC Polygon: # 136 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in trees]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

Y = yes, N = no, U = uncertain, P = partial, V = vernal, S = seep, R = road, W = water, D = ditch, C = culvert, B = bridge, F = fence, L = log, S = shrub, T = tree, O = other, M = map, I = indicate on map, * = if yes, describe in table below

ELC SITE: *Ambassador Island* POLYGON: *13-5* DATE: *Aug 18-11* UTMZ: UTMN: *13-5*
 SURVEYOR(S): *J. Leslie* UTMZ: UTMN:
 START: END: UTMZ: UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	3	<i>Fraxinus > Acer tree</i>
2 SUB-CANOPY	3	3	<i>Fraxinus > Acer tree</i>
3 UNDERSTOREY	4	4	<i>Fraxinus > Acer tree = Corallia > Scadox</i>
4 GRD. LAYER	5-7	4	<i>Calyx spp > Phragmites > grass</i>

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<50% 4=50<CVR<60%

STAND COMPOSITION: BA:

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

SOIL ANALYSIS:

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: SWD2-2
 COMMUNITY SERIES: CODE: SWD2-2
 ECOSITE: CODE: SWD2-2
 VEGETATION TYPE: GRD ASH MINERAL DECID. SWAMP
 INCLUSION: CODE: SWD2-2
 COMPLEX: CODE: SWD2-2

Evidence of Disturbance / Notes: CAROPY DENSITY / MATURITY - SOIL MOIST - SEVERE DOMINATED GRD LAYER (SP. W/O FRUIT/SEED) - CAROPY DENSITY VARIES

TILE 5 - NORTH of SO2

ELC SITE: POLYGON:
 COMMUNITY DESCRIPTION & DATE:
 CLASSIFICATION SURVEYOR(S):

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
<i>FRAXINUS</i>	R	A	A	R	R-A
<i>ACER</i>	R	R	R	R	R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R-A
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
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<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R
<i>FRAXINUS</i>					R

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
<i>SALIX</i>	R	R	R	R	R-O
<i>FRAXINUS</i>					R-O
<i>FRAXINUS</i>					R-O
<i>FRAXINUS</i>					R-O

Page ___ of ___
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)

Quality Control: This form is complete & legible



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: Aug 8, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>1-2</u>	<u>Haze</u>	<u>0</u>	<u>0</u>

ELC Polygon: #3-5 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: AI

Date: AUG 18 - 11

Field Personnel: JR

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	22	1-2	HAZE	Ø	Ø

ELC Polygon: #1410 Assessment Type: Visual; no access / Walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SF=other sign; TK=track; VO=vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 18, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>1-2</u>	CLOUD: <u>Hazy</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	---------------------	-----------------------	------------------	-----------------------------------

ELC Polygon: # 1413 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- GRAY - 2
- MOLF - 2

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 5, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	27	2	10%	Ø	Ø

ELC Polygon: #2-10 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features:

Contains potential reptile hibernacula features?

-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?

-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED

UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features:

Contains potential bat roosting features?

-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED

UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests:

Contains large stick nests?

-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED

UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

Seeps/Springs/Vernal Pools:

Contains seeps/springs/vernal pools?

-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED

UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- MANY SNAGS, NONE SUITABLE FOR ROOSTING

CV=cavass; DP=distinctive print; EP=feeding evidence; EY=eggs/nest; HQ=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO= vocalization

ELC
 SITE: Amberst Island
 POLYGON: 17-9
 COMMUNITY DESCRIPTION & CLASSIFICATION: J.leslie
 DATE: Aug. 5, 2011
 SURVEYOR(S): J.leslie
 END: _____
 UTME: _____
 UTMIN: _____
 UTMZ: _____

ELC
 SITE: Amberst Island
 POLYGON: 17-9
 COMMUNITY DESCRIPTION & CLASSIFICATION: J.leslie
 DATE: Aug. 5, 2011
 SURVEYOR(S): J.leslie
 END: _____
 UTME: _____
 UTMIN: _____
 UTMZ: _____

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	CRABAPPLE
2 SUB-CANOPY			
3 UNDERSTOREY	4	2	SLALBA > SPALBA
4 GRD. LAYER	5-7	4	ASPLBA > PACSAO > SPALBA

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<50% 4=50<CVR<60%

STAND COMPOSITION:

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

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES/GLEY	g=
MOISTURE:	DEPTH OF ORGANICS:	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
<u>Fern Ash Lowland Decid. Forest</u>	<u>FOD7-2</u>
INCLUSION	CODE: <u>SWD3.3</u>
COMPLEX	CODE:

STAND COMPOSITION:

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

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES/GLEY	g=
MOISTURE:	DEPTH OF ORGANICS:	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
<u>Fern Ash Lowland Decid. Forest</u>	<u>FOD7-2</u>
INCLUSION	CODE: <u>SWD3.3</u>
COMPLEX	CODE:



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Ambeawtisland

Date: Aug 5, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	27	2	10%	0	0

ELC Polygon: #12-9 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; EY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILE 5 - SOUTH of S19

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: POLYGON: 14-14
 SURVEYOR(S): DATE: Aug 18-11
 START: END: UTMZ: UTMN:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	23	1	Poplar
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	4-7	4	PHALARIS >> SOLICAPS SPP >> SYMPTERM

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:

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

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLEY: g=
 DEPTH OF ORGANICS: (cm)
 DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:
 COMMUNITY SERIES: CODE:
 ECOSITE: CODE:
 VEGETATION TYPE: CODE: MAM-2
 RES/ CANOPY MINERAL MEDIUM MARSH
 INCLUSION CODE:
 COMPLEX CODE:

Evidence of Disturbance / Notes:
 - EAST AND WEST OF THIS ARE TOO HEAVILY CRATED FOR REINVESTING
 - GRATED (MODERATE)
 - NO H2O OBS.

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: POLYGON:
 DATE: SURVEYOR(S):

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			

STAND COMPOSITION:

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

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLEY: g=
 DEPTH OF ORGANICS: (cm)
 DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:
 COMMUNITY SERIES: CODE:
 ECOSITE: CODE:
 VEGETATION TYPE: CODE: MAM-2
 RES/ CANOPY MINERAL MEDIUM MARSH
 INCLUSION CODE:
 COMPLEX CODE:

Evidence of Disturbance / Notes:
 - EAST AND WEST OF THIS ARE TOO HEAVILY CRATED FOR REINVESTING
 - GRATED (MODERATE)
 - NO H2O OBS.

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
SPALD					
PHALARIS					
SOLICAPS					
SYMPTERM					
CAREX SPP.					
SCIRPUS					

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
SPALD					
PHALARIS					
SOLICAPS					
SYMPTERM					
CAREX SPP.					
SCIRPUS					

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
SPALD					
PHALARIS					
SOLICAPS					
SYMPTERM					
CAREX SPP.					
SCIRPUS					

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
SPALD					
PHALARIS					
SOLICAPS					
SYMPTERM					
CAREX SPP.					
SCIRPUS					

Page ___ of ___
 Signature: (Field Personnel)
 Signature: (Project Manager)

Quality Control: This form is complete & legible
 Signature: (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595
 Date: AUG 18-11

Project Name: Amheust Island
 Field Personnel: JLeslie

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>1-2</u>	CLOUD: <u>HAZE</u>	PPT: <u>∅</u>	PPT (in last 24 hrs): <u>∅</u>
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ELC Polygon: #14-14 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature
 Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=cavass; DP=disturbance point; EB=feeding evidence; EY=eggshells; HO=hothouse; OB=observed; SC=seat; SI=other sign; TB=track; VC=vegetation

TILE 3 - FRONT RD - MARSHALL 40' RD EAST TO LOWER 40' RD.

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Ambrosia Island POLYGON: 15-3

SURVEYOR(S): NR DATE: July 28, 2011 UTME: _____

START: _____ END: _____ UTMZ: _____ 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"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<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"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD. <input type="checkbox"/> GRAMINOID <input checked="" 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 checked="" 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

STAND DESCRIPTION:

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

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<50% 4=50<CVR<60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS: BA: _____

0	<10	R	10-24	N	25-50	N	>50
R	<10	R	10-24	N	25-50	N	>50
N	<10	R	10-24	N	25-50	N	>50

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

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

SOIL ANALYSIS:

TEXTURE: _____ g= _____

MOISTURE: _____ g= _____

HOMOGENEOUS / VARIABLE DEPTH TO MOTTLES/GLEY: _____

DEPTH OF ORGANICS: _____ (cm)

DEPTH TO BEDROCK: _____ (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____ CODE: _____

COMMUNITY SERIES: _____ CODE: _____

ECOSITE: _____ CODE: _____

VEGETATION TYPE: OLD FIELD MIDDLE CUMBA MEADOW CODE: CUMBI

INCLUSION CODE: _____

COMPLEX CODE: _____

Evidence of Disturbance / Notes:



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: July 28, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>2</u>	CLOUD: <u>70%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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ELC Polygon: # 153 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Ambush Island POLYGON: 15-13

SURVEYOR(S): J. Josic DATE: 2014 28 11 UTM:

START: 12:02 END: 12:30 pm UTMZ:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE
1 CANOPY	2	1	<i>Ficus sp.</i> = 100% = 4 m dbh
2 SUB-CANOPY			
3 UNDERSTOREY	3	3	<i>Croton sp.</i> = 20% = 1 m dbh
4 GRD. LAYER	4-7	4	<i>Poa sp.</i> = 20% = 1 m dbh

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<50% 4=50-<CVR<60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS: 0 <10 9 10-24 14 25-50 11 >50

STANDING SNAGS: 0 <10 1 10-24 1 25-50 1 >50

DEADFALL/LOGS: 0 <10 1 10-24 1 25-50 1 >50

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

COMM. AGE: 0 PIONEER 0 YOUNG 0 MID-AGE 1 MATURE 1 OLD GROWTH

SOIL ANALYSIS:

TEXTURE: g

DEPTH TO MOTTLES/GLEY: g

MOISTURE: g

DEPTH OF ORGANICS: g

HOMOGENEOUS / VARIABLE: g

DEPTH TO BEDROCK: g

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: HAWAIIAN CULTURAL SAVANNAH

COMMUNITY SERIES: CUS 1-1

ECOSITE: CUS 1-1

VEGETATION TYPE: HAWAIIAN CULTURAL SAVANNAH

INCLUSION: CUS 1-1

COMPLEX: CUS 1-1

Evidence of Disturbance / Notes:

WOODY COVER ~ 25-30%
 01.11.14
 NO ACCESS

TILE 3 - FRONT RD
 - MARSHALL RD EAST TO LOWER 40' RD

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SURVEYOR(S): J. Josic DATE: 2014 28 11 UTM:

START: 12:02 END: 12:30 pm UTMZ:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
SCAPED	R	R	R	R	
PLUSEP	R	R	R	R	
ULM PUBL	R	R	R	R	
DAUCALO					
LOW CARP					
TALL AULE					
POA BEAT					
VIC RAL					
BEL MINSIE					
V. BUGLOSS					
BED RUM					

Quality Control: This form is complete & legible

Signature: [Signature] (Field Personnel)

Signature: [Signature] (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: July 28, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>2</u>	CLOUD: <u>70%</u>	PPT: <u>∅</u>	PPT (in last 24 hrs): <u>∅</u>
---------------------	-------------------------	-------------------	----------------------	------------------	-----------------------------------

ELC Polygon: #15-13 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*) - NO ACCESS

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FB=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: July 28, 2011

Field Personnel: J. Leolie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>26</u>	<u>2</u>	<u>70%</u>	<u>Ø</u>	<u>Ø</u>

ELC Polygon: # 15-6 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- INCUBATED DRY/MESIC DRAIN (MAN-MADE CHANNEL)
 - GRCA - VO

CA=carcass; DP=(distinctive parts); FE=feeding evidence; EY=eggs/nest; HO=house/den; OB=observed; SC=seat; SI=other sign; TK=track; VO=vocalization

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Stantec

Project Number: 160960595
 Date: Aug 15, 2012

Project Name: Amherst
 Field Personnel: Katherine S

Weather Conditions: TEMP (°C): _____ WIND: _____ CLOUD: _____ PPT: _____ PPT (in last 24 hrs): _____

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

POLYGON: Cuwl-3*

START TIME: _____
 END TIME: _____

POLYGON DESCRIPTION

TOPOGRAPHIC FEATURE	HISTORY
<input type="checkbox"/> LACUSTRINE	<input type="checkbox"/> TALUS
<input type="checkbox"/> RIVERINE	<input type="checkbox"/> CREVICE / CAVE
<input type="checkbox"/> BOTTOMLAND	<input type="checkbox"/> ALVAR
<input type="checkbox"/> TERRACE	<input type="checkbox"/> ROCKLAND
<input type="checkbox"/> VALLEY SLOPE	<input type="checkbox"/> BEACH / BAR
<input type="checkbox"/> TABLELAND	<input type="checkbox"/> SAND DUNE
<input type="checkbox"/> ROLL UPLAND	<input type="checkbox"/> BLUFF
<input type="checkbox"/> CLIFF	

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	3	Black walnut Sugar maple
2 SUB-CANOPY	3	2	Staghorn sumac Riverbank grape
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1=>25m 2=10<HT<25m 3=2<HT<10m 4=1<HT<5m 5=0.5<HT<1m 6=0.2<HT<0.5m 7=HT<0.2m
 0=NONE 1=0%<CVR<10% 2=10<CVR<25% 3=25<CVR<50% 4=CVR>50% NIO=not observed

STANDING SNAGS: N/P <10 N/P 10 - 24 N/P 25 - 50 N/P >50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT NIO=Not observed

STAND MATURITY: YOUNG PIONEER MATURE MID-AGE OLD GROWTH

VEGETATION TYPE: Dry-fresh Black walnut broadleaved Woodland CODE: Cuwl-3*

COMPLEX CODE: _____

Evidence of Disturbance / Notes:

Signature: Katherine S (Field Personnel)
 Signature: _____ (Project Manager)

TILE 3 - FRONT RD.
 - SMALL 40' RD EAST TO WAINW 40' RD.

LAYERS: 1=CANOPY >10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT NIO=Not observed

SPECIES CODE	LAYER				DISTANCE FROM RD.	COLL.
	1	2	3	4		
TREES:					>5 m	
Black walnut	A					
Sugar maple	R					
SHRUBS:						
Staghorn sumac						
Riverbank grape						
GROUND:						

ELC Polygon: # CW1-3 Assessment Type: Visual; no access / Walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 Y* / N / Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 Y* / N / Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 Y* / N / Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst island

Date: Aug 5, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20°C</u>	<u>1</u>	<u>5%</u>	<u>0</u>	<u>0</u>

ELC Polygon: #4-3 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=disturbance points; FE=feeding evidence; FN=eggs/nest; HO=household; OB=observed; SL=seal; S=other sign; TR=track; VO=vocalization

TILE 4 - SOY WEST TO EMERALD 40' RO.
2nd CONCESSION RP

ELC		SITE: A.I.	POLYGON: TILE 4
COMMUNITY DESCRIPTION & CLASSIFICATION		SURVEYOR(S): SR	DATE: AUG 4-11
		START: END:	UTM: UTMM:

ELC		SITE:
COMMUNITY DESCRIPTION & CLASSIFICATION		POLYGON:
		DATE:
SURVEYOR(S):		

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 checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN. <input type="checkbox"/> ACIDIC BEDR. <input type="checkbox"/> BASIC BEDR. <input type="checkbox"/> CARB. BEDR. <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<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"/> TALLUS <input type="checkbox"/> GREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL <input type="checkbox"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> STREET	<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 checked="" 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 checked="" type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
EMERALD					
TILMOR	N/A				
WILMOR					
SHAG HICK					
ACE FRSE					
COBBACE					

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	1-2	4	
2 SUB-CANOPY	3	3	
3 UNDERSTOREY	4	3-4	N/A - NO ACCESS
4 GRD. LAYER	5-7	4	N/A - ROAD VIEW

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<50% 4=CVR>50%

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
EMERALD					
TILMOR	N/A				
WILMOR					
SHAG HICK					
ACE FRSE					
COBBACE					

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	0	<10	A	10-24	O	A	25-50	M	>50
STANDING SNAGS:			M	10-24	R		25-50	N	>50
DEADFALL/LOGS:			0	10-24	R		25-50	M	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SIZE CLASS ANALYSIS:	0	<10	A	10-24	O	A	25-50	M	>50
STANDING SNAGS:			M	10-24	R		25-50	N	>50
DEADFALL/LOGS:			0	10-24	R		25-50	M	>50

SOIL ANALYSIS:

TEXTURE: DEPTH TO MOTTLES/GLEY g= G=

MOISTURE: DEPTH OF ORGANICS: (cm)

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: F0D9

COMMUNITY SERIES: CODE:

ECOSITE: CODE: F0D9

VEGETATION TYPE: F0D9

EM OAK - MAPLE - HICKORY DECID.

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

Evidence of Disturbance / Notes:

INCLUSION CODE: FOREST

COMPLEX CODE:

- ROADSIDE ASSESSMENT - NO ACCESS

Page ___ of ___

Signature: [Signature] (Field Personnel)

Signature: [Signature] (Project Manager)

Quality Control: This form is complete & legible



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: AI

Date: AUG 4-11

Field Personnel: JTL

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	22	3	40%	f	RAIN

ELC Polygon: # 4 Assessment Type: Visual; no access / Walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 -Y* / -N / Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
 -Y* / -N / Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 -Y* / -N / Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 -Y* / -N / Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 -Y* / -N / Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

TILE 4 - 504 WEST TO EMERALD 40' RD.
 - ALONG 2ND CONCESSION RD

SITE: Amberst Island (Tile 7 of 17)
 POLYGON: H
 SURVEYOR(S): M. Ross
 DATE: Aug 4/11
 SURVEYOR(S): Matthew Ross

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

LAYERS: 1=CANOPY > 10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Red Canary Grass					A
Scirpus cypripus					O
Blue verticillata					O
Grass leaved Goldenrod					R-O
Hedge bindweed					

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Amberst Island (Tile 7 of 17)
 POLYGON: H
 SURVEYOR(S): M. Ross
 DATE: Aug 4/11
 SURVEYOR(S): Matthew Ross

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			Red Canary Grass >> Spirea alba > Scirpus cypripus

HT CODES: 1=>25m 2=10-<HT<25m 3=2-<HT<5m 4=1-<HT<2m 5=0.5-<HT<5m 6=0.2-<HT<5m 7=HT<0.2m
 CVR CODES: 0=NONE 1=0%<CVR<10% 2=10-<CVR<25% 3=25-<CVR<50% 4=50%<CVR<60%

STAND COMPOSITION: N/A BA: N/A

SIZE CLASS ANALYSIS:

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

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

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

SOIL ANALYSIS:

DEPTH TO MOTTLES/GLEY: g=

DEPTH OF ORGANICS: (cm) G=

DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE:

COMMUNITY SERIES: CODE:

ECOSITE: CODE:

VEGETATION TYPE: Red Canary Grass meadow woods CODE: MAM 2-2

INCLUSION CODE:

COMPLEX CODE:

Evidence of Disturbance / Notes:

-COPY APPLIES TO BOTH MAM 2-2 AND MAM 2-2/PAS



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: Aug 4/11

Field Personnel: Matthew Ross

Weather Conditions:	TEMP (°C): <u>19-26</u>	WIND: <u>3-4</u>	CLOUD: <u>0-30%</u>	PPT: <u>None</u>	PPT (in last 24 hrs): <u>Rain</u>
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ELC Polygon: # _____ Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

BARS
 SWSP

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILE 4 - S04 WEST TO EMERALD 40' RD.
 TILE 4 - ALONG 2ND CONCESSION RD.

ELC
 SITE: POLYGON: 4-1
 COMMUNITY DESCRIPTION & CLASSIFICATION: SURVEYOR(S):
 DATE: AUG 5-11
 UTME: UTMN:
 END: UTMZ:

LAYERS: 1=CANOPY > 10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
NXVIRG					TRORAL					
KLABER					HYP BERG					
ACESASA					GRVIRG					
TILAMER					DAV CARO					
					PIL PRAG					
					RS VINE					
					REP CLAVEL					
					CLVIRG					
					POSSIMP					
					MOSS					

Quality Control: This form is complete & legible
 Signature: [Signature]
 Page ___ of ___
 Signature: [Signature] (Field Personnel)
 (Project Manager: [Signature])

ELC
 SITE: Ambient Island
 SURVEYOR(S): END: POLYGON: 4-1
 DATE: AUG 5-11
 UTME: UTMN:
 END: UTMZ:

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	3	GRABER = SUB VIRG > ACESASA
2 SUB-CANOPY			
3 UNDERSTOREY	3-4	4	LILAC > XANAMER
4 GRD. LAYER	5-7	3	Tough = Hypert = Flawing = Paddio

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

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

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES/GLEY	g=	G=

DEPTH OF ORGANICS: (cm)
 DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	CUW1-3
INCLUSION	
COMPLEX	

Evidence of Disturbance / Notes: - DENSE LILAC UNDERSTOREY - OCCASIONAL PREGNANTS AX CANOPY



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amheust island

Date: Aug 5, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20°C</u>	<u>1</u>	<u>50%</u>	<u>∅</u>	<u>∅</u>

ELC Polygon: # 4 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- GRCA - VO
 - MODO - OB

CA=circus; DP=distinctive parts; FE=feeding evidence; FN=egg/nest; HO=house/oven; OB=olfactory; SC=scar; SI=other sign; TK=track; VO=visualization

TILE 4 - 504 EAST TO 531 (TILE 2)

2nd CONCESSION RD

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Amherst Island (Tile 2 of 17) POLYGON: B

SURVEYOR(S): Matthew Ross DATE: Aug 3/11 UTMZ: UTMN:

START: END: UTMZ: 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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED	<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"/> DECIUOUS <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 checked="" type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (->MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	Gr. Ash >> Acer frc
2 SUB-CANOPY	3	3	Gr. Ash >> AM. Elm >> Acer frc
3 UNDERSTOREY	4	1	Gr. Ash >> Am. Elm
4 GRD. LAYER	7.5	4	Poa sp >> Poa sp >> Galium sp >> Fox seduc

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<50% 4=CVR>60%

STAND COMPOSITION: Gr. Ash >> Acer frc

SIZE CLASS ANALYSIS:	A	10-24	R	25-50	M	>50
STANDING SNAGS:						
DEADFALL/LOGS:						

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

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

SOIL ANALYSIS:

TEXTURE: Clay DEPTH TO MOTTLES/GLEY: 9=20cm G=5.5(1.40)

MOISTURE: DEPTH OF ORGANICS: (cm)

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: CODE: SND 22

COMMUNITY SERIES: CODE:

ECOSITE: CODE:

VEGETATION TYPE: Gr. Ash MINOR DECID. SWAMP

INCLUSION: CODE:

COMPLEX: CODE:

Evidence of Disturbance / Notes: a little more...

ELC

COMMUNITY DESCRIPTION & CLASSIFICATION

POLYGON DESCRIPTION

STAND DESCRIPTION:

STAND COMPOSITION:

SOIL ANALYSIS:

COMMUNITY CLASSIFICATION:

Evidence of Disturbance / Notes:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
Gr. Ash	A	A	O	O	Poa sp					
AM. Elm	O	R	R	R	Gr. Ash					
Acer frc					AM. Elm					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
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					AM. Elm					
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					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
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					AM. Elm					
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					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
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					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
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					AM. Elm					
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					AM. Elm					
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					AM. Elm					
					Poa sp					
					Gr. Ash					
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					AM. Elm					
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					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					
					Poa sp					
					Gr. Ash					
					AM. Elm					
					Acer frc					
					Gr. Ash					
					AM. Elm					



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 Fax: (519) 836-2493

Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: A.I.

Date: Aug 3-11

Field Personnel: JN

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22°C</u>	<u>3</u>	<u>90%</u>	<u>Ø</u>	<u>RAIN EARLIER</u>

ELC Polygon: # 2-11 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=canal; GP=grout pipe; IB=feeding evidence; IN=egg/nest; HO=hoard; OB=observed; SC=seal; S=other sign; TK=track; VO=voicification

TILE 4 - 2nd concession no. - 504 EAST TO 531

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION
 SURVEYOR(S): J. Leslic
 DATE: AUG 19-11
 POLYGON: 8-11
 UTME: []
 UTMN: []

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
SA 541					ASC 541					R-O
0.5 m x 0.5 m					Brown					O
					AC 100					O
					DAUCAPA					R-O
					DEP-GIGA					O
					PHI PLAN					R
					VE CLAC					O
					SC1 CAPS					R
					PHI PLAN					DA
					PHI PLAN					R-O
					LEC 08.12					R
					CAI SP					O

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION
 SURVEYOR(S): J. Leslic
 DATE: AUG 19-11
 POLYGON: 8-11
 UTME: []
 UTMN: []

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
SA 541					ASC 541					R-O
0.5 m x 0.5 m					Brown					O
					AC 100					O
					DAUCAPA					R-O
					DEP-GIGA					O
					PHI PLAN					R
					VE CLAC					O
					SC1 CAPS					R
					PHI PLAN					DA
					PHI PLAN					R-O
					LEC 08.12					R
					CAI SP					O

Quality Control This form is complete & legible
 Signature: [] (Field Personnel)
 Signature: [] (Project Manager)

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION
 SURVEYOR(S): J. Leslic
 DATE: AUG 19-11
 POLYGON: 8-11
 UTME: []
 UTMN: []

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
SA 541					ASC 541					R-O
0.5 m x 0.5 m					Brown					O
					AC 100					O
					DAUCAPA					R-O
					DEP-GIGA					O
					PHI PLAN					R
					VE CLAC					O
					SC1 CAPS					R
					PHI PLAN					DA
					PHI PLAN					R-O
					LEC 08.12					R
					CAI SP					O

Quality Control This form is complete & legible
 Signature: [] (Field Personnel)
 Signature: [] (Project Manager)



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 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 19, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>25</u>	WIND: <u>1-2</u>	CLOUD: <u>5%</u>	PPT: <u>Ø</u>	PPT (in last 24 hrs): <u>Ø</u>
---------------------	-------------------------	---------------------	---------------------	------------------	-----------------------------------

ELC Polygon: #8-11 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows))
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. karst topography, abandoned mines or caves)

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree)

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

Can. env. & Nat. Heritage Dept. / Environnement Canada, 1998. Adapted from the Ontario Ministry of Natural Resources, 1998. Adapted from the Ontario Ministry of Natural Resources, 1998.

TILE 4 - 2nd concession RP.
EMERALD 40' RO WEST TO S17

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION
 SITE: 2 Conc + Emerald 40 POLYGON: C071-4
 SURVEYOR(S): [Handwritten] DATE: 11/11/11 UTMZ: [Blank]
 START: [Blank] END: [Blank] UTMZ: [Blank]

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"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<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"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<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"/> 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"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREE	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD. <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			G. [Handwritten]
2 SUB-CANOPY			G. [Handwritten]
3 UNDERSTOREY			G. [Handwritten]
4 GRD. LAYER			G. [Handwritten]

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<50% 4=CVR>50%

STAND COMPOSITION: [Handwritten]

SIZE CLASS ANALYSIS:	<10	A	10 - 24	R	25 - 50	N	>50
STANDING SNAGS:	<10	R	10 - 24	N	25 - 50	N	>50
DEADFALL/LOGS:	<10		10 - 24		25 - 50		>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

SOIL ANALYSIS: [Handwritten]

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE: C07
COMMUNITY SERIES:	CODE: C07
ECOSITE:	CODE: C071
VEGETATION TYPE:	CODE: C07
INCLUSION	CODE: [Blank]
COMPLEX	CODE: [Blank]

Evidence of Disturbance / Notes: [Handwritten]

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
G. [Handwritten]										
G. [Handwritten]										
S. [Handwritten]										
M. [Handwritten]										
C. [Handwritten]										
O. [Handwritten]										

Page 1 of 1
 Signature: [Handwritten] (Field Personnel)
 Signature: [Handwritten] (Project Manager)
 Quality Control: This form is complete & legible



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 1 – 70 Southgate Drive
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 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595
 Date: 11/11/11

Project Name: Amherst
 Field Personnel: Monsell

Weather Conditions:	TEMP (°C): <u>1</u>	WIND: <u>NW 10km/hr</u>	CLOUD: <u>60%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	------------------------	----------------------------	----------------------	------------------	-----------------------------------

ELC Polygon: # Cut-4 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- no access.

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

TILEY - 2nd CONCESSION AREA
 - EMERALD 40 RD WEST TO 817

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

POLYGON: 2-9
 DATE: AUG 4-11
 UTME: _____
 UTMIN: _____

POLYGON: _____
 DATE: _____
 UTMZ: _____

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"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<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"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<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 checked="" type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (->MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY	3	4	XAN AMER 77 JUL VILG
4 GRD. LAYER	4-7	4	PHILPAC - DAV C ARE - AGLASAL

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≤50% 4=CVR>50%

STAND COMPOSITION:

SIZE CLASS ANALYSIS: <10 10-24 25-50 >50

STANDING SNAGS: <10 10-24 25-50 >50

DEADFALL/LOGS: <10 10-24 25-50 >50

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

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

SOIL ANALYSIS:

TEXTURE: SIC

MOISTURE: _____

HOMOGENEOUS/VARIABLE: _____

DEPTH TO MOTTLES/GLEY: 9= NONE G= NAME

DEPTH OF ORGANICS: _____ (cm)

DEPTH TO BEDROCK: 250cm (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____

COMMUNITY SERIES: _____

ECOSITE: _____

VEGETATION TYPE: TICKLY ASH CURVULA THICKET CUT 1-7*

INCLUSION: _____

COMPLEX: _____

Evidence of Disturbance / Notes: PIC 1 DPH 2012

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER			
	1	2	3	4		1	2	3	4
JUL VILG					DAV CAN				
ULM P-30R					PAL PLAM				
					SAL VILG				
					MED VILG				
					DAV CAN				
					AGLO SPOC				
					PHILPAC 31				
					VIL CRAC				
					RED CLAVEL				
					W. AVENS				
					PA AUBER				
					FAA VILG				
					CARE SP.				
					ARE CURVA				

Page ___ of ___
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)



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 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 60960595

Project Name: Amherst Island

Date: August 4, 2011

Field Personnel: J Leslie

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>1-2</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>Rain</u>
---------------------	-------------------------	---------------------	--------------------	------------------	--------------------------------------

ELC Polygon: # 2-9 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows))
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. karst topography, abandoned mines or caves)

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree)

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CN=carcass; DP=distinctive parts; H=feeding evidence; PN=egg/nest; (O)=observation; (O)=observed; SC=scar; S=other sign; TK=track; VO=vocalization



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 Fax: (519) 836-2493

Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amberst

Date: 11/11/11

Field Personnel: Mossell

Weather Conditions:	TEMP (°C): <u>1</u>	WIND: <u>NW 10km/hr</u>	CLOUD: <u>60%</u>	PPT: <u>Ø</u>	PPT (in last 24 hrs): <u>Ø</u>
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ELC Polygon: #CVM1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- no access

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SURVEYOR(S): JR POLYGON: 10-1
 DATE: AUG 18-11 UTMZ: _____
 UTMN: _____

START: _____ END: _____

POLYGON DESCRIPTION

SYSTEM: TERRESTRIAL WETLAND AQUATIC

SUBSTRATE: ORGANIC MINERAL SOIL PARENT MIN. ACIDIC BEDRK. BASIC BEDRK. CARB. BEDRK. OPEN WATER SHALLOW WATER SURFICIAL DEP. BEDROCK

TOPOGRAPHIC FEATURE: LACUSTRINE RIVERINE BOTTOMLAND TERRACE VALLEY SLOPE TABLELAND ROLL. UPLAND CLIFF TALUS CREVICE / CAVE ALVAR ROCKLAND BEACH / BAR SAND DUNE BLUFF

HISTORY: NATURAL CULTURAL

PLANT FORM: PLANKTON SUBMERGED FLOATING-LVD. GRAMINOID FORB LICHEN BRYOPHYTE DECIDUOUS CONIFEROUS MIXED

COMMUNITY: LAKE POND RIVER STREAM MARSH SWAMP FEN BOG BARREN MEADOW PRAIRIE THicket SAVANNAH WOODLAND FOREST PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	Fraxino > Acer fraxino > Ulmanen
2 SUB-CANOPY	3	4	Fraxino = Acer fraxino = Ulmanen
3 UNDERSTOREY	4.5	2	Acer fraxino = Fraxino = Ulmanen
4 GRD. LAYER	6.7	3	Gladiolus = Impatiens = Aster = J. Pulpit

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≤50% 4=CVR>60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:

<10	10-24	25-50	>50
0	A	0	M

STANDING SNAGS:

<10	10-24	25-50	>50
B	B	N	M

DEADFALL/LOGS:

<10	10-24	25-50	>50
0	0	N	M

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

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

SOIL ANALYSIS:

TEXTURE: _____

MOISTURE: _____

HOMOGENEOUS / VARIABLE: _____

DEPTH TO MOTTLES/GLEY: g= _____

DEPTH OF ORGANICS: _____ (cm)

DEPTH TO BEDROCK: _____ (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____ CODE: _____

COMMUNITY SERIES: _____ CODE: _____

ECOSITE: _____ CODE: _____

VEGETATION TYPE: GLD A/H MINERAL P.S.C. SWAMP CODE: SNDZ22

INCLUSION: _____ CODE: _____

COMPLEX: _____ CODE: _____

Evidence of Disturbance / Notes: - SURFACE POOLING LIMITED TO DITCH WORK AD
SPARSE VEGETATION (~30-40%)

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: THE 2 - 2ND CONCESSION AD. - SOUTH SIDE WEST POLYGON
 POLYGON: _____
 DATE: _____

CLASSIFICATION SURVEYOR(S): _____

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
ACE FRAX	0	0	R		
FRAXINO	0	0	R		
ULMANEN	R	0	R		
GLADIOL					
IMPATIEN					
ASTER					
J. PULPIT					

Page _____ of _____

Quality Control: This form is complete & legible

Signature: _____ (Field Personnel)
 _____ (Project Manager)



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 Canada N1G 4P5
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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 18, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>2-3</u>	CLOUD: <u>40%</u>	PPT: <u>✓</u>	PPT (in last 24 hrs): <u>0</u>
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ELC Polygon: # 10-1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

*Y=Yes, N=No, U=Unknown, P=Partial, V=Visual, W=Walk through, R=Roadside, S=Seep, Sp=Spring, VP=Vernal Pool, H=Habitat, O=Observation

ELC SITE: AI POLYGON: 10-2

COMMUNITY DESCRIPTION & CLASSIFICATION: 5N SURVEYOR(S): Aug 18-11 UTMZ: UTM: UTMN:

CLASSIFICATION SURVEYOR(S):

ELC SITE: AI POLYGON: 10-2

COMMUNITY DESCRIPTION & CLASSIFICATION: 5N SURVEYOR(S): Aug 18-11 UTMZ: UTM: UTMN:

CLASSIFICATION SURVEYOR(S):

2nd concession rd.
- 531 access east to 506 access

LAYERS: 1=CANOPY > 10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
SPANN	A	O	O		
ULMAMEL	R	O	O		
TILAMEL	R	R	R		
ACEFRAG	R	R	R		
ASP LANC					
GLY STPL					
CIN ANGR					
HOA-ALC					
IMP CAP					
CAL SPIC					
PHANUS					
VIOLA SR					
CIC L-MS					
CAREX-BRASH					
CAREX OVAD					

POLYGON DESCRIPTION

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

STAND DESCRIPTION: SPECIES IN ORDER OF DECREASING DOMINANCE (>>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)

1 CANOPY 2 4
 2 SUB-CANOPY 3 3 *Fraxenn >>> UlmameL = thicket + Africa*
 3 UNDERSTOREY 4 3 *Fraxenn = UlmameL > thicket*
 4 GRD. LAYER 5-7 4 *Fraxenn > thicket = Spicobea*
 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≤50% 4=50<CVR≤60%

STAND COMPOSITION: BA:

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

SOIL ANALYSIS:

TEXTURE: g=

DEPTH TO MOTTLES/GLEY: g=

MOISTURE: (cm)

HOMOGENEOUS / VARIABLE: (cm)

COMMUNITY CLASSIFICATION:

CODE: 5072

CODE: 5072

CODE: 5072

CODE: 5072

INCLUSION: openland deciduous swamp.

COMPLEX: 5072

Evidence of Disturbance / Notes:

- SOIL MESSIC

- SURFACE POOLING LIMITED TO ROADSIDE DITCH

Quality Control: This form is complete & legible

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 18, 2011

Field Personnel: J. Leslic

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>2-3</u>	CLOUD: <u>40%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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ELC Polygon: # 16-2 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 -Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with crack/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
 -Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 -Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities >10cm high in trees]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities
<u>363516, 469072</u>	<u>A</u>	<u>OAK</u>	<u>25</u>	<u>21</u>		<u>1</u>	<u>ALTHOUGH THERE APPEARS TO BE A BEE'S NEST WITHIN, NEAR TOP.</u>

Stick Nests: Contains large stick nests?
 -Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 -Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

1 Feature confirmed to have no cavities present by JTL

Y=Accidental, DB=discovery points, F=foraging tracks, H=egg/ovest, I=Inhabitation, O=observed, P=plant species, R=road, S=substratum



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 18, 2011

Field Personnel: J. Lohie

Weather Conditions:	TEMP (°C): <u>26°</u>	WIND: <u>2-3</u>	CLOUD: <u>40%</u>	PPT: <u>☐</u>	PPT (in last 24 hrs): <u>☐</u>
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ELC Polygon: # _____ Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in trees]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- POTENTIAL AMPHIB BREEDING HABITAT

Y=Yes, N=No, U=Unknown, P=Potential, O=Observed, U=Unobserved, W=Water, S=Soil, V=Vegetation, DBH=Diameter, PPT=Precipitation, SPP=Species

TILE 2 - 2nd concession RO. - NORTH SIDE
 - 531 ACCESS EAST TO SOLO ACCESS

ELC SITE: AI POLYGON: 9-3

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): STZ DATE: AUG 2-11 UTME: _____

START: _____ END: _____ UTMZ: _____ UTMN: _____

ELC SITE: _____ POLYGON: _____

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): _____ DATE: _____

POLYGON DESCRIPTION

SYSTEM: TERRESTRIAL AQUATIC SITE

SUBSTRATE: ORGANIC MINERAL SOIL PARENT MIN. ACIDIC BEDRK. BASIC BEDRK. CARB. BEDRK.

TOPOGRAPHIC FEATURE: LACUSTRINE RIVERINE BOTTOMLAND TERRACE VALLEY SLOPE TABLELAND ROLL UPLAND CLIFF TALUS CREVICE / CAVE ALVAR ROCKLAND BEACH / BAR SAND DUNE BLUFF

HISTORY: NATURAL CULTURAL

PLANT FORM: PLANKTON SUBMERGED FLOATING-LVD. GRAMINOID FORB LICHEN BRYOPHYTE DECIDUOUS CONIFEROUS MIXED

COVER: OPEN SHRUB TREED

COMMUNITY: LAKE POND RIVER STREAM MARSH SWMAP FEN BOG BARREN MEADOW PRAIRIE THICKET SAVANNAH WOODLAND FOREST PLANTATION

LAYERS: 1=CANOPY >10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER			
	1	2	3	4		1	2	3	4
FRALP	D	D			GLY SML				
GRM	R	R			CA PAM				
					CA WLP				
					> 20% HT				
					IMP CAPP				
					AST. PANIC				
					W. AVECS				
					HA V. EL				
					CAE OUPES				
					RYANAR				

STAND DESCRIPTION:

LAYER: _____ HT: _____ CVR: _____

1 CANOPY 2 4 (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)

2 SUB-CANOPY 3 4 (GRASS > 70% PAM)

3 UNDERSTOREY 4 2 (GRASS)

4 GRD. LAYER 5-7 4 (GRASS > 60% SML > PAM)

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<50% 4=CVR>50%

STAND COMPOSITION: BA: _____

SIZE CLASS ANALYSIS: A <10 D 10-24 N 25-50 >50

STANDING SNAGS: R <10 R 10-24 N 25-50 >50

DEADFALL/LOGS: O <10 R 10-24 N 25-50 >50

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

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

SOIL ANALYSIS:

TEXTURE: _____ DEPTH TO MOTTLES/GLEY: g= _____ G= _____

MOISTURE: _____ DEPTH OF ORGANICS: _____ (cm)

HOMOGENEOUS / VARIABLE: _____ DEPTH TO BEDROCK: _____ (cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____ CODE: _____

COMMUNITY SERIES: _____ CODE: _____

ECOSITE: _____ CODE: _____

VEGETATION TYPE: green canopy mixed dec. Swamp CODE: S 10-2-2

INCLUSION: _____ CODE: _____

COMPLEX: _____ CODE: _____

Evidence of Disturbance / Notes: No H₂O

Page ____ of ____ Signature: _____ (Field Personnel)

Quality Control: This form is complete & legible Signature: _____ (Project Manager)



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 2, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	26	2-3	10%	Ø	Ø

ELC Polygon: #9-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CA=carcass; DP=distinctive pairs; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 16096059S

Project Name: Amherst island

Date: August 2, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26</u>	WIND: <u>2-3</u>	CLOUD: <u>10%</u>	PPT: <u>Ø</u>	PPT (in last 24 hrs): <u>Ø</u>
---------------------	-------------------------	---------------------	----------------------	------------------	-----------------------------------

ELC Polygon: #9-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows))

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. karst topography, abandoned mines or caves)

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree)

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

WETLAND 3a - NO PROPERTY ACCESS - MAINLY PHALARIS

WETLAND 3b - INTACT MAM2-2, 1/2 UNDISTURBED - PHALARIS DOM.

MAM2-2/PAS - NOT QUIET DUE TO HEAVY CATTLE TRAMPLING/KRAZING
- APPEARS TO HAVE LIKELY BEEN MAINLY PHALARIS
w/ SCIRPUS.
- INCLUDES POCKET OF YOUNG FRAXINUS

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



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Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: July 28, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26°</u>	WIND: <u>2</u>	CLOUD: <u>70%</u>	PPT: <u>∅</u>	PPT (in last 24 hrs): <u>∅</u>
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ELC Polygon: # 15-18 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map) - NO ACCESS

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

>50cm DBH DEAD TREE STAGE 2 DECOMP., ALTHOUGH NO CAVITIES AS HIGH AS 10M, SOME LOWER ONES ~10cm DBH (PIC #1)
18, 366705, 4893344

CA=carcass; DP=distinctive print; FB=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Ambient toad

Date: July 29, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>26°C</u>	WIND: <u>2</u>	CLOUD: <u>70%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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ELC Polygon: # 15-11 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map); ROADSIDE

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

CARDINAL OB

CA=carcass; DP=distinctive parts; FP=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

TILE 5 - STELLA HO. RD.
 - 3rd CONDESSION RD SOUTH TO 537 ACCESS

SITE: **ELC**
 POLYGON: _____
 DATE: _____
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): _____

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
FRAPERN	R									
					PHACUN					D
					AGP SIGA					R-O
					LYC UNIF					R-O
					VIC CRAC					R-O
					MYRTEN					O
					P. LODSEST					R
					SCICYPE					R

Page ___ of ___
 Signature: _____ (Field Personnel)
 Signature: _____ (Project Manager)
 Quality Control: This form is complete & legible

SITE: **ELC**
 SURVEYOR(S): _____ POLYGON: _____
 START: _____ DATE: **AUG 19-11** UTMZ: _____
 END: _____ UTMN: _____

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input checked="" 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 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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL COVER <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<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 checked="" type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2-3	2	FRAPERN
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	4-7	4	PHACUN 2, MYRTEN 2, AGP SIGA 2, LYC UNIF 2, VIC CRAC 2, SCICYPE 2

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<0.3m 7=HT<0.2m
 CVR CODES: 0=NONE 1=0%-<CVR<10% 2=10<CVR<25% 3=25<CVR<50% 4=CVR>50%

STAND COMPOSITION: BA: _____

SIZE CLASS ANALYSIS:

<10	10-24	25-50	>50
R	R	R	N

STANDING SNAGS:

<10	10-24	25-50	>50
R	R	R	R

DEADFALL/LOGS:

<10	10-24	25-50	>50
R	R	R	R

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

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

SOIL ANALYSIS:

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

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: _____
 COMMUNITY SERIES: _____
 ECOSITE: _____
 VEGETATION TYPE: **Red canopy grass meadow**
 INCLUSION: _____
 COMPLEX: _____

Evidence of Disturbance / Notes: _____
 - ASH EXISTS AS HR. (MAMU) ONLY; MAMU w/o woody species
 - ~10-15% tree cover



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amhurst Island

Date: August 19, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>1-2</u>	<u>☐</u>	<u>☐</u>	<u>☐</u>

ELC Polygon: #11-1 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows))

Contains potential bat hibernacula features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. karst topography, abandoned mines or caves)

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)
(i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree)

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 -Y* / -N / -Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

- NOLF

Legend: Y* = observed, N = not observed, U = unknown, DBH = diameter, PPT = precipitation, PPT (in last 24 hrs) = precipitation in last 24 hours, PPT (in last 24 hrs) = precipitation in last 24 hours, PPT (in last 24 hrs) = precipitation in last 24 hours



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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 18, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>1-2</u>	CLOUD: <u>haze</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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ELC Polygon: # L-1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature → FEW VISUAL RESTRICTIONS
 Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 -Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
 -Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 -Y* / -N / -Unknown, no access (*if yes, describe in table below)
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in trees]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Sp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 -Y* / -N / -Unknown, no access (*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Sp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 -Y* / -N / -Unknown, no access (*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)
 WETTEST ADJACENT TO ROAD AND AT LOWEST TOPOGRAPHICAL POSITION (WHOLE FEATURE IS LOW AREA BETWEEN SLOPES *map*)

CAUTION: DP=distinctive, poly.=polytrophic, prod.=producer, PY=egg/young, PO=short-term, W=observed, L=located with a log, D=6-8K, A=2-cyclical, S=...

TILE 5 - 300 CONCESSION AD SOUTH TO S37 ACCESS

SITE: **Stella 40' RD.**

POLYGON: **142**

DATE: **Aug 18-11**

UTMZ: **142**

UTME: **142**

UTMN: **142**

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
SALECA					
GEA SPOK					
GEA CANA					
MAUS SP					
ELV VIRG					
AST LAMC					
CIR LWRK					
AGR GRYP					
SEA VIRG					
DEAL-ALL					
VIOLA SP.					
BRO INUR					
POA PRAT					
DAU CAGO					
PHI ARUN					
ALL PLAC-ARUN					
CANEX SP.					
VER ANA-ABU					
PAR RECT					

1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
CON TMA					
CON RAG					
CON DAG					
CON TEGOS					

Quality Control: This form is complete & legible

Signature: *[Signature]* (Project Manager)

Signature: *[Signature]* (Field Personnel)

Page ___ of ___

DRAWN *[Signature]* H2O (WICH) (1-2m wide)

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

ELC
 COMMUNITY DESCRIPTION & CLASSIFICATION

POLYGON DESCRIPTION

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

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	3	Fraxinus
2 SUB-CANOPY	3-4		
3 UNDERSTOREY	5-7		
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<50% 4=50<CVR<60% 5=60<CVR<75% 6=75<CVR<85% 7=85<CVR<95% 8=95<CVR<100%

STAND COMPOSITION: BA: **MA22**

SIZE CLASS ANALYSIS: **0** <10 **0A** 10-24 **R** 25-50 **M** >50

STANDING SNAGS: **R** <10 **R** 10-24 **N** 25-50 **N** >50

DEADFALL LOGS: **R** <10 **R** 10-24 **N** 25-50 **N** >50

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

COMM. AGE: **0** PIONEER **0** YOUNG **0** MID-AGE **0** MATURE **0** OLD GROWTH

SOIL ANALYSIS: **0** DEPTH TO MOTTLES/GLEY **g=** DEPTH OF ORGANICS: **g=** DEPTH TO BEDROCK: **(cm)**

TEXTURE: **(cm)**

MOISTURE: **(cm)**

HOMOGENEOUS / VARIABLE

COMMUNITY CLASSIFICATION: **MA22**

COMMUNITY CLASS: **MA22**

COMMUNITY SERIES: **MA22**

ECOSITE: **MA22**

VEGETATION TYPE: **WETLAND**

INCLUSION: **WETLAND**

COMPLEX: **WETLAND**

Evidence of Disturbance / Notes: **WETLAND SPP CONTINUED TO PARLOW CHANNEL, WHICH CONTAINS H2O (WICH) (1-2m wide)**



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 Canada N1G 4P5
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Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: 160960595

Project Name: Amherst Island

Date: August 16, 2011

Field Personnel: J. Leslie

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>1-2</u>	CLOUD: <u>hazy</u>	PPT: <u>4</u>	PPT (in last 24 hrs): <u>0</u>
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ELC Polygon: # 142 Assessment Type: Visual; roadside, no access / Physical; walk through feature

Extent of Physical Investigation of Feature: Entire / Partial, walk through polygon (indicate on map)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
 Y* / N / Unknown, no access (**if yes, describe in table below*)
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?
 Y* / N / Unknown, no access (**if yes, describe in table below*)
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
 Y* / N / Unknown, no access (**if yes, describe in table below*)
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in trees]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
 Y* / N / Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
 Y* / N / Unknown, no access (**if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

Y = Yes, N = No, U = Unknown, * = if yes, describe in table below, DBH = diameter, H = height, S = species, L = logs, P = present, V = vernal, W = water, D = depth, T = type, S = size, F = feature, C = cavity, E = edge, O = observation, I = indicate, M = map



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 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Woodland & Wildlife Habitat Assessment Form

Stantec

Project Number: _____

Project Name: _____

Date: JULY 27-11

Field Personnel: JTR

Weather Conditions:	TEMP (°C): <u>25°C</u>	WIND: <u>2</u>	CLOUD: <u>20%</u>	PPT: <u>Ø</u>	PPT (in last 24 hrs): <u>Ø</u>
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ELC Polygon: # BARR's Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

Reptile / Bat Hibernacula Features: Contains potential reptile hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]
 Contains potential bat hibernacula features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

Bat Roosting Features: Contains potential bat roosting features?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

Stick Nests: Contains large stick nests?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

Seeps/Springs/Vernal Pools: Contains seeps/springs/vernal pools?
-Y* / -N / -Unknown, no access (**if yes, describe in table below*)

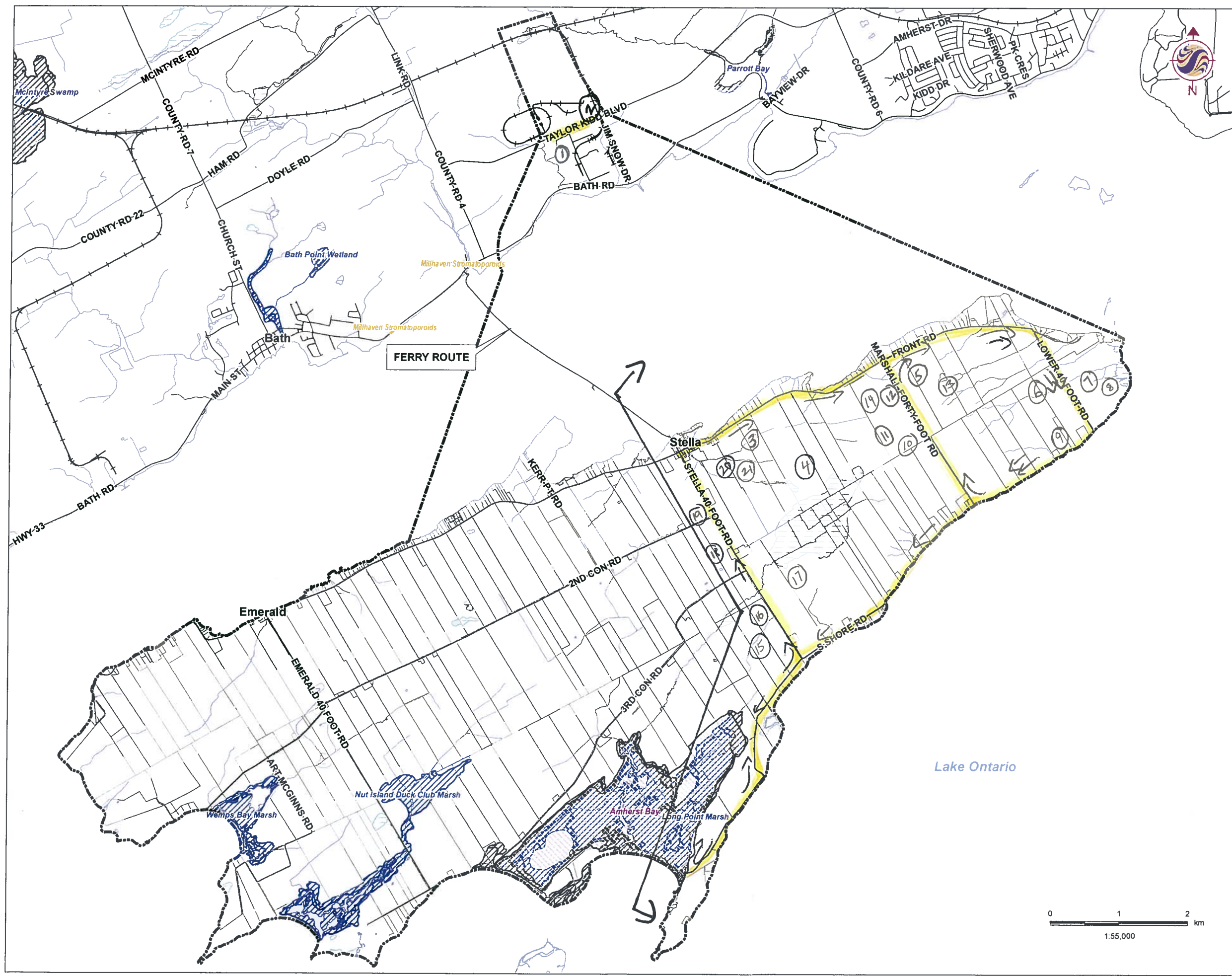
SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)

GIANT SWALLOWTAIL - OB

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

EAST-MAINLANE



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
 - Property Boundaries
 - Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl & Raptor Migration
Waterfowl, Winter Raptor & Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1100960595

Project Name: Amherst Island

Date / Time: Nov. 9 / 11 / 1:08 pm
- 3:49 pm

Field Personnel: J. Mansell, Z. Lebrun-Southcott

Weather Conditions:	Temp: <u>15°C</u> <u>2:15 → 10°C</u>	Wind: <u>2, SW</u> <u>3</u>	Cloud: <u>15%</u> <u>50%</u> <u>3:15 → 70%</u>	PPT: <u>none</u>	PPT in last 24 hrs: <u>light rain</u>
----------------------------	---	--------------------------------	--	------------------	---------------------------------------

- surveyed Taylor-Kield in morning b/f taking ferry to island

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
NOHA/8:06 (#1)	1	5m	- hunting
RTHA/8:11 (#2)	1	20m	- on wire
217 AMKE/1:18 (#3)	1	30m	- hovering
218 RLHA/1:19 (#4)	1	70m	- hovering
71 NOHA/1:28 (#5)	1	10m	- hunting posture
219 RLHA/1:39 (#6)	1	30m, flying S	
220 RTHA/1:43 (#7)	1	10m	- perched in tree
221 RLHA/1:46 (#8)	1	10m	- perched in tree
154 AMKE/1:52 (#9)	1	15m	- on wire
222 RTHA/2:05 (#10)	1	20m	- perched in tree
223 RTHA/2:08 (#11)	1	20m	- perched in tree
133 RLHA/2:14 (#12)	1	15m	- perched in tree

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1160960595

Project Name: Amherst Island

Date / Time: Nov. 9/11 / 1:08 pm
- 3:49 pm

Field Personnel: J. Mansell, Z. Lebrun-Southcott

Weather Conditions:	Temp: <u>15°C</u>	Wind: <u>2</u>	Cloud: <u>15%</u>	PPT: <u>none</u>	PPT in last 24 hrs: <u>light rain</u>
----------------------------	-------------------	----------------	-------------------	------------------	---------------------------------------

2:15 → 10°C 2:15 → 3 2:15 → 50%
3:15 → 70%

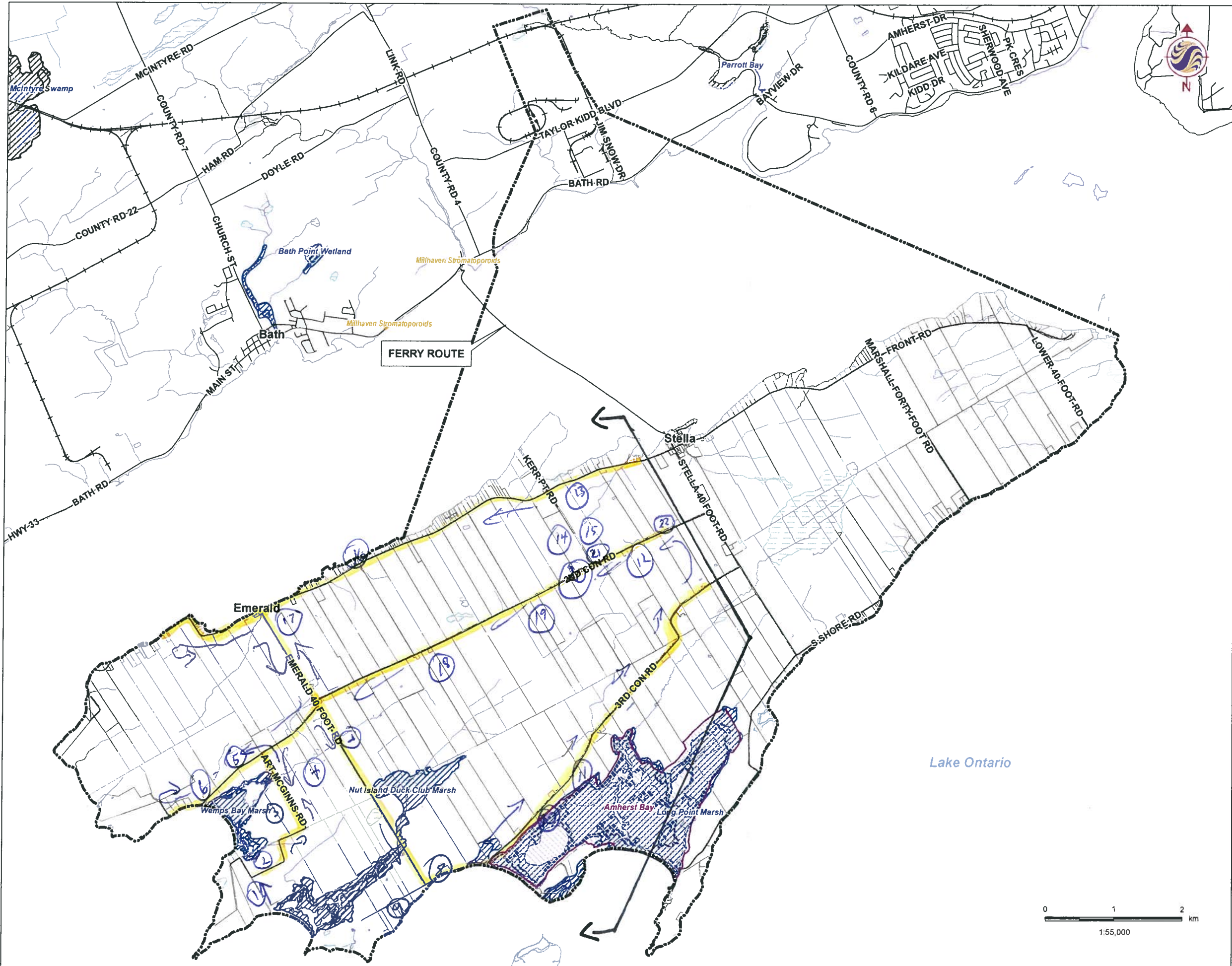
Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
224 RTHA / 2:15 (#13)	1	20m	- perched in tree
225 ALHA / 2:22 (#14)	1	20m, flying W	
50 NOHA / 3:21 (#15)	1	5m	- on post
226 ANKE / 3:25 (#16)	1	5m	- perched on wire
227 RTHA / 3:27 (#17)	1	15m	- perched in tree
122 ALHA / 3:31 (#18)	1	5m	- on post
228 RTHA / 3:37 (#19)	1	15m	- on post
174 ANKE / 3:40 (#20)	1	5m	- on post
121 Bateo / 3:52 (#21)	1	5m	- on post

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

WEST



Legend

- Project Study Area
- Road
- Railway
- Watercourse
- Waterbody
- Unevaluated Wetland
- Provincially Significant Wetland
- ANSI, Earth Science
- ANSI, Life Science
- Property Boundaries
- Wooded Area



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
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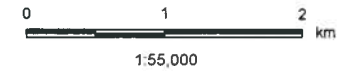
Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl, & Raptor Migration + Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1100960595

Project Name: Amherst Island

Date / Time: Nov 9, 2011

Field Personnel: STAMP & HESLOP

Weather Conditions:	Temp: <u>15</u>	Wind: <u>SW 5km</u>	Cloud: <u>30%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>4115</u>
----------------------------	-----------------	---------------------	-------------------	---------------	---------------------------------

45 km driven

	Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
207	① SSNA 1215	1	(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep) BELOW BLADE	HUNTING.
165	② NSHR 1241	1	" "	"
83	③ RLHA 1245	1	" "	PERCHED at 8m
	AMKE "	1	" "	" + HUNTING
166	④ RLHA 1250	1	" "	HUNTING
208	⑤ NSHR 1254	1	" "	"
34	⑥ RTHA 1257	1	" "	PERCHED at 5m.
151	⑦ NDHA 1319	2	" "	1 PERCHED @ 2m 1 HUNTING
	RTHA "	1	" "	HUNTING.
28	⑧ RTHA 1330	1	" "	PERCHED @ 4m.
76	⑨ AMKE 1335	1	" "	" " "
209	⑩ NDHA 1351	1	" "	HUNTING.
210	⑪ AMKE 1400	1	" "	"
66	⑫ NDHA 1413	1	" "	"
150	⑬ NDHA 1434	1	" "	"
211	⑭ RLHA 1440	1	" "	"
212	⑮ " " 1511	1	" "	"
213	⑯ RTHA 1511	1	" "	FLYING E ALONG SHORE
116	⑰ NDHA 1553	1	" "	HUNTING.
117	⑱ NSHR 1602	1	" "	"
	AMKE "	1	" "	"
171	⑲ RLHA 1609	1	" "	PERCHED @ 5m
142	⑳ " 1612	3	" "	" " "
			" "	" " "

Quality Control: This form is complete & legible

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

RAPTORS

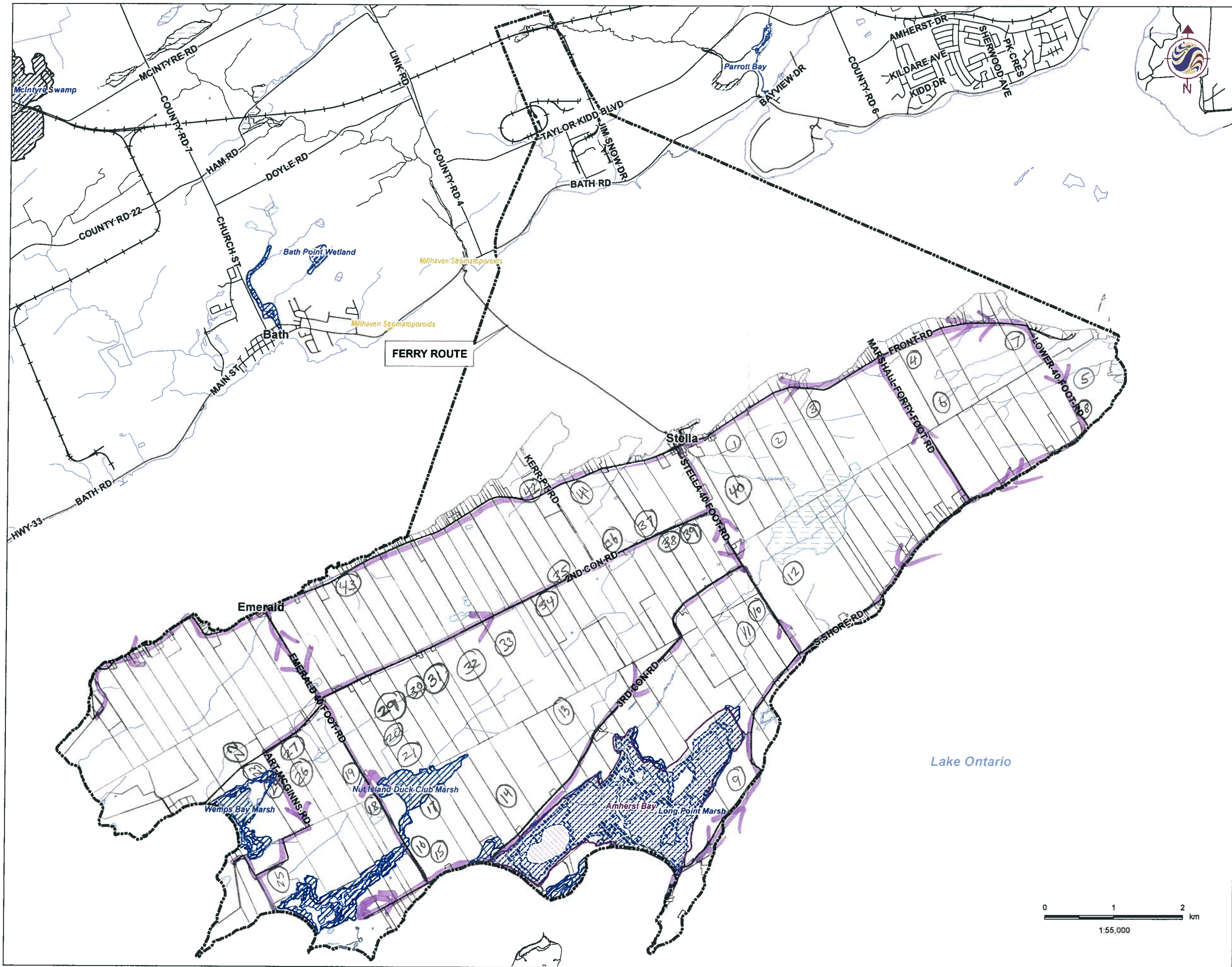
~~Other Bird Species~~

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

Species	# of Individuals	Location	Behaviour
214 (21) RLHA 1115	1	In water, agr. field near puddle, mowed lawn etc. BELOW BLADE HEIGHT	Height/direction of flight, feeding etc. PERCHED @ 5m.
88 (22) RLHA 1620	1	" " "	" " "

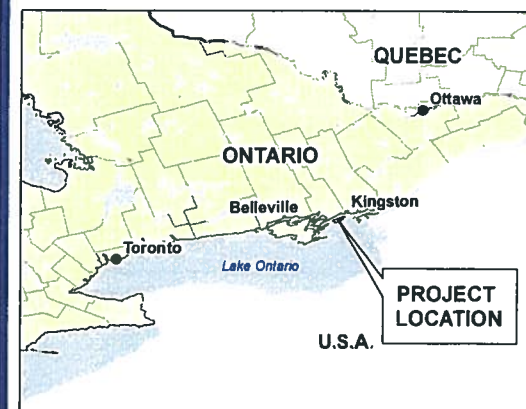
Quality Control: This form is complete & legible
Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Project Study Area
- Road
- Railway
- Watercourse
- Waterbody
- Unevaluated Wetland
- Provincially Significant Wetland
- ANSI, Earth Science
- ANSI, Life Science
- Property Boundaries
- Wooded Area



Notes

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Stantec

August 2011
160960595

Client/Project

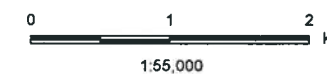
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

1

Title

Field Map - Waterfowl & Raptor Migration





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

**Migrating Raptor
Observation Form**

Project Number: 160960595

Project Name: Ankerst

Date / Time: Nov. 17 / 11 11:00 am
- 4:12 pm

Field Personnel: J. Maxwell, Z. Lebrun-Southcott

Weather Conditions:	Temp: <u>2-4°C</u>	Wind: <u>3-4, NW</u>	Cloud: <u>50-75%</u>	PPT: <u>light flurries for 15 min.</u>	PPT in last 24 hrs: <u>none</u>
----------------------------	--------------------	----------------------	----------------------	--	---------------------------------

Stopped @ owl woods for 20 min

3:48 → snow flurries
4:00 → flurries ended

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
38 ALHA/11:00 (#1)	1	25m	- hovering
40 RLHA/11:04 (#2)	1	20m	- hunting pasture
229 RLHA/11:04 (#3)	1	30m	- hunting pasture
135 RTHA/11:15 (#4)	1	10m	- perched in tree
220 RLHA/11:22 (#5)	1	10m	- perched in tree
230 RTHA/12:00 (#6)	1	30m	- hunting pasture
230 NOHA/12:02 (#6)	1	5m	- flying NW
231 NOHA/12:11 (#7)	1	30m	- flying SW
231 AMKE/12:11 (#7)	1	15m	- on wire
2 MER/12:16 (#8)	1	2m	- on post, eating CEDW
231 AMKE/12:47 (#9)	1	8m	- on wire
226 RTHA/12:55 (#10)	1	5m	- perched in tree
50 NOHA/12:56 (#11)	1	10m	- hunting pasture
227 RTHA/12:58 (#12)	1	15m	- hunting pasture
227 RLHA/12:58 (#12)	1	30m	- circling

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Raptors (cont.)

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

Height + direction

Notes

Species/ (# on map)	# of Individuals	Location	Behaviour
237 RLHA/3:15 (#35)	1	15m In water, agr. field near puddle, mowed lawn etc.	Height/direction of flight, feeding etc. - perched in tree
237 RLHA/3:15 (#35)	1	15m	- perched in tree
214 RLHA/3:19 (#36)	1	10m	- perched in tree
238 RLHA/3:21 (#37)	1	10m	- perched in tree
66 RLHA/3:23 (#38)	1	15m	- perched in tree
19 RLHA/3:26 (#39)	1	5m	- perched on post
239 RLHA/3:29 (#40)	3	15m, 5m	- 2 perched in trees; 1 flying N
239 RLHA/3:24 (#40)	1	10m	- perched in tree
86 RLHA/3:42 (#41)	1	20m	- perched in tree
240 RLHA/3:45 (#42)	1	10m, flying S	
241 ANKE/4:18 (#43)	1	10m	- on wire

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 160960595 Project Name: Amherst
Date / Time: Nov. 17/11 Field Personnel: J. Mansell, Z. Lebrun-Southcott

Weather Conditions:	Temp: <u>2-4°C</u>	Wind: <u>3-4 NW</u>	Cloud: <u>50-75%</u>	PPT: <u>light flurries</u>	PPT in last 24 hrs: <u>none</u>
----------------------------	--------------------	---------------------	----------------------	----------------------------	---------------------------------

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
232 NOHA/1:13 (#13)	1	30m, flying NE	- hunting posture
75 NOHA/1:17 (#14)	1	20m	- on wire
28 RTHA/1:21 (#15)	1	10m	- hunting posture
58 NOHA/1:23 (#16)	2	15m (both)	
233 RLHA/1:32 (#17)	2	10m, 30m	1 perched in tree; hovering - then both up in air + fighting
234 RTHA/1:35 (#18)	1	5m	- on post; eating
60 NOHA/1:39 (#19)	1	5m, flying NW	
159 NOHA/1:41 (#20)	1	40m	- hunting posture
235 RLHA/1:42 (#21)	1	20m, flying E	
208 AMKE/1:49 (#22)	1	10m	- on wire
162 RTHA/1:50 (#23)	1	10m	- perched in tree
11 RTHA/2:03 (#24)	1	10m	- perched in tree
62 NOHA/2:09 (#25)	1	5m	- hunting posture

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Raptors (cont.)


Other Bird Species

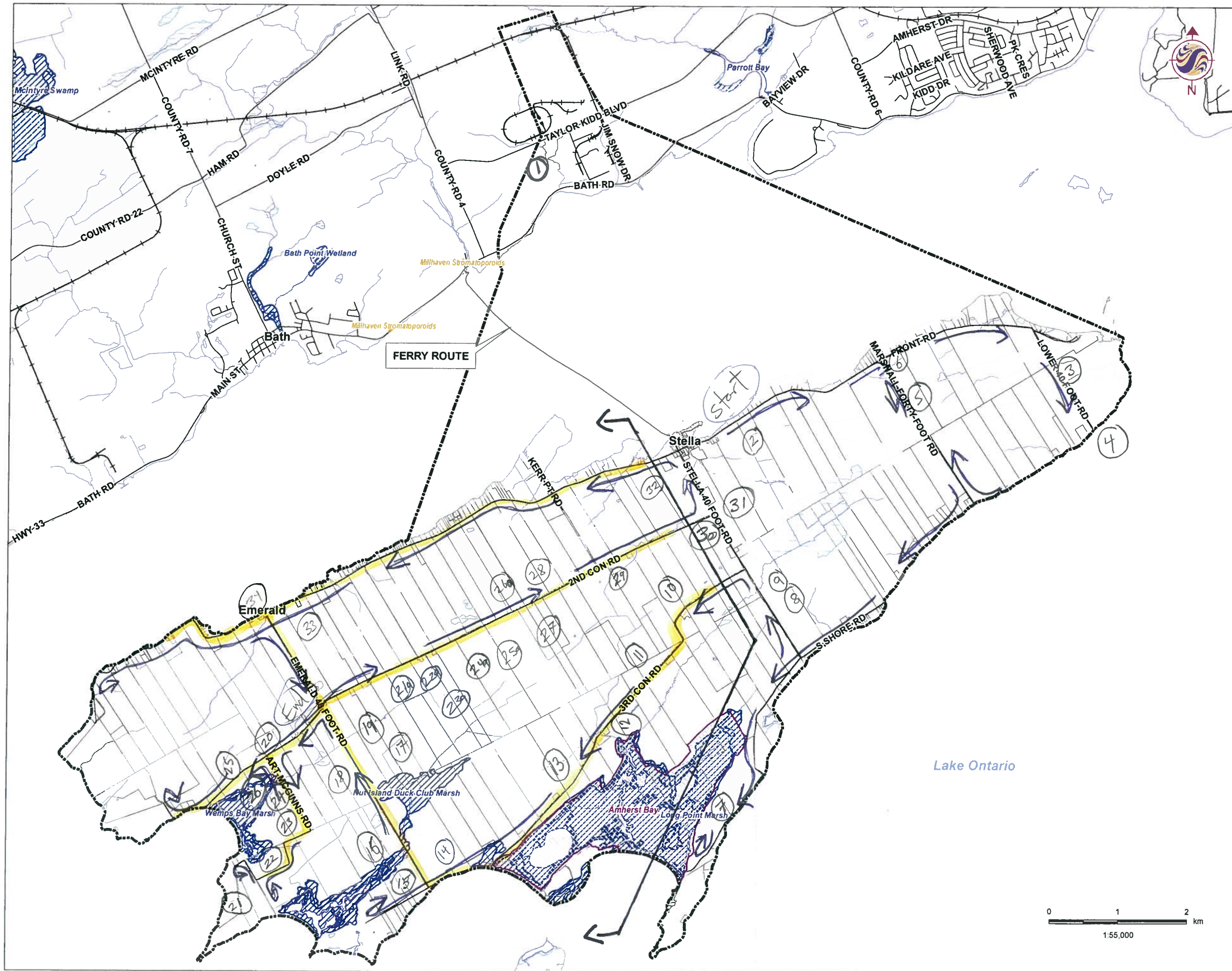
Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

Species/ Time (# on map)	# of Individuals	Flight height + direction	Notes
		Location	Behaviour
		In water, agr. field near puddle, mowed lawn etc.	Height/direction of flight, feeding etc.
62 RTHA/2:11 (#25)	1	40m, flying SW	- circling
166 RLHA/2:28 (#26)	1	30m, flying W	- perched in tree
11 RTHA/2:33 (#24)	1	25m	- on wire
32 RTHA/2:35 (#27)	1	5m	- on wire
236 RLHA/2:47 (#29)	2	0m, 5m	- perched in field - one on ground, one on post
no 28 (skipped) 236 NOHA/2:47 (#29)	3-	0m (2); third flying W @ 5m	- 2 on ground
167 NOHA/2:56 (#30)	1	2m	- on post
167 RLHA/2:57 (#30)	1	10m	- perched in tree
117 NOHA/2:59 (#31)	3	5m	- 2 perched on posts one hunting posture
117 RLHA/2:59 (#31)	4	2m; 30m	- on posts (3) - in tree (1)
117 RTHA/3:00 (#31)	1	2m	- on post
198 RLHA/3:05 (#32)	3	5m	- on posts
198 NOHA/3:05 (#32)	1	2m	- on post
198 AMKE/3:07 (#32)	1	15m	- on wire
199 RTHA/3:09 (#33)	2	15m	- perched in tree (beside each other)
141 RTHA/3:13 (#34)	1	10m	- perched in tree

Quality Control: This form is complete (✓) & legible (✓).

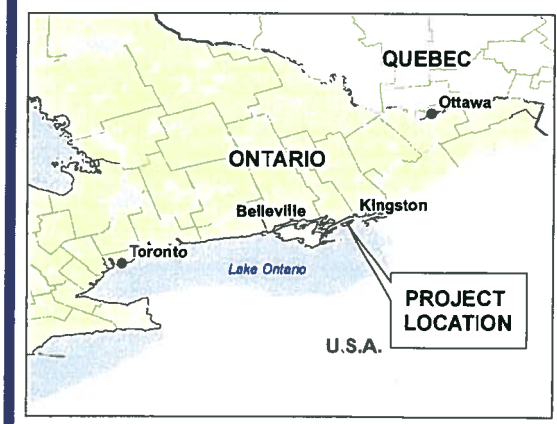
Signature:  (Field Personnel)

Signature:  (Project Manager)



Legend

- Project Study Area
- Road
- Railway
- Watercourse
- Waterbody
- Unevaluated Wetland
- Provincially Significant Wetland
- ANSI, Earth Science
- ANSI, Life Science
- Property Boundaries
- Wooded Area



Notes

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2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



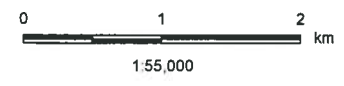
Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl, Raptor Migration + Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 110960595

Project Name: Amherst Island

Date / Time: Nov. 24/11 8:55-1:00pm

Field Personnel: J. Heslop & Z. Lebrun - Southcott

Weather Conditions:	Temp: <u>-10C - 5C</u>	Wind: <u>2-3</u>	Cloud: <u>30-100%</u>	PPT: <u>none</u>	PPT in last 24 hrs: <u>none</u>
----------------------------	------------------------	------------------	-----------------------	------------------	---------------------------------

72 km total

15407
479

- drove
Taylor-ledd
+ Jim Snow
before 242

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
RTHA/8:05 (#1)	1	10m	- perched in tree
69 ANKE/8:55 (#2)	1	2m	- on post
44 NOHA/9:14 (#3)	3	10m to 40m, to 150m	- looking post + crossing road, then flew offshore
243 RLHA/9:19 (#4)	1	150m	- circling
134 RLHA/9:36 (#5)	1	5m	- perched on tree
244 NOHA/9:39 (#6)	1	2m	- hunting
21 ANKE/10:03 (#7)	1	5m	- on wire
21 NOHA/10:03 (#7)	1	2m	- perched on bush
245 RLHA/10:25 (#8)	1	20m	- perched on tree
227 RTHA/10:27 (#9)	1	25m	- perched in tree
108 NOHA/10:33 (#10)	1	2m	- on post
108 ANKE/10:33 (#10)	1	2m	- on post
246 RTHA/10:37 (#11)	1	15m	- perched in tree
247 RTHA/10:39 (#12)	1	10m	- on wire

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature] (Field Personnel)

Signature: [Signature] (Project Manager)



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1120960595

Project Name: Amherst Island

Date / Time: Nov. 27 / 11

Field Personnel: J. Heslop & Z. Lebrun - Southcott

Weather Conditions:

Temp:

Wind:

Cloud:

PPT:

PPT in last 24 hrs:

see pg 1

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
247 RLHA/10:40 (#12)	1	20m	- perched in tree
185 RTHA/10:44 (#13)	2	10m, flying E	- 1 perched in tree + 1 flying
28 ANKE/10:49 (#14)	1	20m	- hovering
28 RLHA/10:51 (#14)	1	5m	- perched in tree
28 RLHA/10:53 (#14)	1	30m	- hovering
9 RTHA/11:00 (#15)	1	20m	- circling
248 NOHA/11:01 (#16)	1	50m, flying W	
249 RLHA/11:07 (#17)	1	2m	- on post
80 NOHA/11:09 (#18)	1	2m	- on post
80 RTHA/11:09 (#18)	2	15m	- perched in tree
151 NOHA/11:12 (#19)	1	2m	- on post
82 NOHA/11:16 (#20)	1	10m	- flew across road w/ mouse
250 RLHA/11:21 (#21)	2	150m, flying E (#1) 15m (#2)	- on posts

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



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N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1120960595

Project Name: Amherst Island

Date / Time: Nov. 24 / 11

Field Personnel: J. Heshp & Z. Lebrun - Southcott

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
			<u>See pg 1</u>		

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
33 NSHR / 11:46 (#22)	1	5m	- hovering / hunting
251 RTHA / 11:47 (#23)	1	40m	- circling
83 ANLE / 11:51 (#24)	1	10m	- on wire
14 ANLE / 11:54 (#25)	1	10m	- on wire
252 BAEA / 11:58 (#26)	1	120m, flying NE	
82 NOHA / 12:09 (#20)	1	10m, flying S	
236 NOHA / 12:15 (#21a)	1	5m	- hunting posture
36 RTHA / 12:17 (#22a)	1	2m	- on post
36 RLHA / 12:17 (#22b)	2	2m	- on posts
168 RLHA / 12:17 (#23a)	1	100m	- hovering
169 NOHA / 12:20 (#24a)	1	5m	- hunting posture
169 RLHA / 12:21 (#24b)	4	2m	- on posts
199 RLHA / 12:23 (#25a)	2	20m, 80m	- hovering

accidentally went back to on are #9 2nd con.

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1120960595

Project Name: Amherst Island

Date / Time: Nov. 24/11

Field Personnel: J Heslop & Z. Lebrun-Southcott

Weather Conditions:

Temp:

Wind:

Cloud:

PPT:

PPT in last 24 hrs:

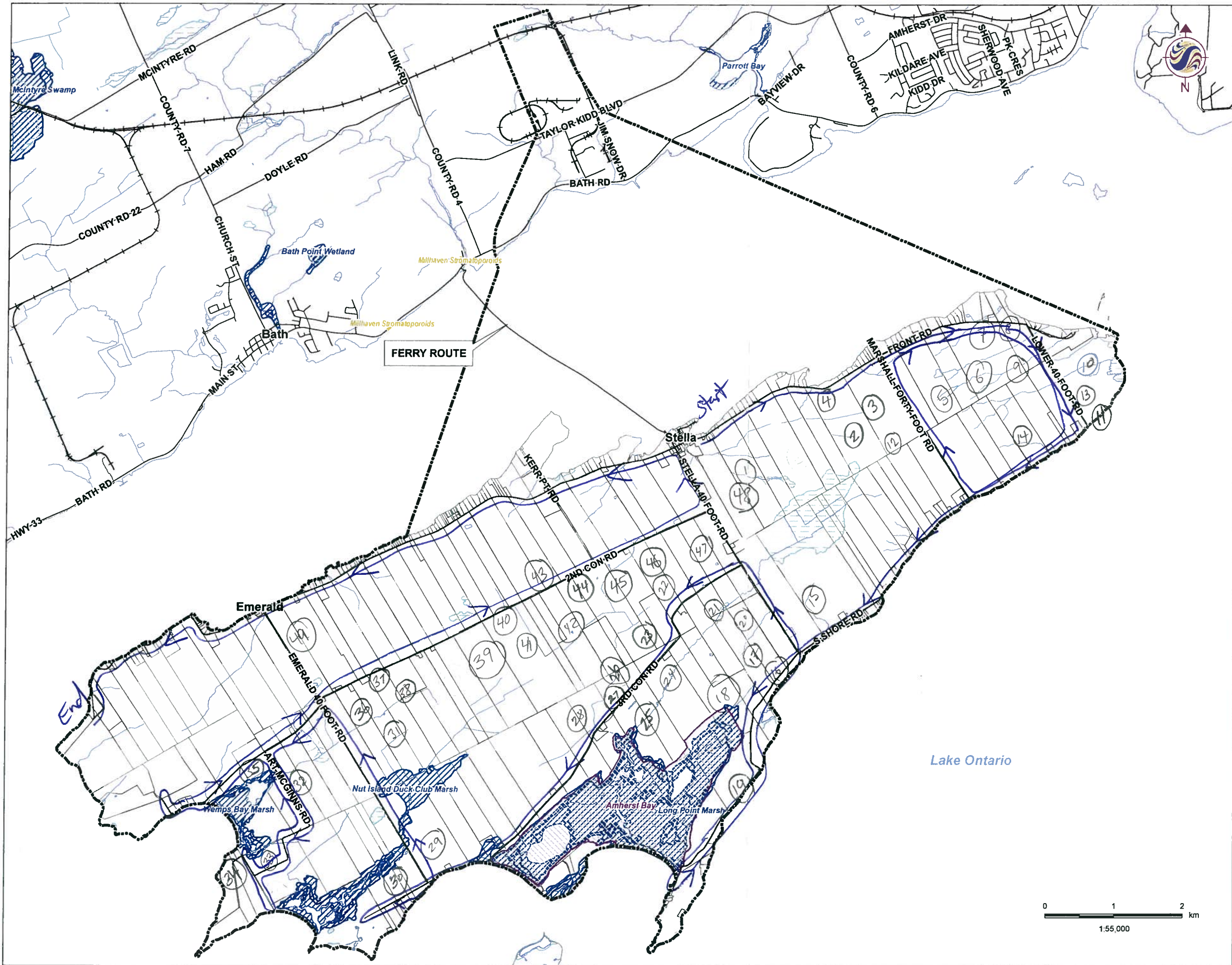
See pg 1

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
253 RLHA/12:24 (#26)	1	20m	- perched in tree
170 RTHA/12:26 (#27)	1	2m	- on post
170 RLHA/12:26 (#27)	1	80m	- hovering
254 RLHA/12:26 (#28)	1	10m	- perched in tree
254 NOHA/12:27 (#28)	1	5m	- hunting
255 RTHA/12:30 (#29)	1	10m	- perched in tree
19 RTHA/12:33 (#30)	1	2m	- on post
149 NOHA/12:33 (#31)	1	5m	- hunting then perched
149 RLHA/12:34 (#31)	2	5m	- perched
256 NOHA/12:43 (#32)	1	5m	- hunting
194 ANKE/12:50 (#33)	1	15m	- hovering
257 NOHA/12:52 (#34)	1	20m, flying W	- flying over water right by shore

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
 - Property Boundaries
 - Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



Stantec August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl & Raptor Migration





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 160960595

Project Name: Amherst

Date / Time: Dec 1 / 11 11:58 am
- 4:40 pm

Field Personnel: B. Holden + Z. Lebrun - Southhead

Weather Conditions:	Temp: <u>6°C</u>	Wind: <u>1-2</u>	Cloud: <u>40-60%</u>	PPT: <u>none</u>	PPT in last 24 hrs: <u>rain/snow</u>
---------------------	------------------	------------------	----------------------	------------------	--------------------------------------

Total km = 86

nap location
inter fall
1
2
3
4
5
6
7
8
9
0
1
12
13
14
one do on map column

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
121 RLHA/12:02 (#1)	1	40m	- perched in tree
121 RLHA/12:03 (#1)	1	40m	- circling
258 RLHA/12:07 (#2)	1	50m	- circling
259 RLHA/12:09 (#3)	1	70m	- circling
229 AMKE/12:10 (#4)	1	10m	- on wire
230 RLHA/12:17 (#5)	1	30m	- hovering
260 RLHA/12:20 (#6)	1	30m, flying SE	- then perched
20 RLHA/12:22 (#7)	1	25m, flying SE	- crossed road
261 RLHA/12:24 (#8)	1	10m	- on wire
262 RLHA/12:25 (#9)	1	40m	- circling + being harassed by AMKEs
262 RLHA/12:26 (#9)	1	40m	- circling
178 SNOW/12:36 (#10)	1	20m	- perched in tree

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Raptors (cont.)

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.


Height + direction

Notes

Species	# of Individuals	Location	Behaviour
249 NOHA/2:37 (#31)	1	In water, agr. field near puddle, mowed lawn etc. 40m, flying NW	Height/direction of flight, feeding etc.
197 AMKE/2:43 (#32)	1	10m	- on wire
165 RTHA/2:47 (#33)	1	10m	- on wire
84 RTHA/3:00 (#34)	1	15m	- on post
84 RLHA/3:00 (#34)	1	30m	- hovering
162 NSHA/3:08 (#35)	1	20m	- perched in tree
92 NOHA/3:20 (#36)	1	5m	- hunting pasture
35 NOHA/3:23 (#37)	2	5m	- hunting pasture
167 RLHA/3:23 (#38)	1	10m	- perched on snag
167 RTHA/3:28 (#38)	1	15m	- perched in tree
169 NOHA/3:31 (#39)	6	2m	- on posts
169 RLHA/3:31 (#39)	11	2m	- on posts
169 RTHA/3:31 (#39)	2	2m	- on posts
146 NOHA/3:33 (#40)	1	10m, flying S	- crossed road
146 RTHA/3:33 (#40)	1	10m, flying S	- crossed road
170 RLHA/3:35 (#41)	4	2m	- on posts
118 RLHA/3:37 (#42)	1	20m	perched in tree

Quality Control: This form is complete () & legible ()

Signature:  (Field Personnel)

Signature:  (Project Manager)

Page 4 of 5

REV: Aug 10

Form 018



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 160960595

Project Name: Amherst

Date / Time: Dec. 1 / 11

Field Personnel: B. Holden + Z. Lebrun - Southcott

Weather Conditions:	Temp:	Wind: <u>See</u>	Cloud: <u>Pg 1</u>	PPT:	PPT in last 24 hrs:
---------------------	-------	---------------------	-----------------------	------	---------------------

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
263 snow/12:40 (#11)	1	0m	- on shore
222 RTHA/12:52 (#12)	1	25m	- perched in tree
2 NOHA/1:03 (#13)	1	0m	- perched on ground
264 RLHA/1:17 (#14)	1	25m	- perched in tree
245 NOHA/1:20 (#15)	1	5m	- hunting posture
265 AMKE/1:22 (#16)	1	10m	- on wire
266 NOHA/1:23 (#17)	1	5m	- hunting posture
130 NOHA/1:26 (#18)	1	50m	- circling
231 AMKE/1:36 (#19)	1	10m	- on wire
267 RTHA/1:51 (#20)	1	20m	- perched in tree
124 NOHA/1:54 (#21)	1	5m	- hunting posture
268 RLHA/1:57 (#22)	1	15m	- perched in tree
268 NOHA/1:57 (#22)	1	2m	- perched on snag

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: Kathie Sh
(Project Manager)

Raptors (cont.)

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

Species	# of Individuals	Location	Behaviour
118	NOHA/3:37 (#42)	2 5m	In water, agr. field near puddle, mowed lawn etc. Height/direction of flight, feeding etc. - huddling posture
271	RLHA/3:37 (#43)	3 10m, 30m	- one perched, @ 10m 2 flying NW
142	RLHA/3:44 (#44)	1 30m, flying NW	
142	RTHA/3:46 (#44)	1 20m	- perched in tree
65	RLHA/3:49 (#45)	1 20m	- perched in tree
65	NOHA/3:49 (#45)	1 5m	- being attacked by CORA
66	RTHA/3:51 (#46)	1 20m	- perched in trees
122	RTHA/3:54 (#47)	1 15m	- perched in tree
149	RTHA/3:57 (#48)	1 20m	- perched on tree
149	RLHA/3:57 (#48)	3 15m, 40m, 70m	- perched; (1) hovering; (2) flying SW (3)
272	RTHA/4:13 (#49)	1 20m	- perched in tree

Quality Control: This form is complete & legible .

Signature:  (Field Personnel)

Signature:  (Project Manager)



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Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 110960595

Project Name: Amherst Island

Date / Time: Dec 1/11

Field Personnel: B. Holden + Zebra - South

Weather Conditions:

Temp:

Wind:

Cloud:

PPT:

PPT in last 24 hrs:

see pg 1

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
55 NOHA/2:01 (#23)	1	2m	- hunting posture
126 NOHA/2:02 (#24)	1	2m	- perched in tree
140 RTHA/2:04 (#25)	1	40m	- circling
140 RLHA/2:04 (#25)	1	40m	- circling
268 RTHA/2:07 (#26)	1	20m	- chasing NOHA
268 NOHA/2:07 (#26)	1	20m	- chasing RTHA
269 NOHA/2:09 (#27)	1	5m	- hunting posture
270 NOHA/2:12 (#28)	1	0m	- hunting posture
270 ALHA/2:15 (#28)	1	2m	- on post
58 RLHA/2:19 (#29)	1	25m	- perched in tree
192 NOHA/2:22 (#30)	1	2m	- perched on snag
249 RLHA/2:31 (#31)	1	50m	- circling
249 NOHA/2:34 (#31)	1	0m	- perched on ground
249 AMPE/2:35 (#31)	1	2m	- perched in post

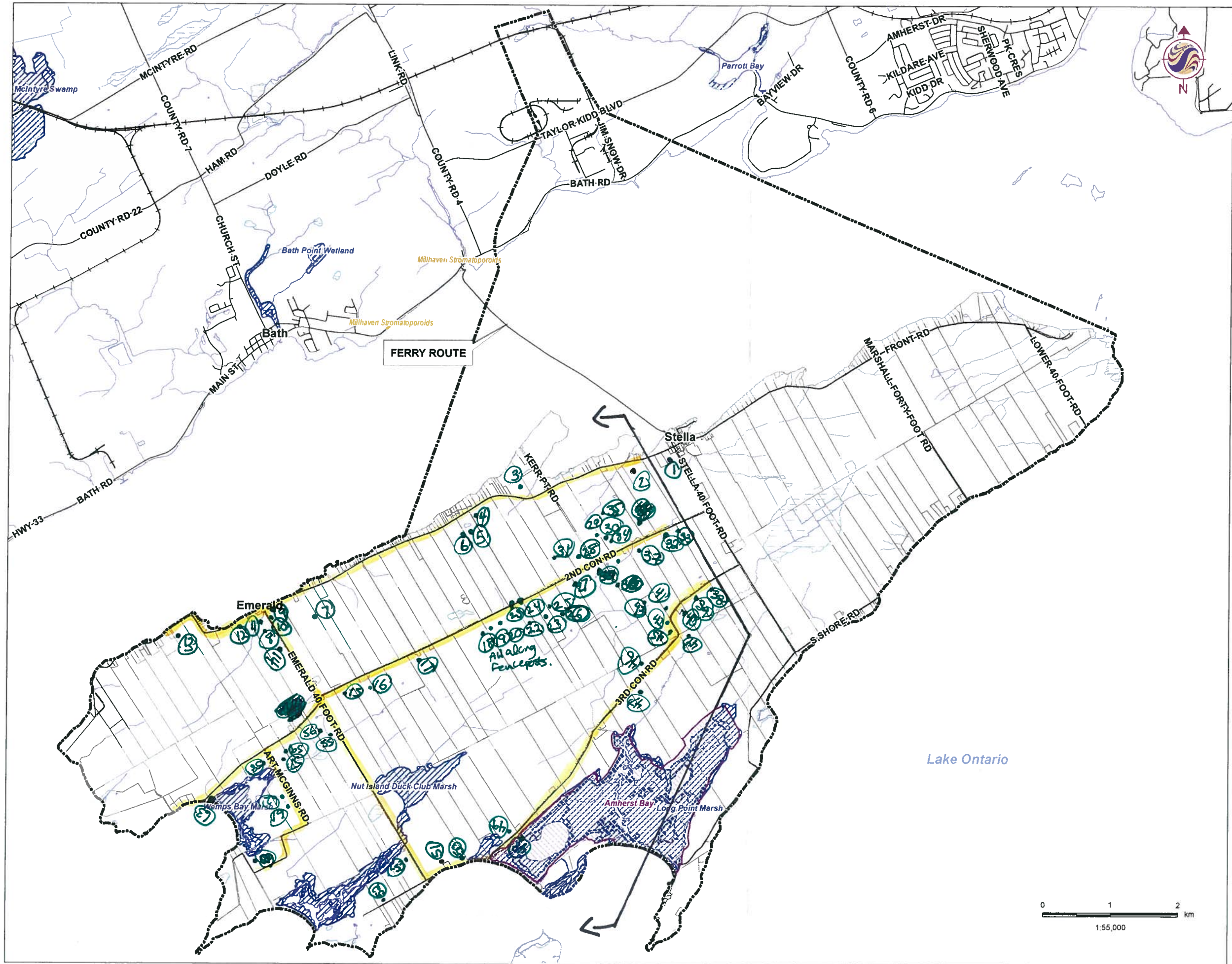
Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]

(Field Personnel)

Signature: [Signature]

(Project Manager)



Legend

- Project Study Area
- Road
- Railway
- Watercourse
- Waterbody
- Unevaluated Wetland
- Provincially Significant Wetland
- ANSI, Earth Science
- ANSI, Life Science
- Property Boundaries
- Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl, & Raptor Migration + Short-eared Owl





Stantec Consulting Ltd.
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N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

**Migrating Raptor
Observation Form**

Project Number: 1160960595 Project Name: Amherst Island

Date / Time: Dec 7, 2011 Field Personnel: C. Payette, B. Holden

Weather Conditions:	Temp: <u>6°C</u>	Wind: <u>3</u>	Cloud: <u>100</u>	PPT: <u>None</u>	PPT in last 24 hrs: <u>light drizzle</u>
----------------------------	------------------	----------------	-------------------	------------------	--

	Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes	
68	① NOHA 9:52	1	(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep) Below - sitting	on fence post	50
69	② RTHA	1	perched	in tree.	51
70	③ NOHA	1	20m	Being mobbed/ Flying	52
71	④ RLHA	1	15m - perched	in tree top	53
72	⑤ RLHA	1	15m perched	in tree top	54
73	⑥ RTHA	1	10m perched	happily down	55
74	⑦ RTHA	1	15m perched	in tree	56
75	⑧ NOHA	1	10m flying low	in tree.	57
76	⑨ RTHA	1	10m - Flew off wire was perched	crossed Rel	58
77	⑩ NOHA	1	perched	on hydroline	59
78	⑪ RTHA	1	perched 1m	on fence post	60
79	⑫ AMKE	1	perched 15m	in tree	61
80	⑬ SSHA	1	perched 1m	in Bush	62
80	⑬ SSHA	1	perched 1.5m	in bush -	63
81	⑭ AMKE	1	perched 10m	in tree	64

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

~~Other Bird Species~~

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

Species	# of Individuals	Location	Behaviour
82 (15) RTHA	1	In water, agr. field near puddle, mowed lawn etc.	Height/direction of flight, feeding etc.
83 (16) RTHA	1	Flying - 50m SW	hunting over pasture
84 (17) RTHA	1	perched - 15m	in tree
85 (18) RLHA	12	perched - 10m	on hydro line
86 (19) RTHA	2	perched 1m	fence posts
87 (20) NOHA	2	perched 1m	fence posts
88 (21) RLHA	7	'perched', 1 flying	fence posts
89 (22) NOHA	1	"	"
90 (23) RTHA	1	"	"
91 (24) AMKE	1	hunting/flying 10m	over pasture
92 (25) NOHA	1	perched 1m	fence posts
42 (26) RTHA	1	" 1m	"
44 (27) RLHA	1	perched 15m	in tree
93 (28) NOHA	1	flying 5m	hunting
94 (29) NOHA	1	pasture	hunting over pasture
95 (30) RLHA	1	flying 10m	"
96 (31) RTHA	1	flying 10m	"
97 (32) RLHA	1	perched near FOD	in tree
98 (33) RLHA	1	1cm + pasture	over pasture
		perched in tree 15m	
		perched in tree 20m	over pasture

Quality Control: This form is complete (✓) & legible (✓).

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 160960595

Project Name: Amherst Island

Date / Time: Dec 7, 2011

Field Personnel: C. Payette, B. Holden

Weather Conditions:

Temp:

0°C

Wind:

3

Cloud:

100

PPT:

None

PPT in last 24 hrs:

light drizzle

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
80 99 (34) NOHA	1	(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
81 100 (35) RTHA	1	10m Flying	hunting
82 101 (36) RLHA	1	in tree 15m	Perched
83 46 (37) RLHA	1	Flying low over field 5m	hunting
84 102 (38) NOHA	1	perched in tree 15m	perched in pasture
85 103 (39) NOHA	1	over pasture 2m	hunting
86 104 (40) RTHA	1	on fence post 1m	perched
87 22 (41) NOHA	1	perched in tree 15m	perched
88 105 (42) NOHA	1	2m over field	hunting
89 106 (43) RLHA	1	perched in tree 2m	perched eating on fence post
90 107 (44) NOHA	1	perched in tree 15m	perched in pasture
91 108 (45) RLHA	1	perched	
92 109 (46) RTHA	1	perched in tree 15m	perched
93 110 (47) AMKE	1	perched in tree 15m	perched
94 111 (48) NOHA	3	perched by rd	Flew from one side to other
95 112 (49) RLHA	1	Flying over Marsh hunting 5-10m	Hunting
96 113 (50) NOHA	1	perched 1m	on fence post
97 114 (51) NOHA	1	perched in bush 15m	perched
		perched on fence post	

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

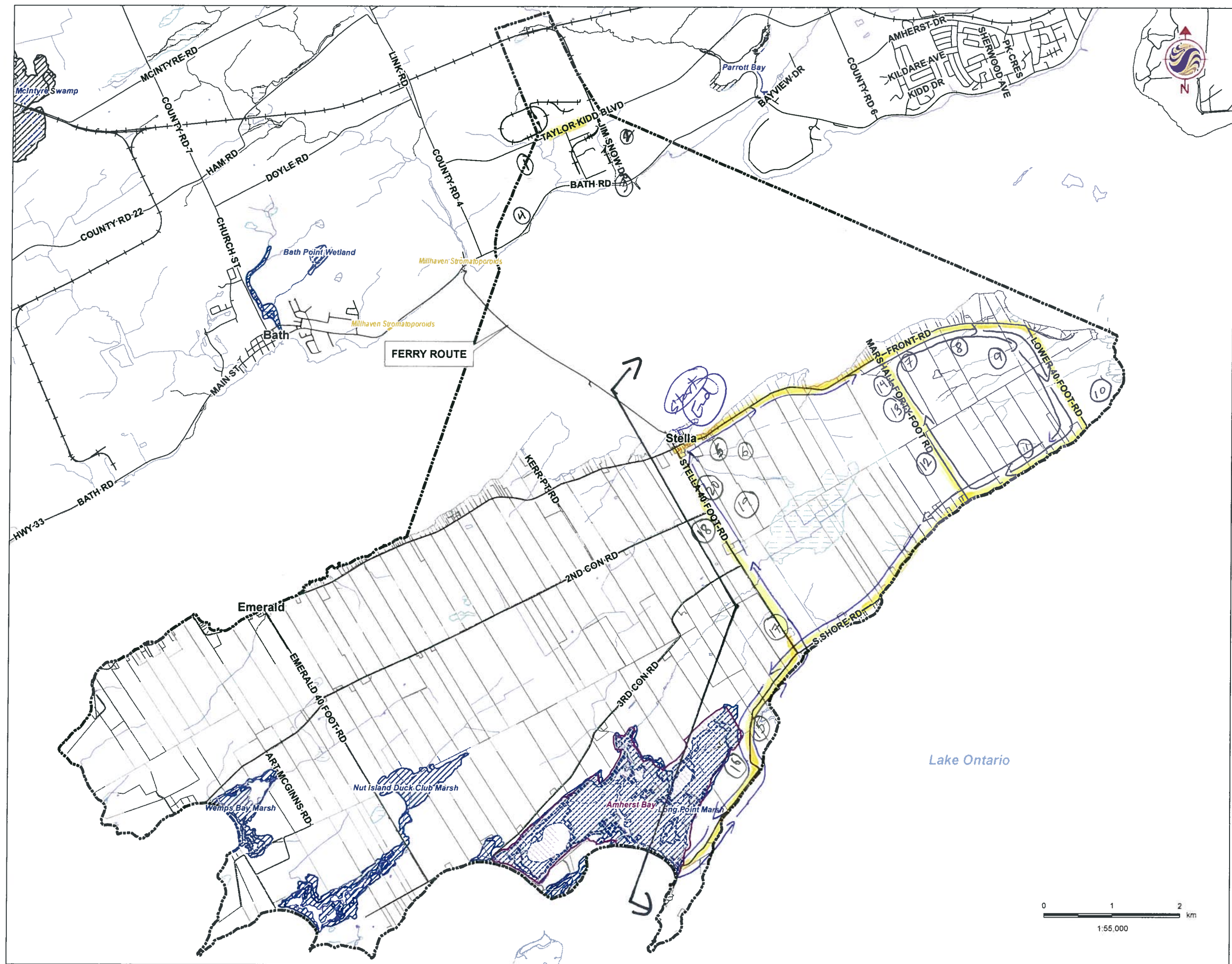
Species	# of Individuals	Location	Behaviour
17 115 (52) RLHA	1	In water, agr. field near puddle, mowed lawn etc. perched on ^{hedge} line 15m	Height/direction of flight, feeding etc.
78 116 (53) RTHA	1	perched on edge of pasture	approx. 10m up.
99 116 (54) RTHA	1	perched in tree in pasture 15m	
00 117 (55) RLHA	1	flown over Rd 15m	flying over pasture
01 118 (56) NOHA	1	hunting over pasture	3m
102 119 (57) AMKE	1	perched in tree 10m	
35 35 (58) RLHA	1	perched - 10m	in tree
102 120 (59) NOHA	1	flying N 2m	hunting
03 33 (60) AMKE	1	perched in tree - 20m	—
04 121 (61) RLHA	1	flying over pasture 20m	—
35 122 (62) NOHA	1	flying over pasture 5m	—
16 123 (63) RTHA	1	perched in tree	near water's river/marsh.

Quality Control: This form is complete (✓) & legible (✓).

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

EAST-MAINLANE



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
 - Property Boundaries
 - Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



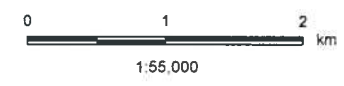
Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl & Raptor Migration
Waterfowl, Winter Raptor & Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1100960595

Project Name: Amherst Island

Date / Time: Dec. 7 / 11 ① 8:50 - 9:05
② 9:50 - 12:20

Field Personnel: J. Masell + Z. Lebrun - Southco

Weather Conditions:	Temp: <u>10C</u>	Wind: <u>1-2</u>	Cloud: <u>100%</u>	PPT: <u>none</u>	PPT in last 24 hrs: <u>none</u>
----------------------------	------------------	------------------	--------------------	------------------	---------------------------------

- drove
mainland
section
before
fall
9:50 - 9:05

mainland
107 50
108 51

island
112 55
113 56
114 57

115 58
112 59
114 60
113 61
114 62
115 63
116 64

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
RTHA / 8:51 (#1)	1	10m <small>(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)</small>	- perched in tree / field
RTHA / 8:55 (#2)	1	15m	- perched in tree / forest shrubland
RTHA / 9:03 (#3)	1	15m	- perched in tree / roadside, shore
RTHA / 9:05 (#4)	1	10m	- perched in tree / pasture
RLHA / 9:54 (#5)	1	8m	- perched on snag / pasture
NOHA / 9:59 (#6)	1	2m	- perched on post / pasture
RTHA / 10:14 (#7)	1	15m	- perched in tree / pasture
RTHA / 10:17 (#8)	1	20m	- perched in tree / pasture
RTHA / 10:18 (#9)	1	15m	- perched in tree / pasture
SNOW / 10:35 (#10)	1	0m	- on ground / pasture
SNOW / 10:48 (#11)	1	2m	- on post / pasture
RLHA / 10:58 (#12)	1	15m	- perched in tree / pasture
NSHR / 11:07 (#13)	1	15m	- perched in tree / pasture
RTHA / 11:10 (#14)	1	10m	- perched in tree / roadside, pasture
RLHA / 11:36 (#15)	1	20m	- perched in tree / roadside

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Raptors (cont.)

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

Height + direction

Notes

Species <small>time</small> (# or map)	# of Individuals	Location	Behaviour
		<i>In water, agr. field near puddle, mowed lawn etc.</i>	<i>Height/direction of flight, feeding etc.</i>
117 65 RTHA/11:38 (#16)	1	20m	- perched on hydro pole / pasture
117 65 MICE/11:59 (#16)	1	10m	- on wire / pasture
118 66 RTHA/12:06 (#17)	2	15m	- perched in tree / roadside
47 47 NSHR/12:14 (#18)	1	5m	- perched on bush/ hedge row
47 47 RLHA/12:14 (#18)	1	10m (dark morph)	- perched in tree / field
119 48 RLHA/12:16 (#19)	1	2m	- on post / pasture
120 67 RTHA/12:18 (#20)	1	15m	- circling / road / pasture

Quality Control: This form is complete (✓) & legible (✓)

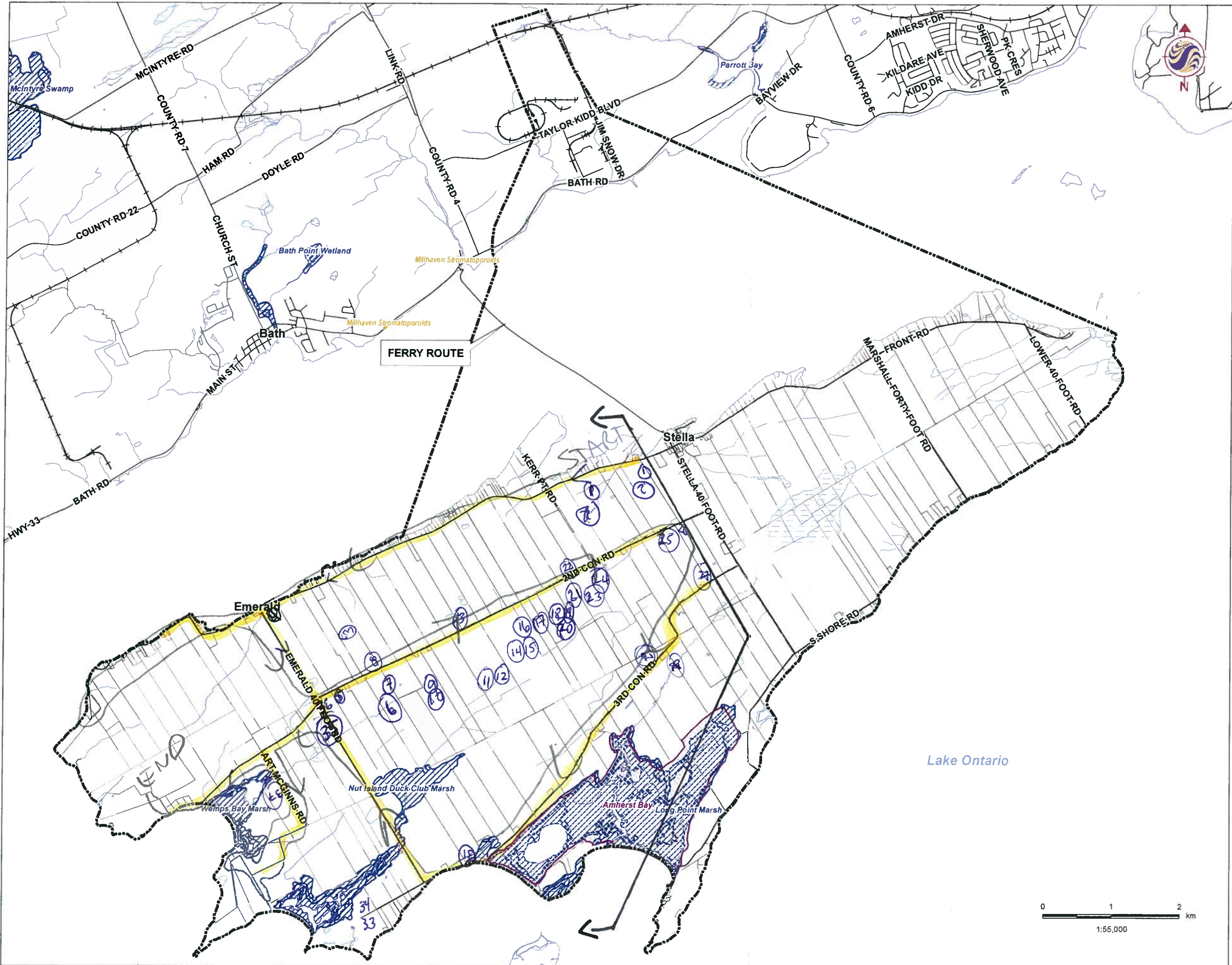
Signature: _____

(Field Personnel)

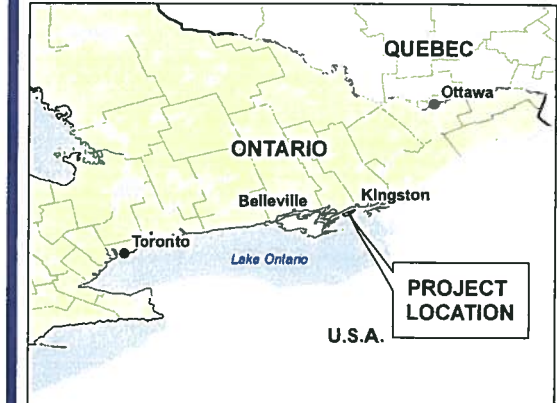
Signature: Kathi

(Project Manager)

WEST



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
 - Property Boundaries
 - Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



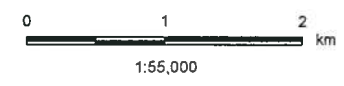
Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl, & Raptor Migration + Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 160960595

Project Name: Amherst Island

Date / Time: Dec 21, 11

Field Personnel: B. Holden, N. Charlton

Weather Conditions:

Temp:

4°

Wind:

2

Cloud:

100

PPT:

drizzle

PPT in last 24 hrs:

some rain

ON
MAP

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
P		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
51 ① RLHA	1 - 1004	- perched / pasture	- 10m
121 ② NOHA	1 1005	- " "	- 5m
122 ③ RTHA	1 10:16	- " "	- 5m
59 ④ AMKE	1 10:28	- perched on wire over pasture	- 5m mate
65 ⑤ RLHA	1 11:31	- perched above pasture	- 5m dark morph
123 ⑥ NOHA	1 11:35	flyng over pasture	- 5m
37 ⑦ NOHA	1 11:36	" "	- 5m
124 ⑧ RTHA	1 11:37	perched by hay field	5m
125 ⑨ RTHA	1 11:40	perched over pasture	5m
126 ⑩ SNOW	1 11:40	" "	5m
127 ⑪ RTHA	3 11:42	" "	"
128 ⑫ RLHA	5 11:42	" "	"
129 ⑬ RTHA	1 11:43	" "	"
130 ⑭ RLHA	4 11:45	" "	"
131 ⑮ NOHA	1 11:45	" "	"

Quality Control: This form is complete (✓) & legible (✓)

Signature: _____

(Field Personnel)

Signature: Kathie S

(Project Manager)

Page 1 of 3

REV: Aug 10

Form 018

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

	Species	# of Individuals	Location	Behaviour
70	⑩ RTHA	1 -11:47	In water agr. field near puddle, mowed lawn etc.	Height/direction of flight, feeding etc.
71	⑦ NOHA	2 11:47	→ over pasture (flying)	5m
72	NOHA	1	over pasture (flying)	5m
73	⑩ NOHA	1 11:53	perched over pasture	5m
132	⑩ RLHA	1 11:53	"	"
42	⑩ RTHA	1 11:53	"	"
44	⑩ RLHA	1 11:56	"	"
133	⑩ NOHA	1 11:58	"	"
134	⑩ NOHA	1 11:59	"	5m
135	⑩ RLHA	1 12:00	flying over pasture	5m
136	⑩ NOHA	1 12:07	perched above pasture	5m
78	⑩ RLHA	1 12:09	perched above pasture	15m
137	⑩ NOHA	1 12:13	flying over hay	5m
138	⑩ AMKE	1 12:21	perched over till	5m
139	⑩ NOHA	1 12:24	flying over corn	10m
140	⑩ NOHA	1 12:38	perched over hay/pasture	5m
95	⑩ RLHA	1 12:40	flying over swamp	5m
NA	⑩ RLHA	1 12:44	perched over hay	5m
NA	⑩ NOHA	1 12:44	flying " "	5m
140	⑩ NOHA	1 12:49	flying over pasture	5m
141	⑩ AMKE	1 12:51	perched on wire above hay	5m

Quality Control: This form is complete () & legible ()

Signature: _____
(Field Personnel)

Signature: Katrina S
(Project Manager)

Page 2 of 3

REV: Aug 10

Form 018

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

Species	# of Individuals	Location	Behaviour
		<i>In water, agr. field near puddle, mowed lawn etc.</i>	<i>Height/direction of flight, feeding etc.</i>
142 (35) NOHA	2-12:57	flying over pasture	5m
123 (36) RLHA	1-1:00	flying over pasture	20m
105 (37) NOHA	1 1:17	perched over hay	5m

Quality Control: This form is complete (✓) & legible (✓).

Signature: _____

(Field Personnel)

Signature: Kame S

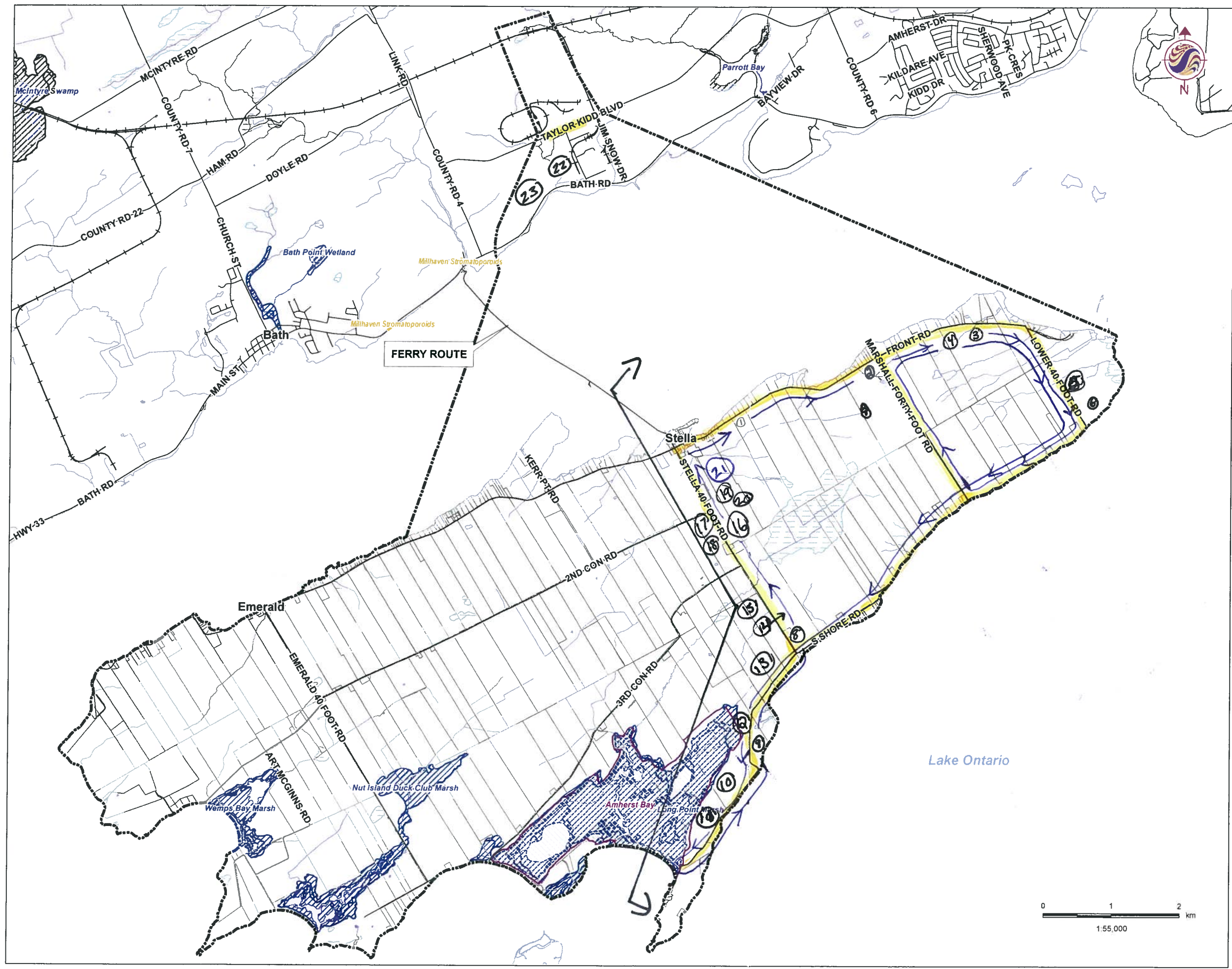
(Project Manager)

Page 2 of 3

REV: Aug 10

Form 018

EAST-MAINLANE



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
 - Property Boundaries
 - Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
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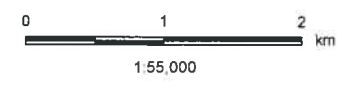
Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl & Raptor Migration
Waterfowl, Winter Raptor & Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1160960595 Project Name: Amherst Island

Date / Time: Dec 21, 2011 10:04 am
- 12:49 pm Field Personnel: C. Payette, Z. Lebrun-Sauther

Weather Conditions:	Temp: <u>3</u>	Wind: <u>3</u>	Cloud: <u>100%</u>	PPT: <u>light rain</u>	PPT in last 24 hrs: <u>rain</u>
---------------------	----------------	----------------	--------------------	------------------------	---------------------------------

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
146 ① AMKE 10:07	1	(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
147 ② NOHA 10:22	1	on post - 1m	perched
7 ③ NOHA 10:27	1	10m	Hunting
148 ④ RTHA 10:28	1	10m	hunting
149 ⑤ ALHA 10:39	1	1m	Perched
150 ⑥ SNOW 11:00	1	5m	Perched in treetop
3 ⑦ RTHA 11:01	1	0m	Perched on gravel
151 ⑧ AMKE 11:37	1	10m	Perched in tree
152 ⑨ ALHA 11:45	1	2m	perched in tree
153 ⑩ RTHA 11:47	1	10m	perched in tree
154 ⑪ AMKE 11:53	1	10m	perched on hydroline
154 ⑫ AMKE 11:59	1	10m	perched
155 ⑬ NOHA 12:13	1	0m	perched on gravel
156 ⑭ RTHA 12:17	1	10m	perched in tree
118 ⑮ NOHA 12:19	2	3m - East to west	Flew across road to east + from west
120 ⑯ RTHA 12:24	1	5m	perched in tree
157 ⑰ RTHA 12:31	1	10m	perched in tree
78 ⑱ ALHA 12:32	1	15m	perched in tree
47 ⑲ NOHA 12:33	1	10m	Perched in tree
158 ⑳ NOHA 12:37	1	2m	hunting
		1m	perched on post

Quality Control: This form is complete () & legible ()
Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Raptors (cont.)

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

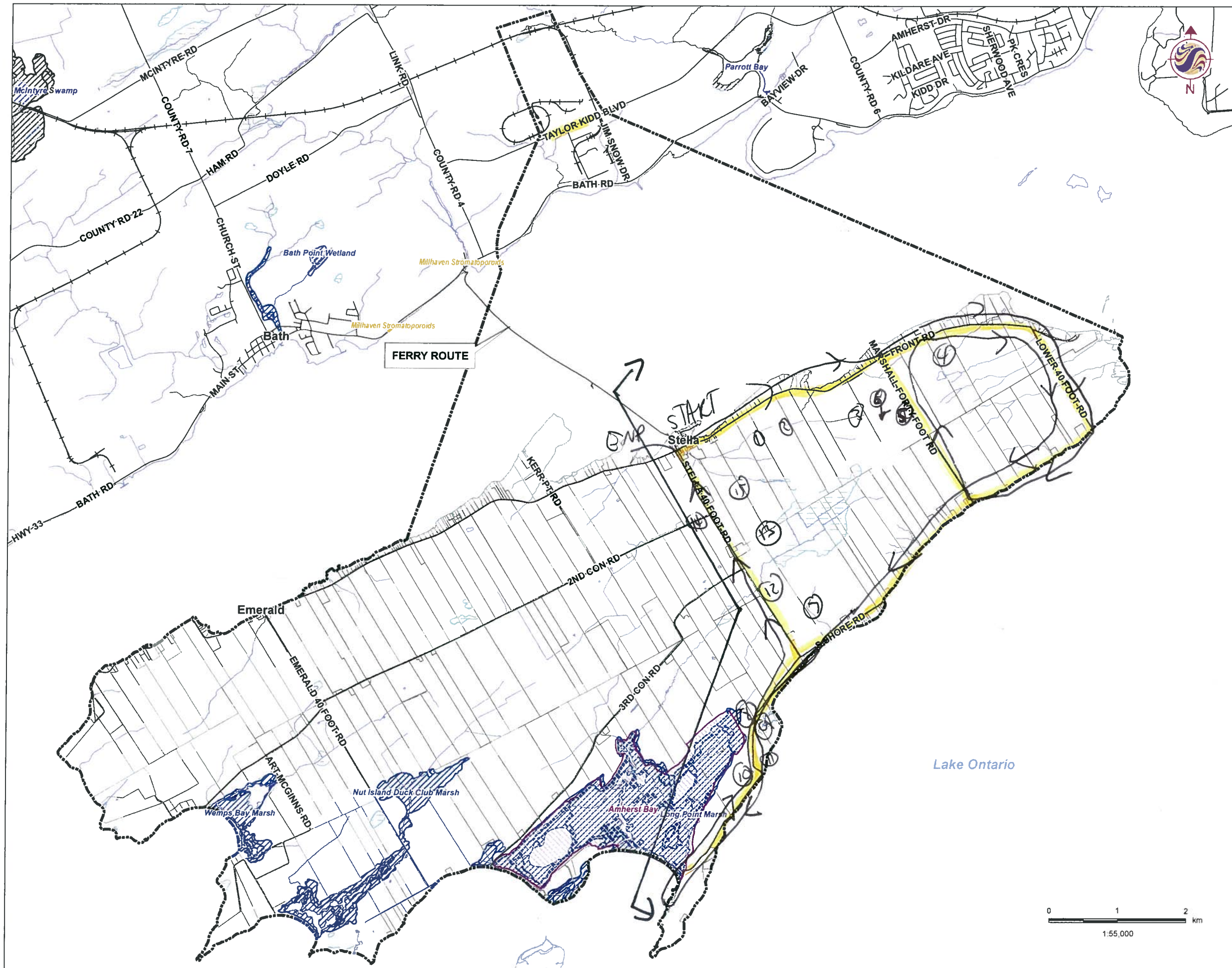
	Species	# of Individuals	Location	Behaviour
48	(20) RLHA 12:38	1	In water, agr. field near puddle, mowed lawn etc.	Height/direction of flight, feeding etc.
159	(21) RLHA 12:45	1	Top of tree - 10m low	perched perched in tall.
N/A	(22) RTMA	1	perched in trees - 10m/pasture	
N/A	(23) RTMA	1		

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

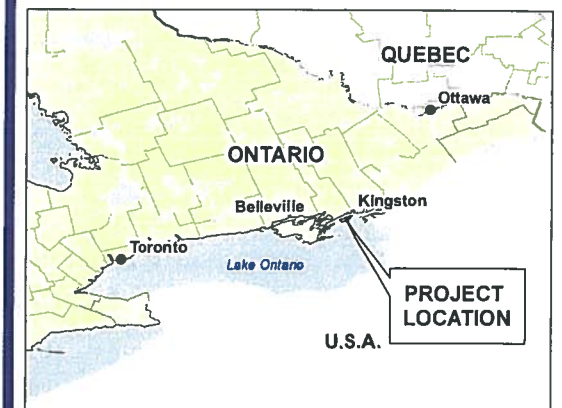
Signature: [Signature]
(Project Manager)

EAST-MAINLANE



Legend

- Project Study Area
- Road
- Railway
- Watercourse
- Waterbody
- Unevaluated Wetland
- Provincially Significant Wetland
- ANSI, Earth Science
- ANSI, Life Science
- Property Boundaries
- Wooded Area



Notes

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August 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

1

Title

Field Map - Waterfowl & Raptor Migration
Waterfowl, Winter Raptor & Short-eared Owl

10:00 - 1145



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

**Migrating Raptor
Observation Form**

Project Number: 1120960595 Project Name: Amherst Island

Date / Time: Jan 10, 12 Field Personnel: B. Holden J. Marshall

Weather Conditions:	Temp: <u>2-3 °C</u>	Wind: <u>2-3 NW</u>	Cloud: <u>10-80%</u>	PPT: <u>/</u>	PPT in last 24 hrs: <u>drizzle</u>
----------------------------	---------------------	---------------------	----------------------	---------------	------------------------------------

WA*

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
160 ① RC-1 - dark	1009	- on fence post in pasture	- 2m
161 ② RC-1 - dark	1010	- on bush in pasture	- 3m
162 ③ RC-1 -	1011	- flying over pasture	- 20m
163 ④ RT-1	1015	- perched in tree over fallow	- 20m
164 ⑤ RC-1 - light	1040	- roadside tree near pasture	- 10m
3 ⑥ NH-1 - ♀	1041	- hunting pasture	- 5m
15 ⑦ AK-1 - ♀	1101	- perched in top of bush	- 3m
155 ⑧ NH-1	1104	- circling over road	- 20m
116 ⑨ RC-1	1105	- "	- 25m
117 ⑩ NH-1	1107	- hunting pasture	- 5m
152 ⑪ SNOW-1	1126	- roosting on shale lie	- ⑩
165 ⑫ RT-1 - A	1133	- perched in tree near hay field	- 8m
166 ⑬ RC-1 - light	1136	- circling over pasture	- 40m
167 ⑭ NH-1 - ♂	1137	- hunting hay field	- 5m

Quality Control: This form is complete () & legible ()

Signature: _____ (Field Personnel)

Signature: [Signature] (Project Manager)

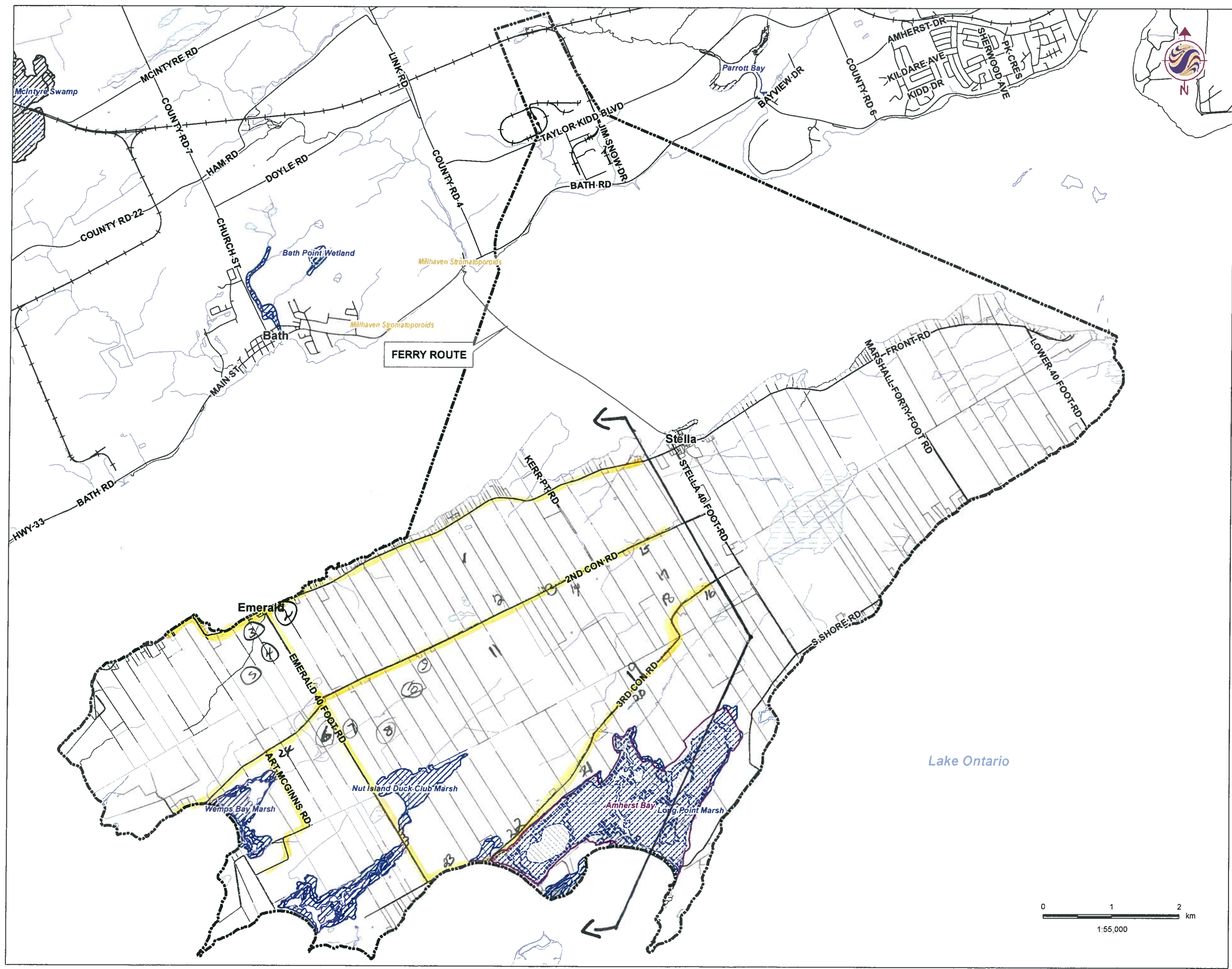
Page 1 of 1

REV: Aug 10

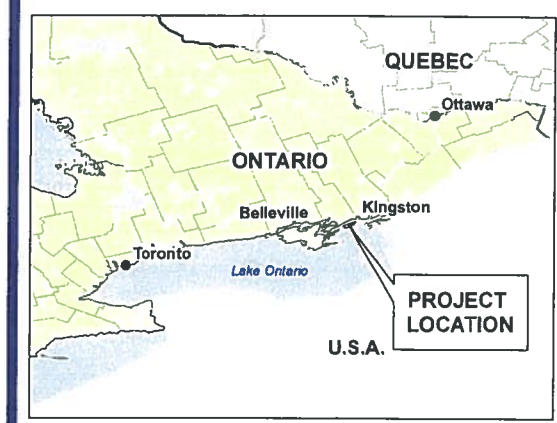
Form 018

168 ⑮ AK-1 - ♂ - 1138 - in bush in pasture - 5m

WEST



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
 - Property Boundaries
 - Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



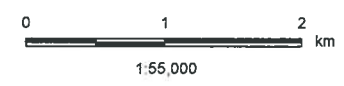
Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl, & Raptor Migration + Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1160960595

Project Name: Amherst Island

Date / Time: Jan 10, 2012
10:15 - 12:25

Field Personnel: D. Graham, M. Ross

km=39

Weather Conditions:

Temp: 4°C

Wind: 1

Cloud: 20%

PPT: None

PPT in last 24 hrs: None

	Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
169	1 RLHA 10:29	1	(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep) 3-8m below blade sweep	Foraging
59	2 AMKE 10:33	1	8m below blade-sweep	Perched
61	3 AMKE 10:42	1	8-10m below blade sweep	Perched
57	4 NOHA 10:50	3	2-20m below blade sweep	Foraging
170	5 RTHA 10:45	2	15-20 below blade sweep	Foraging
100	6 RLHA 10:00	2	5-15 below blade sweep	Foraging
171	7 RLHA 11:08	1	5m below blade sweep	Foraging
	NOHA	2	2-5m below blade sweep	Foraging
31	8 RTHA 11:08	1	25m below blade sweep	Foraging
67	9 RTHA 11:15	1	5m below	Perched
38	10 NOHA 11:15	1	3m below	Foraging
172	11 NOHA 11:25	2	3m below blade	Foraging
	RLHA 11:25	4	1-4m below blade	Perched
	RTHA 11:25	1	1m below blade	Perched

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]

(Field Personnel)

Signature: [Signature]

(Project Manager)

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

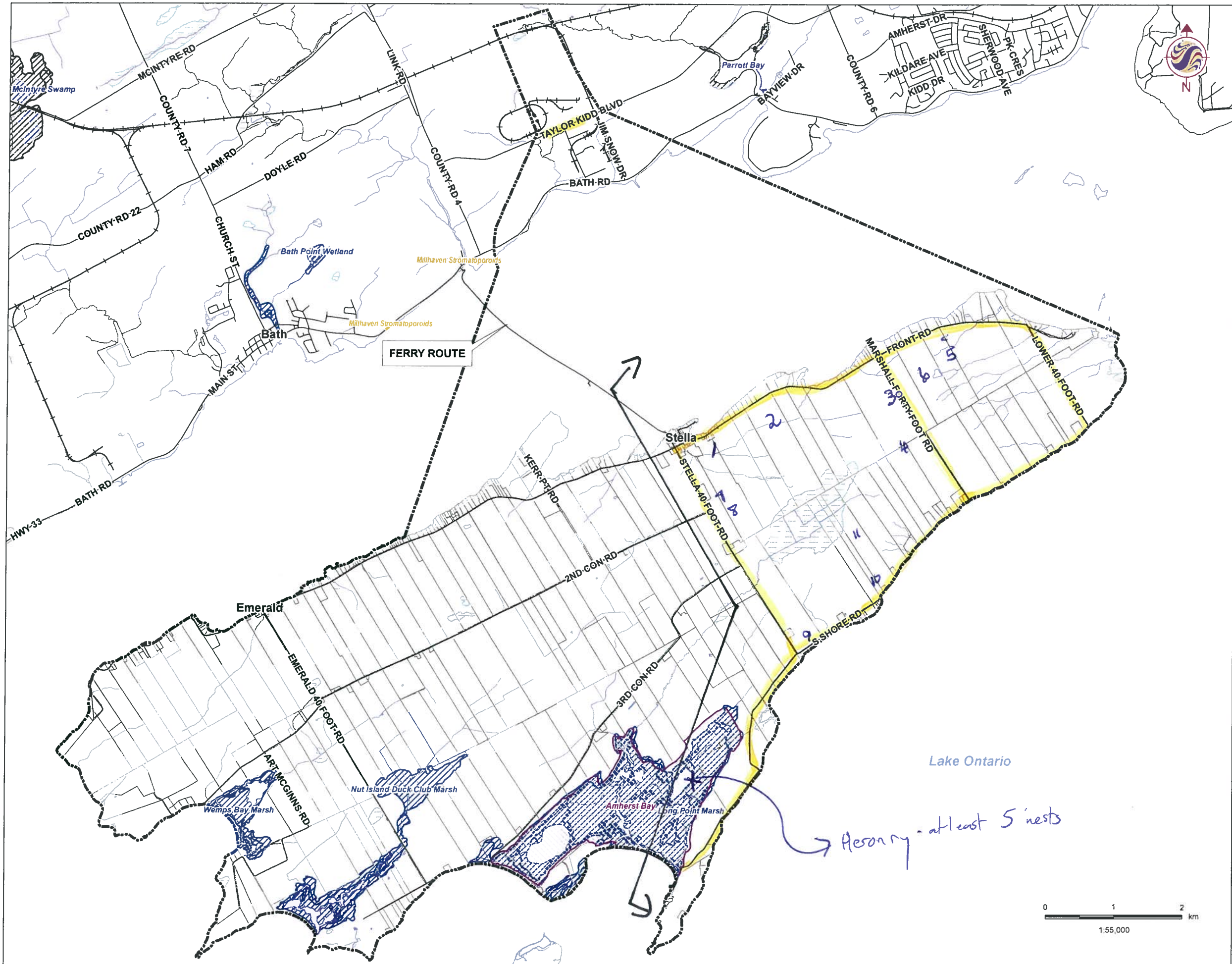
Species	# of Individuals	Location	Behaviour		
		<i>In water, agr. field near puddle, mowed lawn etc.</i>	<i>Height/direction of flight, feeding etc.</i>		
173	12	RLHA	2	5m	Foraging
174	13	RLHA	2	5-8m	1 Perched 1 Foraging
44	14	RTHA 11:36	1	8m	Perched
		NOHA 11:36	1	3m	Foraging
83	15	RTHA 11:39	1	5m	Perched
175	16	NOHA 11:42	1	5m	Foraging
176	11	RTHA 11:44	1	5m	Perched
22	18	NOHA 11:44	1	3m	Foraging
177	19	NOHA 11:52	1	2m	Foraging
92	20	RTHA 11:53	1	4m	Perched
178	21	RLHA 11:57	1	5m	Perched
		NOHA 11:58	1	3m	Foraging
94	22	CORA 12:02	1	8m	Flying
96	23	RLHA 12:04	1	15-20m	Foraging
100 after survey	24	NOBH 12:32	1	4m	Perched

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

EAST-MAINLANE



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
 - Property Boundaries
 - Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
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Stantec August 1 2011 160960595

Client/Project
 WINDLECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
 1

Title
 Field Map - Waterfowl & Raptor Migration
 Waterfowl, Winter Raptor & Short-eared Owl



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

**Migrating Raptor
Observation Form**

Project Number: 1160960595 Project Name: Amherst Island

Date / Time: Jan 24 2012 Field Personnel: D. Graham, M. Ross
1:15 - 2:46

Weather Conditions:	Temp: <u>1°C</u>	Wind: <u>2</u>	Cloud: <u>100%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>Rain</u>
----------------------------	------------------	----------------	--------------------	---------------	---------------------------------

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
RLHA 1:17	1	(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep) 3 m, below blade sweep	Foraging
RLHA 1:21	1	8 m, below blade sweep	Foraging
NOHA 1:21	1	1.5m	Perched on post
SNOW 1:21	1	1.5m	Perched on post
NOHA 1:28	1	6m	Perched in tree
SNOW 1:29	1	0m	Perched on ground in field
NOHA 1:32	1	2m	Foraging
RTHA 1:55	3	15m, below blade sweep	Soaring over woods
RLHA 1:59	1	15m	Perched in tree
RTHA 2:06	1	5m	Perched in tree
RLHA 2:10	1	1.5m	Perched on post
AMKE 2:11	1	5m, flying west	Foraging
AMKE 2:17	1	5m	Perched on wire
SNOW 2:42	1	0m	Perched on ground
NOHA 2:42	1	10 m, flying west	Foraging

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

WEST



Legend

- Project Study Area
- Road
- Railway
- Watercourse
- Waterbody
- Unevaluated Wetland
- Provincially Significant Wetland
- ANSI, Earth Science
- ANSI, Life Science
- Property Boundaries
- Wooded Area



Notes

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August 2011
160960595

Client/Project
 WINDLECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
 1

Title
 Field Map - Waterfowl, ^{Winter} & Raptor Migration + Short-eared Owl



1:10pm



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter
~~Migrating~~ Raptor
Observation Form

Project Number: 1160960595

Project Name: Amherst Island

Date / Time: Jan 24, 12

Field Personnel: B. Holden J. Mansell

Weather Conditions:

Temp: 0

Wind: 4-5-W

Cloud: 100 low

PPT: /

PPT in last 24 hrs: RAIN

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
183 ① 1322	RLHA-1-light	- hunting pasture on wing - 20m	
184 ② 1324	RLHA-1-light	- perched on fence post - 2m	
N/A ③ 1350	NH-1-	- perched on ground - ⊗	
38 ④ 1355	RL-2-light	- hunting pasture - 5m	
125 ⑤ 1355	RL-1-dark	- " - 10m	
185 ⑥ 1357	RT-1-Ad	- on post / pasture - 5m	
⑦ 1358	RL-2	- hunting pasture - 15m	
172 ⑧ 1402	RLHA	- 8 individuals hunting pasture - 20m	
70 ⑨ 1405	RL-1-dark	- hunting pasture - 8m	
n/a ⑩ 1406	RT-1	- perched on rock / pasture - 2m	
73 ⑪ 1407	RL-1	- hunting pasture - 10m	
132 ⑫ 1410	NH-1-♂	- hunting bay - 5m	
186 ⑬ 1411	RL-1-	- flew SW - 1-3am	
187 ⑭ 1414	AK-1-	- on roadside pole - 5m	
21 ⑮ 1417	SNOW-1-	- roosting on fencepost - 2m	

Quality Control: This form is complete () & legible ()

Signature: _____

(Field Personnel)

Signature: Kentone

(Project Manager)

~~Other Bird Species~~

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

Species	# of Individuals	Location	Behaviour
		<i>In water, agr. field near puddle, mowed lawn etc.</i>	<i>Height/direction of flight, feeding etc.</i>
88 (16) RC - 1	1420	perched in high tree	10m
90 (17) NH - 1-Ad ♀	1423	hunting fallow	5m
24 (18) RT - 1-Ad	1425	perched on tele-wire	5m
188 (19) NH - 1-Ad ♀	1429	hunting hayfield	5m
95 (20) RT - 1-Ad	1434	on tele-wire	5m
98 (21) NH - R	1435	hunting way	10m
30 (22) RT - 1-Ad	1436	flew over road	15m
189 (23) NH - 1	1440	on haybail	5m
190 (24) RT - 1-Sub	1443	in roadside tree	15m
171 (25) NH - 1-II	1444	perched in field	0m (pasture)
36 (26) RC - 1-Light	1446	hunting pasture	40m
n/a (27) AK - 1	on wire with prey	1505	10m

Quality Control: This form is complete (✓) & legible (✓).

Signature: [Signature]
(Field Personnel)

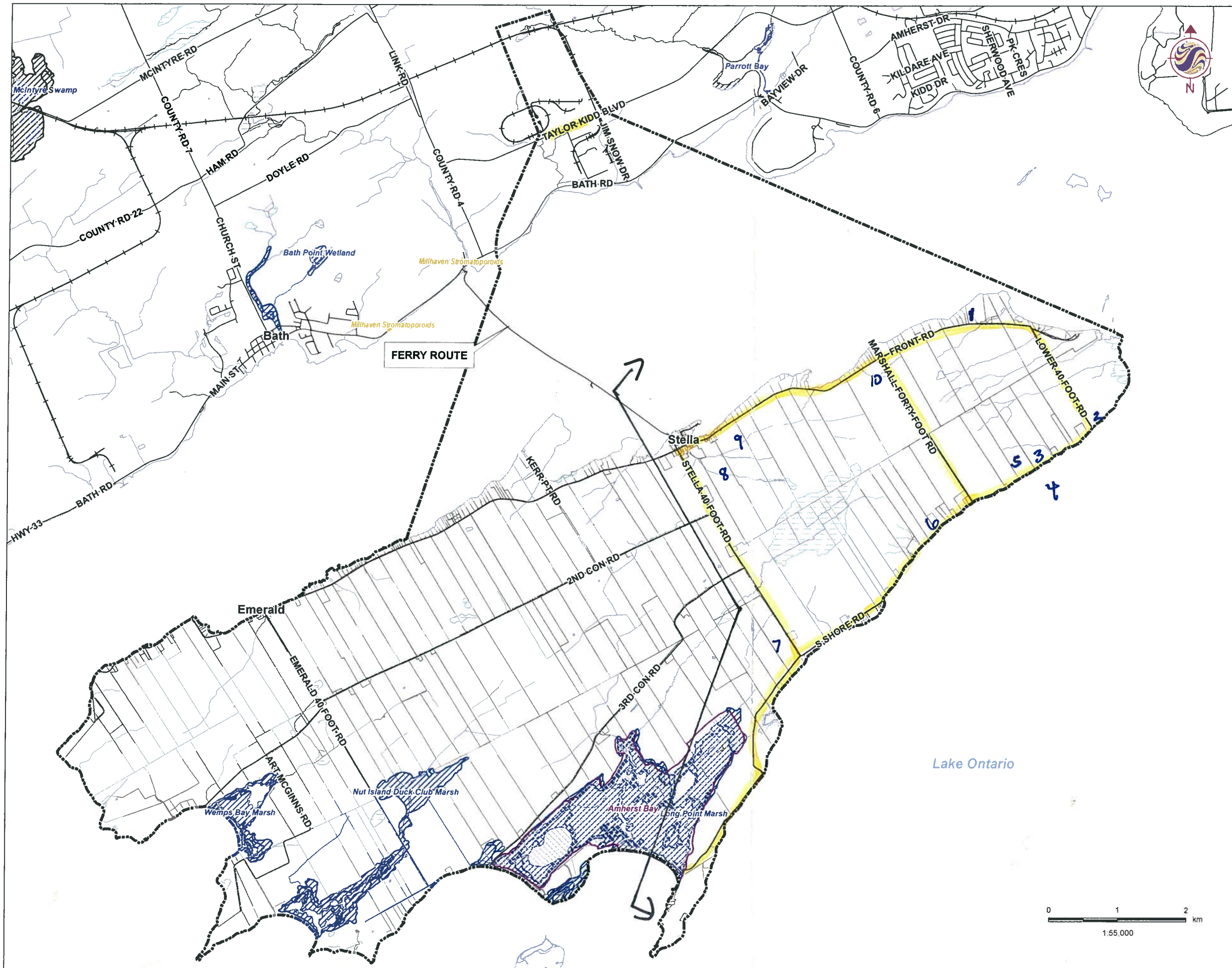
Signature: [Signature]
(Project Manager)

Page 2 of 2

REV: Aug 10

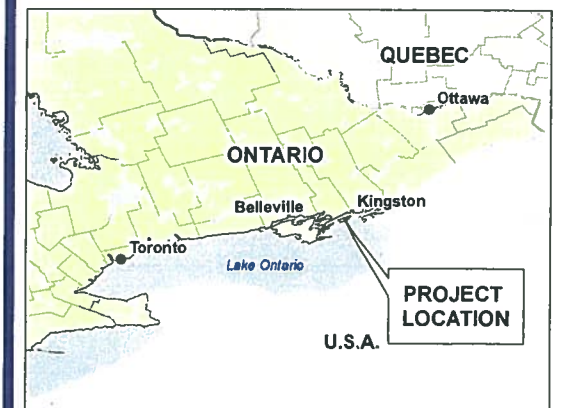
Form 018

EAST-MAINLAND



Legend

- Project Study Area
- Road
- Railway
- Watercourse
- Waterbody
- Unevaluated Wetland
- Provincially Significant Wetland
- ANSI, Earth Science
- ANSI, Life Science
- Property Boundaries
- Wooded Area



Notes

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August 2011
160960595

Client/Project

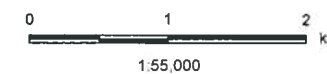
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

1

Title

Field Map - Waterfowl & Raptor Migration
Waterfowl, Winter Raptor & Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1120960595

Project Name: Amherst Island

Date / Time: Feb 7, 2012

Field Personnel: D. Graham, C. Kospijaakko

Weather Conditions:	Temp: <u>-2C</u>	Wind: <u>1</u>	Cloud: <u>80% - 50%</u>	PPT: <u>None</u>	PPT in last 24 hrs: <u>None</u>
---------------------	------------------	----------------	-------------------------	------------------	---------------------------------

10⁵² - 12⁵⁸

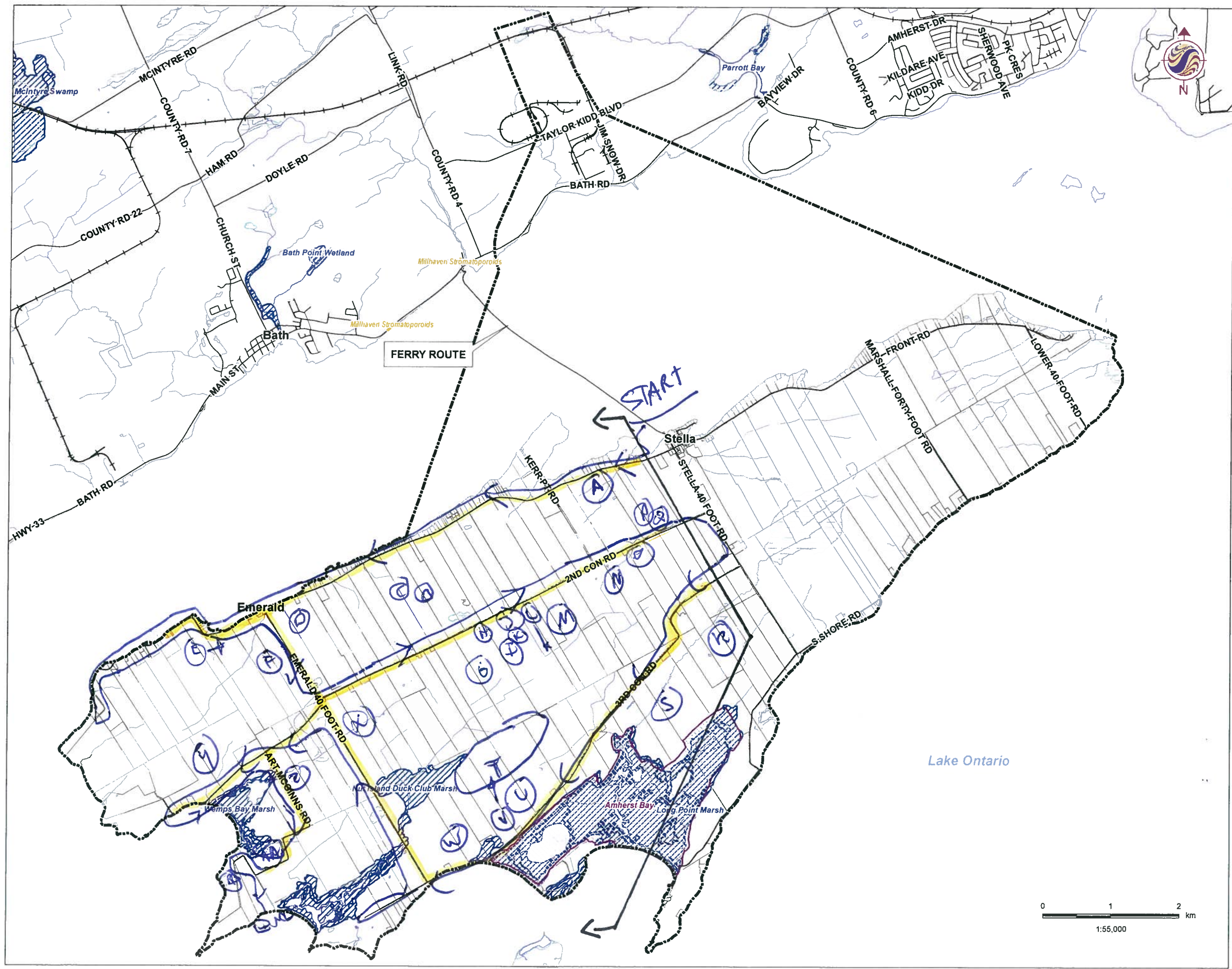
	Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
191	1 RTHA 11 ⁰³	1	15-20m East (below blade sweep)	Foraging
11	2 SNOW 11 ¹²	1	Below blade sweep	Perched on shed
192	3 SNOW 11 ²¹	2	0-2m	1 Perched on ground 1 Perched on post
193	4 BAEA 11 ²⁴ imm.	1	25m	South of island by 0.5 km
194	5 NOHA 11 ²⁵ RTHA	3 1	10-15m 15m	Foraging. Not moving in 1 direction Foraging, not moving in 1 direction
195	6 SNOW 11 ³⁵ NOHA RLHA AMKE	1 1 1 1	0m 5-15m 15-20m 8m	Perched on ground Chasing starling flock! Soaring
196	7 RTHA 12 ¹⁵	1	10m	perched on wire Perched in tree top
159	8 RLHA 12 ³⁰	1	15m	Foraging
197	9 RLHA 12 ³⁵	2	30m. In blade height	Foraging.
115	10 RLHA 12 ⁴⁰ NOHA 12 ⁴⁰	1 1	15m Below blade height 5m Flying west	Foraging Foraging

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

WEST



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
 - Property Boundaries
 - Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



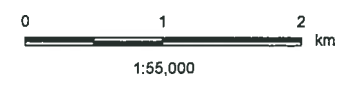
Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl & Raptor Migration + *Winter Short-eared Owl*





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1160960595

Project Name: Amherst Island

Date / Time: February 7 / 2012

Field Personnel: J. Marshall + B. Hadden

Weather Conditions:	Temp: <u>-2 to +2</u>	Wind: <u>E 15 km/h</u>	Cloud: <u>90% - 30%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
---------------------	-----------------------	------------------------	-------------------------	---------------	------------------------------

Yes -
N - 20 km

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
			(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)
198 (A) NCHA-1-♂	1055	- hunting	faller grass - 10m
199 (B) " -1-♀	1102	- hunting	pasture - 10m
200 (C) RCHA-1-Light	1103	- "	" " - 10m
201 (D) NCHA-1-♂	1108	- "	" " - 10m
202 (E) RCHA-1-Light-Ad	1120	- flew	E over pasture - 4m
203 (F) RCHA (2) Lights	1149	- perched / hunting	over tall pasture - 15m
204 (G) RCHA-2-Lights	1156	- perched on fence posts	in pasture - 5m
68 (H) NH-2-♀'s	1158	- hunting	pasture - 10m
172 (I) RC-2-Light	1159	- "	" " - 15m
40 (J) RL-2-dark	1200	- "	" " - 5m
69 (K) AR-1	1201	- on wire	over pasture - 10m
72 (L) RT-2-Ad's	1202	- flew	S over pasture - 50m
42 (M) RT-2 RC-2		- All hunting	Pasture - 10m

Quality Control: This form is complete & legible

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Cent'd

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

CW
MAP

	Species	# of Individuals	Location	Behaviour
45	RL-1-dark	1209	probed on dirt	0m
83	RT-1-Ad	1211	on edge of woodlot	8m
205	RL-1-dark	1212	hunting hay	35m
206	SNOW-1	1215	roosting in hayfield	⊗
196	RTHA-1	1230	flying over woods	fern
207	" "	1235	" "	" 50m
208	RLHA-9 RTHA-3	1240	flying over pasture	80m
209	RUHA-3	1243	hunting pasture	10m
210	PEPA-1	1245	flur	100m
211	BAGA-1 (304) RT-1 RL-3	1252	kettling high	600m
Some 171 near 171	AH-3	1302	on ground in pasture	⊗
171	RL-1-dark	1304	kettling	100m
171	RL-1-light	1305	hunting pasture	15m
212	RTHA-2-Ad	1312	kettling	300m
32	RT-2-Ad	1319	"	150m

Quality Control: This form is complete () & legible ()

Signature: _____

(Field Personnel)

Signature: _____

(Project Manager)

Page 2 of _____

REV: Aug 10

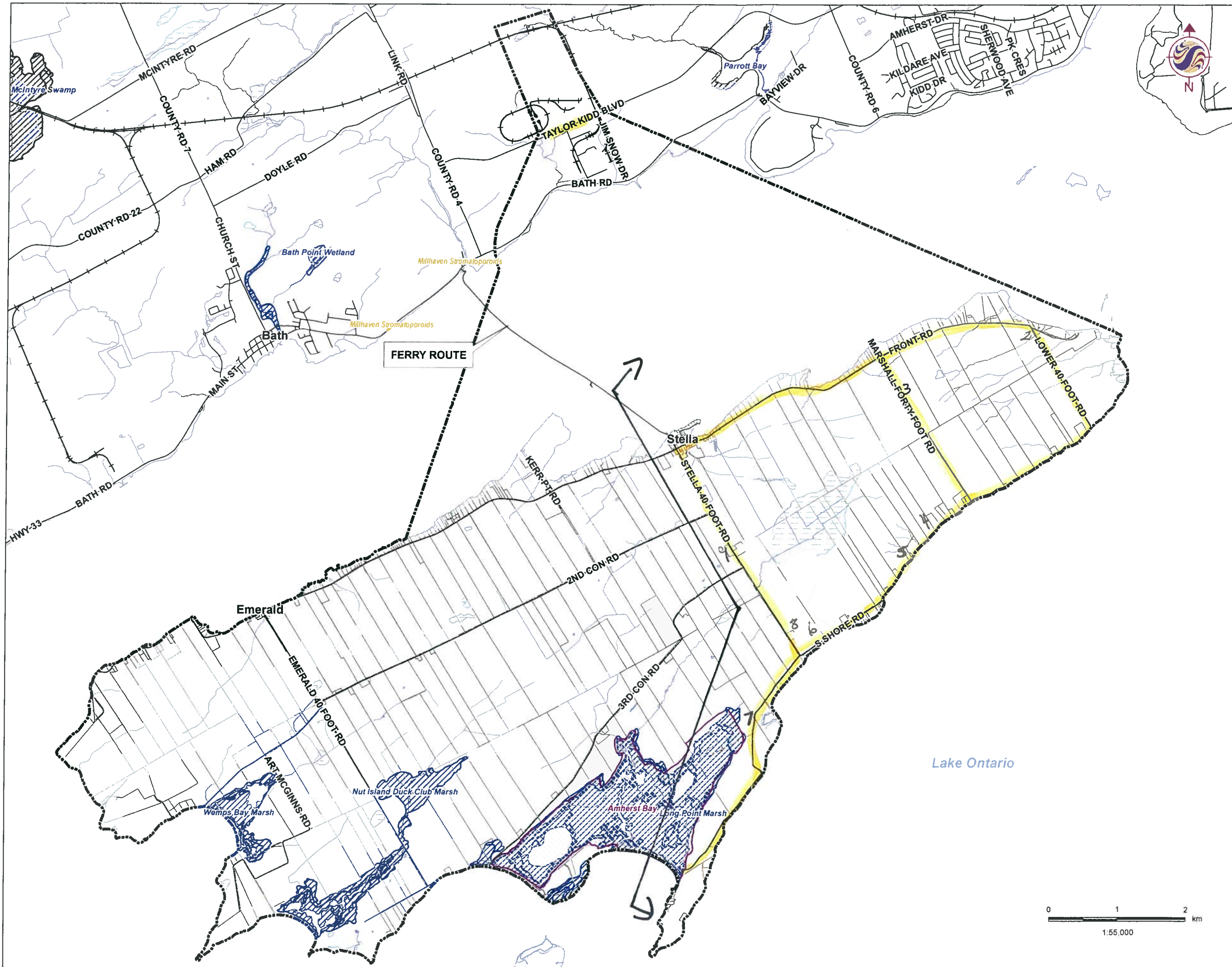
Form 018

32 ⊗ RL-2-dark's - 1320 - " - 100m

33 ⊗ RT-2-Ad (Dove) - 1374 - 700 - 100m

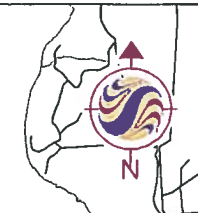
34
⊗ BB
AAAKE-1
1326
hunting
hay
-10m

EAST-MAIN LANI



Legend

- Project Study Area
- Road
- Railway
- Watercourse
- Waterbody
- Unevaluated Wetland
- Provincially Significant Wetland
- ANSI, Earth Science
- ANSI, Life Science
- Property Boundaries
- Wooded Area



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



Stantec

August 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

1

Title

Field Map - Waterfowl & Raptor Migration
Waterfowl, Winter Raptor & Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 1100960595

Project Name: Amherst Island

Date / Time: Feb 22 2012
10⁵⁰ - 12¹⁵

Field Personnel: D. Graham
C. Korpisakky

Weather Conditions:

Temp:

Wind:

Cloud:

PPT: Rain

PPT in last 24 hrs:

5°C

2

100%

Snow

Snow

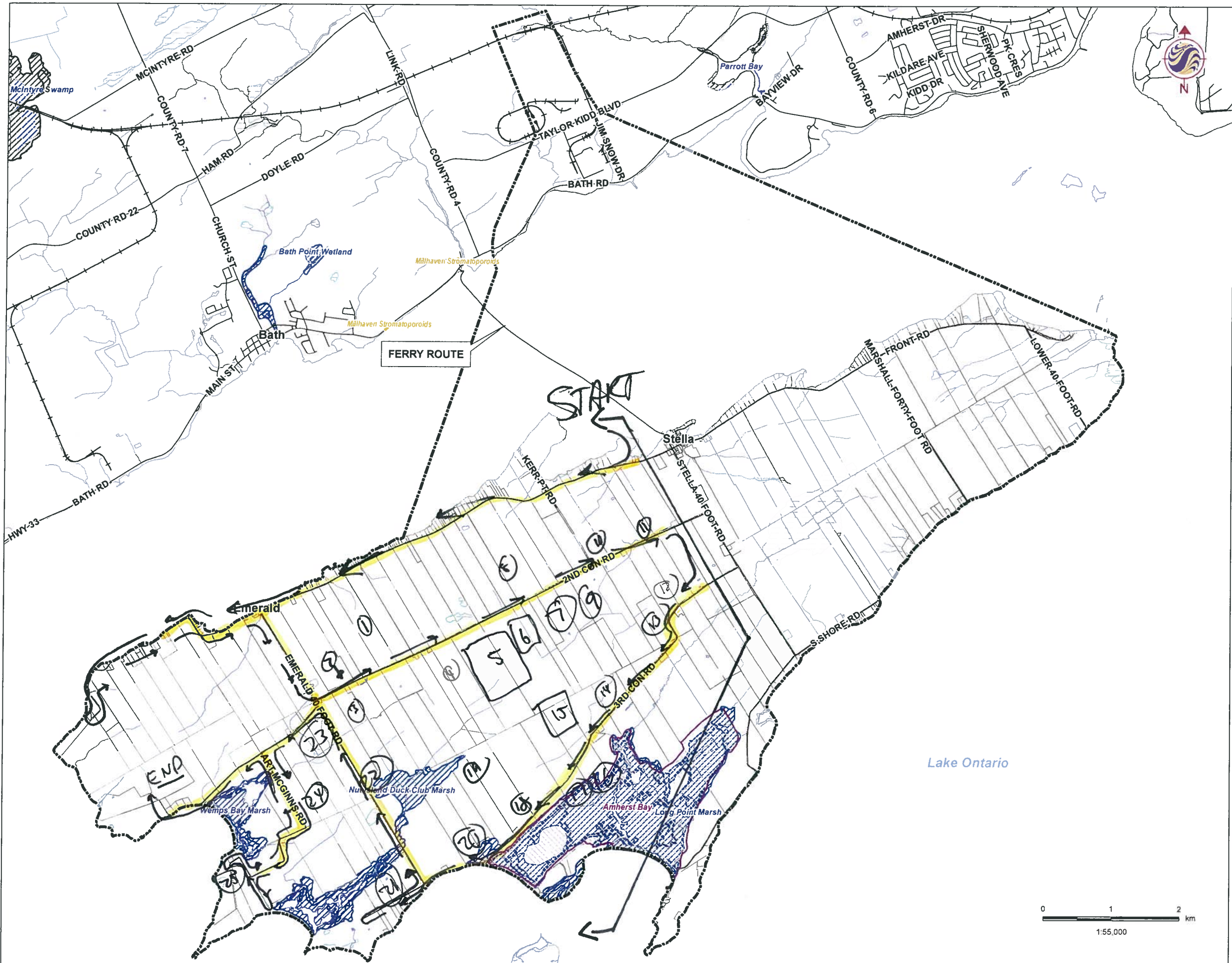
Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
111 1 RLHA 10 ⁵⁵	2	3m or 8m. Below blade sweep	Foraging over field.
	1	1m	Perched on fence post
213 2 AMKE 11 ⁰⁸	1	2m	Foraging over fence
214 3 NOSH 11 ¹⁵	1	3m	Perched in hedgerow
195 4 SNOW 11 ²⁵	1	8m	Perched on telephone pole
	1	6m	Perched on telephone wire
	1	8m	Perched in tree
215 5 SNOW 11 ³⁰	1	1m	Perched on fence post
216 6 RTHA 11 ⁴⁰	1	6m	Perched in tree
155 7 NOHA 12 ⁰⁰	2	2m flying west	Foraging over pasture
217 8 AMKE 12 ⁰⁵	1	1m	Perched on post in pasture
218 9 SNOW 12 ¹⁰	1	0m	Perched on ground in pasture

Quality Control: This form is complete () & legible ()

Signature: Don Graham
(Field Personnel)

Signature: Kerrie Smith
(Project Manager)

WEST



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
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 - Wooded Area



- Notes**
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 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.

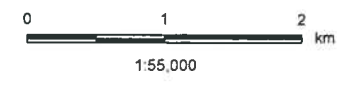


August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl, & Winter Migration + Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

1045-1130

Migrating Raptor Observation Form

Project Number: 160960595

Project Name: Amherst Island

Date / Time: Feb 22, 12

Field Personnel: B. Holden J. Mansell

Weather Conditions:	Temp: <u>3-1°C</u>	Wind: <u>4-5 w</u>	Cloud: <u>100-200%</u>	PPT: <u>Some</u>	PPT in last 24 hrs: <u>Snow/Rain</u>
---------------------	--------------------	--------------------	------------------------	------------------	--------------------------------------

squall like precip.

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
219 1055 ① RLHA	1 - hover	(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep) hunting pasture - 75m	
220 1144 ② " - light	1 - flying	S. over woods - 10m	
63 1147 ③ " - dark	1 - hover	hunting pasture - 35m	
221 1149 ④ " - dark	1 - "	" " - 20m	
39 1155 ⑤ RLHA - 8 RTHA - 3	7 hunting	community pasture	5-25m
70 1155 ⑥ RTHA - 1 RLHA - 2	7 "	" "	40m
73 1158 ⑦ RLHA - 3	7 "	" "	40m
222 1159 ⑧ RLHA - 1	- probed in tree/hay	- 10m	
34 1201 ⑨ RTHA - 1 RLHA - 1	7 hunting	pasture - 20m	
15 1202 ⑩ RTHA - 1	1 - flew into woodlot	- 15m	
206 ⑪ snow - 1	- roosting in hay field	-	

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 2

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

Species	# of Individuals	Location	Behaviour
		<i>In water, agr. field near puddle, mowed lawn etc.</i>	<i>Height/direction of flight, feeding etc.</i>
121216 (12)	RTAA-1	perched on post / hay	- 5m
171218 (13)	RC - 1	hover hunting hay	- 40m
271221 (14)	NH - 1	Juv - hunting hay	- 5m
281223 (15)	RC - 4 NH - 2	hunting over fallow on wing	- 40m
231225 (16)	NH - 6	interacting together over marsh	- 30m
781226 (17)	RC - 1	hunting marsh edge	- 20m
1091228 (18)	- SNOW - 1	roosting on farm equip	- 2m
1081229 (19)	- RT - 1	flying over woodlot	- 40m
241233 (20)	- NH - 3 RC - 1	hunting hay on the wing	- 10m
301236 (21)	NH - 1	feeding in hayfield	
1901243 (22)	RSHA - 1 (Juv)	flew through woods	- 15m
1011246 (23)	RC - 1	hover hunting pasture	- 20m
2251302 (24)	RT - 2	Ad - circling over woodlot	- 50m
341307 (25)	NH - 1	feeding in pasture	- 10m
341308 (26)	RC - 1	flew over pasture	- 20m

Quality Control: This form is complete (✓) & legible (✓)

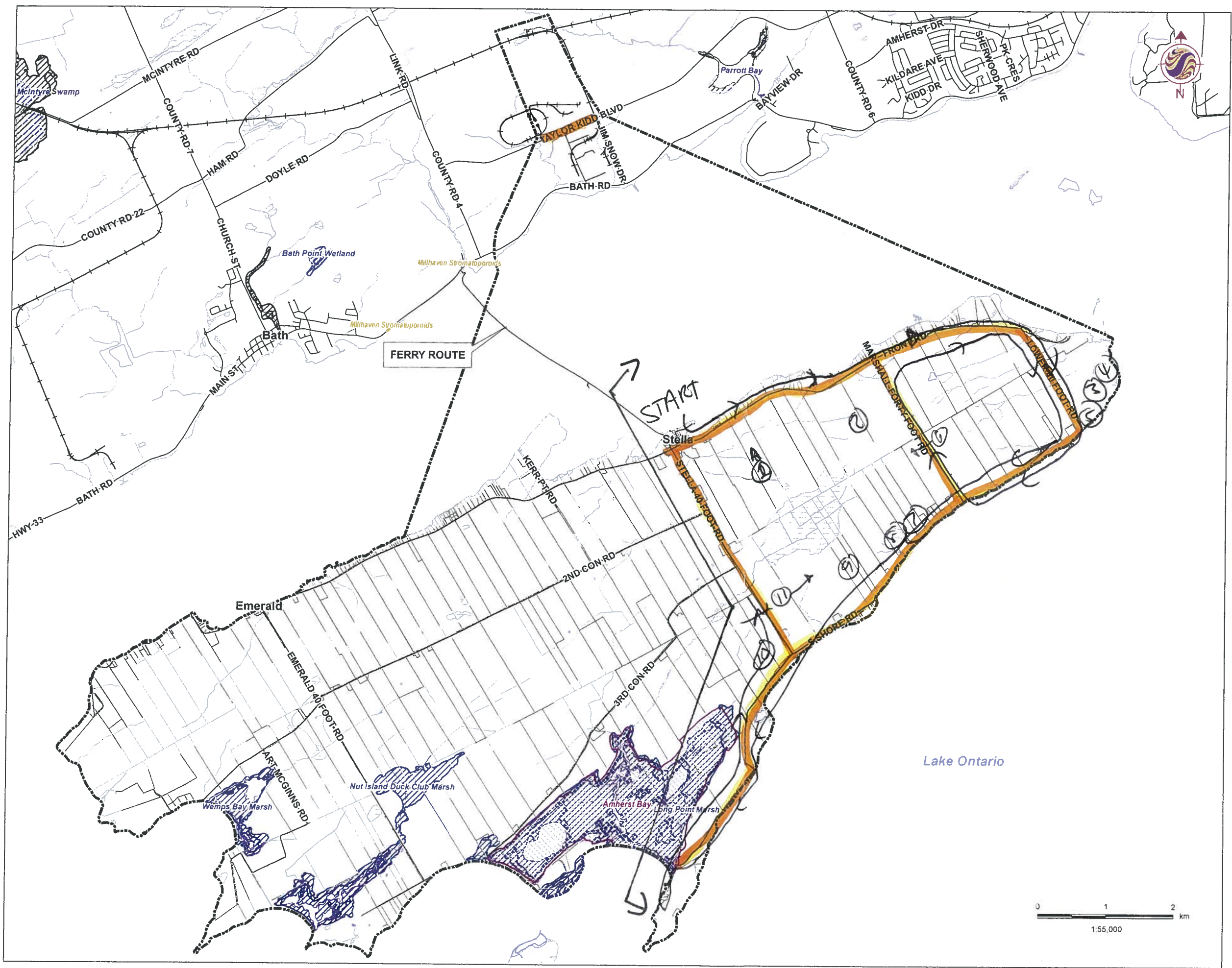
Signature: _____

(Field Personnel)

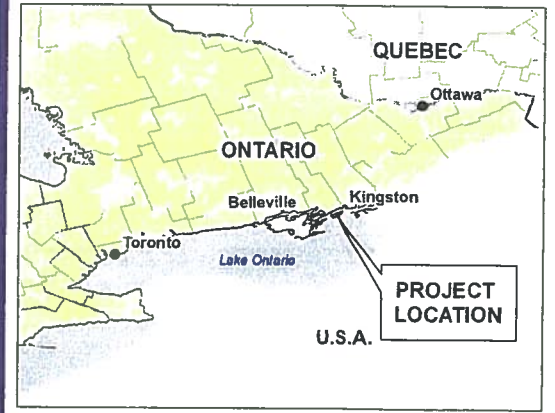
Signature: _____

(Project Manager)

EAST-
MAINLAN.



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
 - Property Boundaries
 - Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



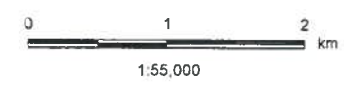
Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl & Raptor Migration
Waterfowl, Winter Raptor & Sharp-shinned Owl



1030-



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 160960595

Project Name: Amherst

Date / Time: Mar 7, 12

Field Personnel: B. Holden J. Mansell

Weather Conditions:	Temp: <u>7°C - 10°C</u>	Wind: <u>4-5-SSW</u>	Cloud: <u>Light haze</u>	PPT: <u>/</u>	PPT in last 24 hrs: <u>/</u>
---------------------	-------------------------	----------------------	--------------------------	---------------	------------------------------

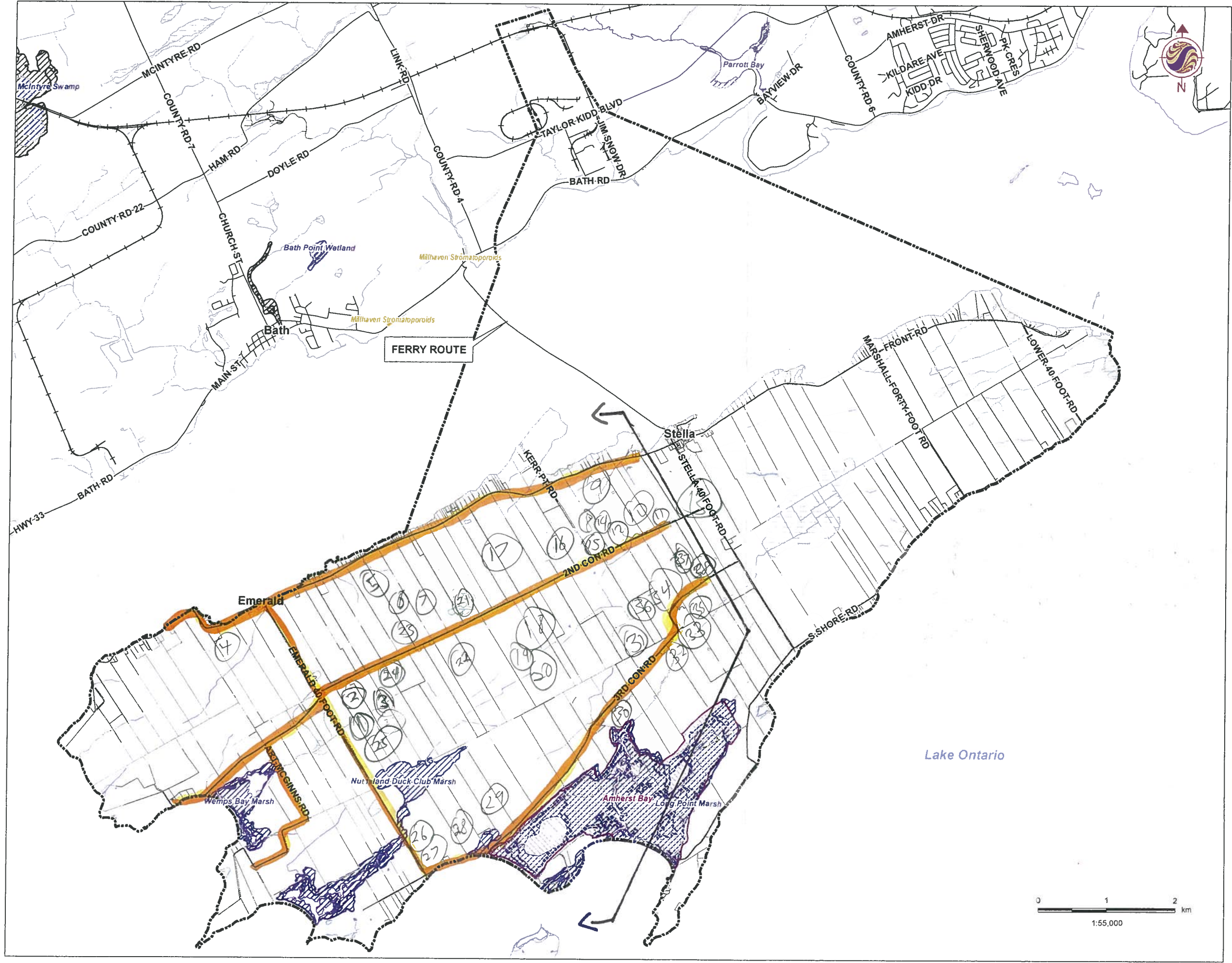
Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
			(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)
226 ① RCHA - 2	- dark ⁺	1057	- hunting pasture - 15m
2 ② "	- 1 - light	1102	- lower hunting pasture - 40m
150 ③ "	- 1 - dark	1112	- hunting pasture - 20m
112 ④ RTHA - 1	-	1114	- perched in tree / pasture - 7m
11 ⑤ SNOW - 2	-	1116	- roosting on pasture
227 ⑥ RTHA - 1	- Ad -	1130	- flew E over road / fallow - 15m
195 ⑦ AMKE - 1	- ♀ -	1141	- on wire / hay - 10m
228 ⑧ SNOW - 1	- ♂ -	1150	- on tele pole over hay - 10m
229 ⑨ SNOW - 1	- ♀ -	1154	- perched on fencepost - / Pasture - 2m
156 ⑩ AMKE - 1	-	1158	- lower hunting pasture - 10m
230 ⑪ RTHA - 1	- Ad -	1225	- flew E over rd. - 10m

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

WEST



- Legend**
- Project Study Area
 - Road
 - Railway
 - Watercourse
 - Waterbody
 - Unevaluated Wetland
 - Provincially Significant Wetland
 - ANSI, Earth Science
 - ANSI, Life Science
 - Property Boundaries
 - Wooded Area



- Notes**
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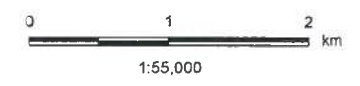
Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title
Field Map - Waterfowl, & Raptor Migration + Short-eared Owl





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Observation Form

Project Number: 160960595 Project Name: Amherst
Date / Time: Mar 7, 2012 14:35-17:35 Field Personnel: ART / NICK

Weather Conditions: Temp: 12°C Wind: 3 Cloud: 20% PPT: / PPT in last 24 hrs: / Ave. Snow Depth: 0

total km driven on survey

Species / Time	# of Individuals	Location	Behaviour
171 ① RLHA 14:35	1	Habitat type, proximity to features (woodlands, ravines etc.) - Pasture	Perched, Hunting, flying, height - flying / hunting upto 5m high
65 ② RTHA 14:40	x1	- Pasture	- perched on fence post ~ 1m high
231 ③ RLHA 14:42	x1	- Pasture	- flying ~ 50m high
232 ④ RLHA 14:52	x1	- fallow / pasture	- flying / soaring ~ 60m high
183 ⑤ RLHA 15:03	x2	- Hay	- flying ~ 60m high
200 ⑥ SNOW 15:04	x1	- Hay	- perched on ground.
199 ⑦ RLHA 15:05	x1	- Hay / woodlot	- perched in tree ~ 5m high
75 ⑧ CO HA 15:08	x1	- woodlot	- flying 10m high
198 ⑨ RTHA 15:21	x2	- woodlot	- pair mating
71 ⑩ NO HA 15:29	x2 (♀ + ♂)	- Hay	- flying / hunting 1-2m high
167 ⑪ MERL 15:42	x1	- Hay	- perched on post ~ 1m high
80 ⑫ RTHA 15:42	x1	- Hay	- perched in tree ~ 10m high
			- flying 30m high

Quality Control: This form is complete () & legible ().

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

	Species	# of Individuals	Location	Behaviour
167	(13) AMKLE 15:48	x1	- Hay	- perched in tree ~ 5m high
76	(14) RLHA 15:22	x1	- Hay	- perched in shrub ~ 2m high
233	(15) RTHA 16:01	x1	- Hay / woodlot	- perched on edge of woodlot ~ 5m high
77	(16) RTHA 16:08	x1	- Hay	- flying ~ 30m high
222	(17) RLHA 16:15	x2	- Hay	- perched in hawthorn ~ 2m
71	(18) RTHA 16:18	x2	- pasture	- perched in tree and shrub 2-10m high
41	(19) NOHA 16:20	x1 (♀)	- pasture	- flying low ~ 1m high
31	(20) RLHA 16:21	x1 + 1	- Pasture	- perched on fence post ~ 1m high and on grass
129	(21) RLHA 16:26	x1	- Hay	- flying 30m high
68	(22) AMKLE 16:27	x1	- Pasture	- flying 30m high
234	(23) RLHA 16:30	x1	- Hay	- perched in hedgerow ~ 5m
37	(24) NOHA 16:34	x1 (♀)	- pasture	- perched on ground
235	(25) SEOW 16:45	x8	- pasture	- perched / flies up to 10m high
189	(26) NOHA 16:57	x3 (2♂ + ♀)	- Hay	- flying 15m high
96	(27) RLHA 16:59	x2	- Hay	- perched in hedgerow ~ 10m high
211	(28) unidentified 17:06	x1	- CUW	- perched in tree ~ 5m high
210	(29) SNOW 17:08	x1	- Hay	- perched on fence post
	NOHA	x1	"	- flying 2m high / 1m high

Quality Control: This form is complete () & legible ().

Signature: _____

(Field Personnel)

Signature: 

(Project Manager)

Page ____ of ____

REV: May, 07

Form 018

	Species	# of Individuals	Location	Behaviour
236	(30) RLHA 17:13	x1	- Hay / fallow	- perched in tree ~ 10m high
23	(31) RTAA 17:16	x1	- Hay	- perched in tree 10m high, took off towards woodlot
138	(32) AMKE 17:17	x2	- lawn / woodlot	- perched on hydro pole ~ 7m high
89	(33) RTAA 17:18	x2	- Hay	- perched in tree ~ 5m high
22	(34) NOHA 17:18	x1	- Hay	- flying ~ 5m high
21	(35) SEOW 17:20	x1	- Hay	- perched in tree ~ 5m high
88	(36) SEOW 17:22	x7	- fallow / Hay	- flying up to 5m
187	(37) AMKE 17:28	x1	- Hay	- perched on hydro pole ~ 7m high
137	(38) AMKE 17:31	x1	- Hay	- flew, landing on hydro pole ~ 7m high

Quality Control: This form is complete () & legible ().

Signature: [Signature]
(Field Personnel)

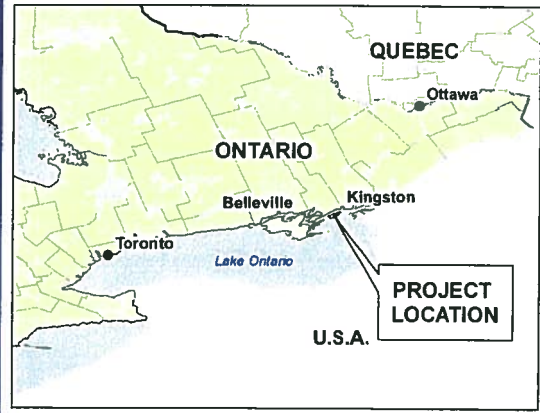
Signature: [Signature]
(Project Manager)

WEST



Legend

- Project Study Area
- Road
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- ANSI, Life Science
- Property Boundaries
- Wooded Area



Notes

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2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



Stantec

August 2011
160960595

Client/Project
 WINDLECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
 1

Title
 Field Map - Waterfowl, & Raptor Migration + Short-eared Owl





Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Migrating Raptor Observation Form

Project Number: 1160960595 Project Name: Amherst Island

Date / Time: 20 Mar 2012 / Start 10:45 Field Personnel: Marsell + Katsijookko

Weather Conditions:	Temp: <u>18°C</u>	Wind: <u>low</u>	Cloud: <u>0% (haze)</u>	PPT: <u>n/a</u>	PPT in last 24 hrs: <u>n/a</u>
----------------------------	-------------------	------------------	-------------------------	-----------------	--------------------------------

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
		(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)	
① RLHA	1	in blade sweep	
② RLHA	2		
③ RLHA	2	WABS → circling	
④ NOHA raptor sp.	1	circling (IBS sweep)	
	1	" "	
⑤ ZTHA	1	perched in tree	
⑥ NOHA	1	perched on fence post	near road
Buteo sp.	1	perched ~100m S of road	in tree
⑦ NOHA	1	landed on ground	
⑧ TWU	1	circling (IBS)	
RLHA	1	circling (IBS)	
⑨ RTHA	1	perched in roadside tree	
RLHA	1	" " " "	
⑩ RLHA	1	circling (IBS)	
RLHA	1	" "	
⑪ RLHA	1	perched in tree	
⑫ TWU	1	circling (ABS)	
⑬ RLHA	2	perched in tree	
⑭ RLHA	1	perched in tree	

Quality Control: This form is complete & legible

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 1

REV: Aug 10

Form 018

Other Bird Species

Please record any flock behaviour (i.e. snow gulls, waterfowl, crows, blackbirds) or any significant species.

Species	# of Individuals	Location	Behaviour
		<i>In water, agr. field near puddle, mowed lawn etc.</i>	<i>Height/direction of flight, feeding etc.</i>
⑮ AMKE	1	perched on wire	
⑯ RLHA	1	perched on tree	
⑰ RLHA	1	perched in tree	
RLHA	1	circling (IBS/ABS)	
⑱ RLHA	1	circling (ABS)	
RLHA	1	perched. 100m N of road	
⑲ RLHA	1	perched in tree in field	
RTHA	1	circling (WABS)	
RLHA	1	" "	
community pasture → ⑳ RLHA SP.	1	circling (ABS)	
⑳ RLHA	1	circling (WABS)	
RLHA	1	perched on tree	
RTHA	1	perched on wire	
RLHA	1	perched on tree	
RLHA	1	flying IBS	
RLHA	1	" "	
RLHA	1	perched on tree	
RLHA RLHA	1	perched in tree (IBS)	
㉑ RLHA	1	circling (IBS)	
㉒ NOHA	1	hunting (bw)	
㉓ RLHA	1	soaring (IBS)	

Quality Control: This form is complete () & legible ()

Signature: _____
(Field Personnel)

Signature: Kentone Sun
(Project Manager)

Page _____ of _____

REV: Aug 10

Form 018



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Migrating Raptor Observation Form

Project Number: 160960595

Project Name: Amherst Island

Date / Time: 20 mar 2012

Field Personnel: mansell + Korpijaaako

Weather Conditions:

Temp:

Wind:

Cloud:

PPT:

PPT in last 24 hrs:

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
(25) RLHA	1	(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep) WABS circling (dark morph)	
(26) RLHA	1	IBS hunting	
(27) RLHA	1	perched in tree.	
(28) AMKE	1	perched in tree	
RLHA	1	" " "	
(29) RLHA	1	perched on juniper	

Quality Control: This form is complete (✓) & legible (✓)

Signature: _____

(Field Personnel)

Signature: Kathie Smith

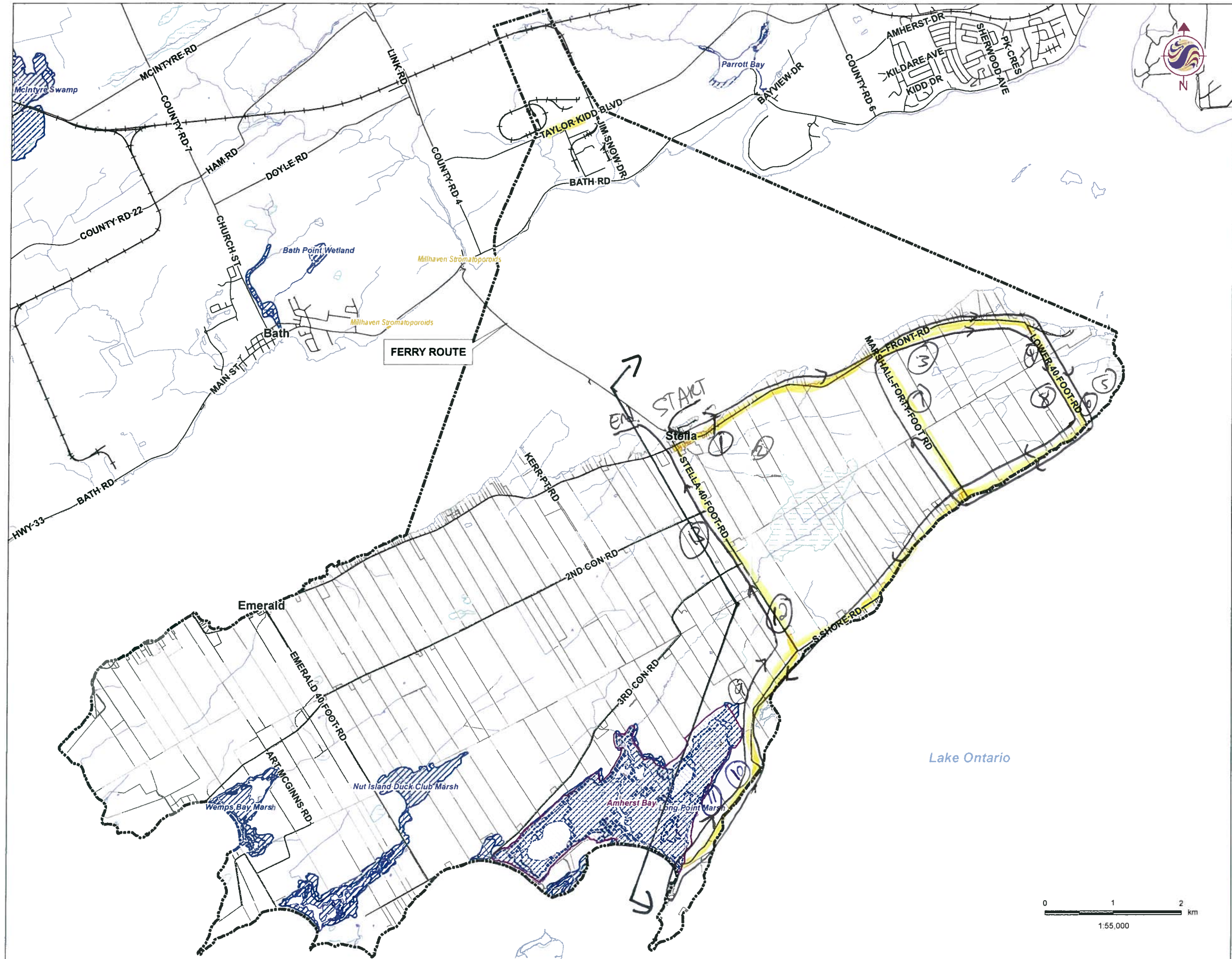
(Project Manager)

Page 3 of 4

REV: Aug 10

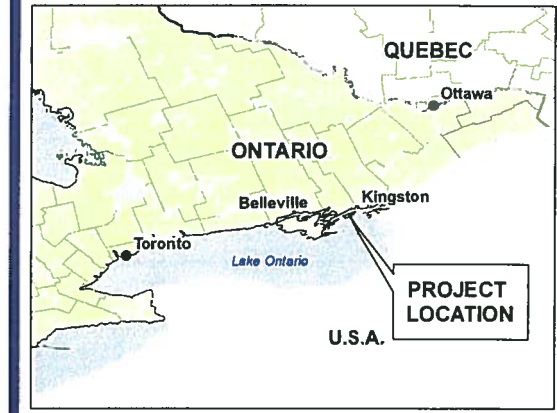
Form 018

EAST-MAINLAND



Legend

- Project Study Area
- Road
- Railway
- Watercourse
- Waterbody
- Unevaluated Wetland
- Provincially Significant Wetland
- ANSI, Earth Science
- ANSI, Life Science
- Property Boundaries
- Wooded Area



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.



Stantec

August 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
1

Title



Field Map - Waterfowl & Raptor Migration
Waterfowl, Winter Raptor & Short-eared Owl

N



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

**Migrating Raptor
Observation Form**

Project Number: 1160960595

Project Name: Amherst Island

Date / Time: Mar 20, 2012

Field Personnel: B. Holden N. Charlton

Weather Conditions:

Temp: 12°C - 16°

Wind: /

Cloud: /

PPT: /

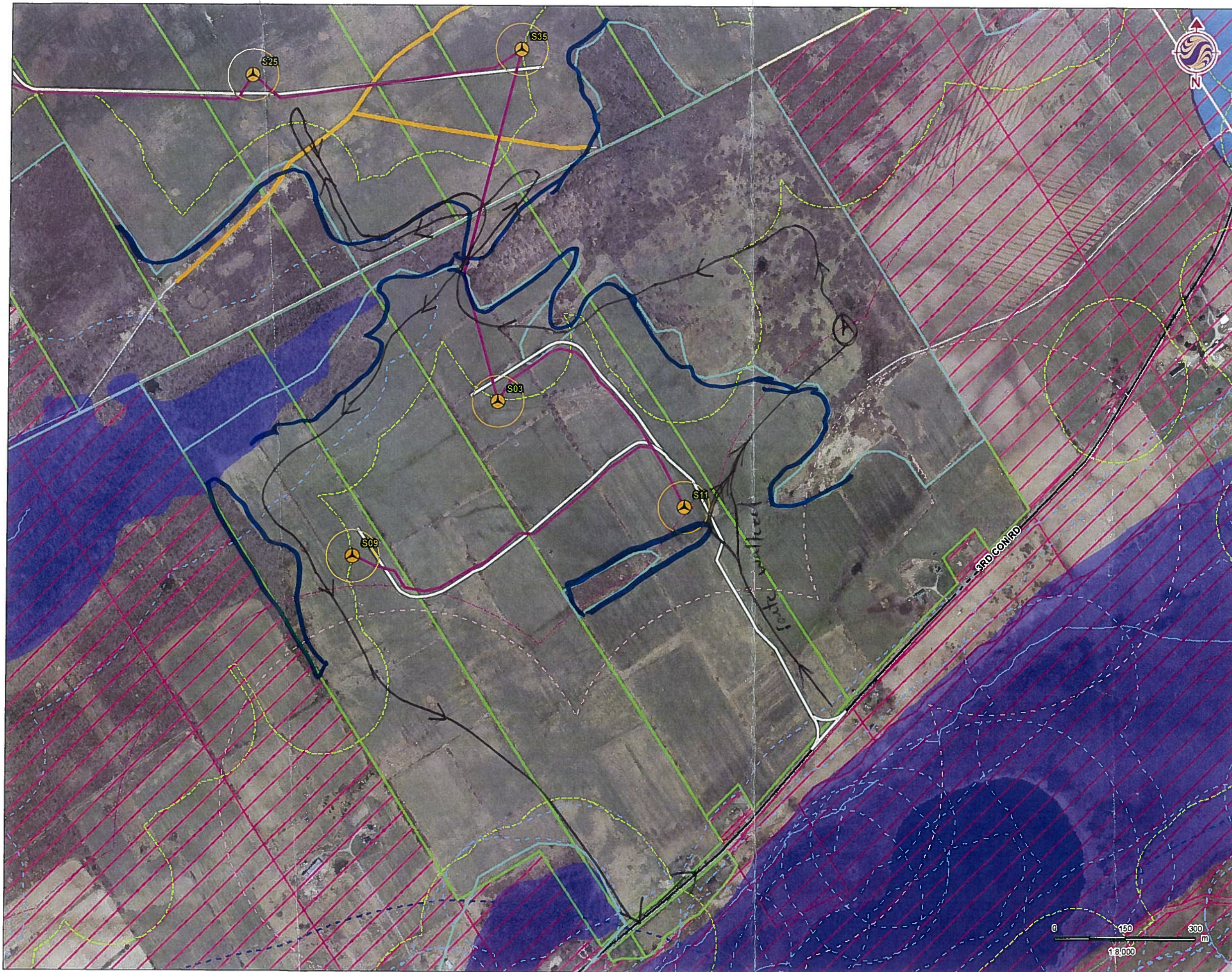
PPT in last 24 hrs: /

Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
1 NOHA 10:56	2	<i>(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep)</i> 10 m	perched flying over pasture
2 RLHA 10:57	1	10 m	perched in tree over pasture
3 RTHA 11:03	1	10 m	perched over fallow in tree
4 RTHA 11:10	1	15 m	perched in tree over shrub meadow
5 RTHA 11:10	1	10 m	perched in tree over pasture
6 NOHA 11:14	1	10 m	flying over pasture
7 RLHA 11:20	1	10 m	perched over fallow/grass
8 NOHA 11:23	2	10 m	flying over fallow
RLHA 11:24	1		
9 SWOW 11:40	1	5 m	perched on fence over pasture
10 NOHA 11:53	1	5 m	perched/flying over fallow on ground
11 RLHA 12:12	1	50 m	flying over pasture
12 ANKE 12:13	2	10 m	perched on wire by fallow/pasture
13 RLHA 12:21	1	10 m	perched in tree

Quality Control: This form is complete (✓) & legible (✓).

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- REA Waterbody
- Not a REA Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

Notes

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October 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 6 of 19

Title
FIELD MAP - LAYOUT S14



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Project Number: 160960595

Project Name: Anherst Island

Date / Time: Nov. 9 / 11

Field Personnel: J. Mausell, Z. Lebrun-Southcott

Weather Conditions:

Temp: 15°C

Wind: 2

Cloud: 20%

PPT: none

PPT in last 24 hrs: light rain

Ave. Snow Depth: 0

Location as indicated on field map: Tile 6 (D)
Start time: 8:50 am End time: 11:52 am

Species	# of Individuals	Location	Behaviour
		<i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	<i>Perched, Hunting, flying, height</i>
		- no roosting owls or raptors observed - woodlots are all deciduous around S09, S11, S03, S25, S35, except for a small patch of 5 junipers (marked as A on map)	

Quality Control: This form is complete & legible

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



- Legend**
- Study Area
 - Turbine (Layout S14)
 - Turbine Blade Tips (55m)
 - Collector Lines
 - Access Road
 - Laydown Area and Crane Pad
 - Turn Around Path
 - O & M Building
 - Potential Laydown and Storage Areas
 - Substation
 - Unopened Road Allowance
 - Road
 - Watercourse
 - Optional
 - Not Optioned
 - Delineated Wetland (Preliminary ONLY)
 - Waterbody Status**
 - REA Waterbody
 - Not a REA Waterbody
 - MRN Identified Wetlands**
 - PSW
 - Setbacks**
 - Participating Noise Receptors (400m)
 - Non-Participating Noise Receptors (550m)
 - Wooded Area (120m)
 - Lake Ontario (300m)
 - PSW (120m)
 - Waterbody (120m)
 - Delineated Wetland (120m)

- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
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October 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 4 of 19

Title
FIELD MAP - LAYOUT S14



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

**Winter Raptor *Slow*
Roost Surveys**

Project Number: 160960595 Project Name: AMHERST

Date / Time: 9 Nov/11 Field Personnel: BOB SIMP & SIM HOSKOP

Weather Conditions:	Temp: <u>10°C</u>	Wind: <u>W 5 KMH</u>	Cloud: <u>5%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>1</u>	Ave. Snow Depth: <u>—</u>
----------------------------	-------------------	----------------------	------------------	---------------	------------------------------	---------------------------

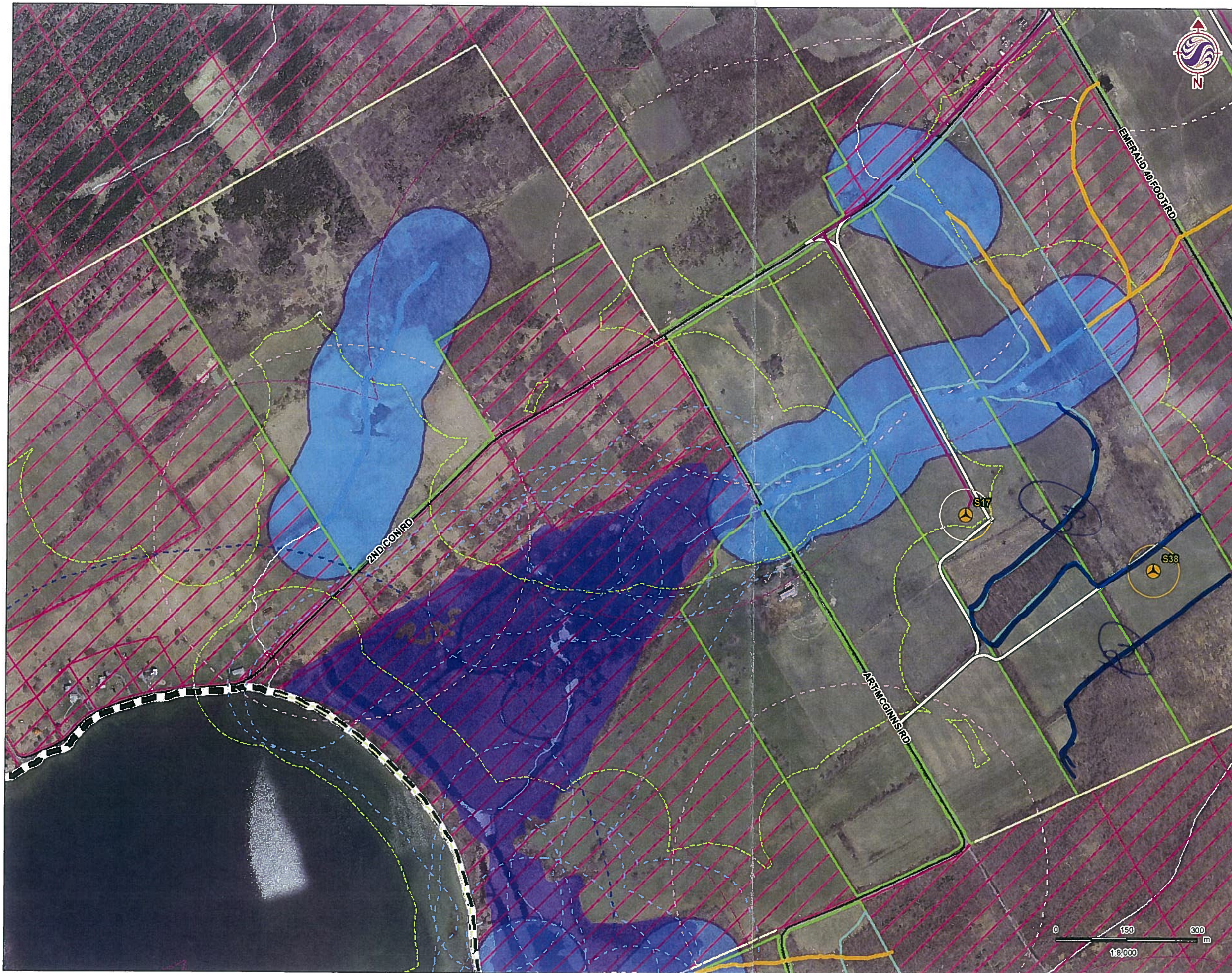
Location as indicated on field map: A (B)
Start time: 9:15 End time: 10:15

Species	# of Individuals	Location	Behaviour
		<i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	<i>Perched, Hunting, flying, height</i>
<u>NOHA</u>	<u>1</u>	<u>PASTURE / Red Cedar</u>	<u>Perched & THEN HUNTING</u>

①

Quality Control: This form is complete & legible
Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optioned
- Not Optioned
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- REA Waterbody
- Not a REA Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

Notes

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October 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 2 of 19

Title
FIELD MAP - LAYOUT S14



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

**Winter Raptor - SEOW
Roost Surveys**

Project Number: 160960595

Project Name: AMHERST

Date / Time: 9 Nov/11 10:30-11:30

Field Personnel: Bob SAMP + Jim HARZEP

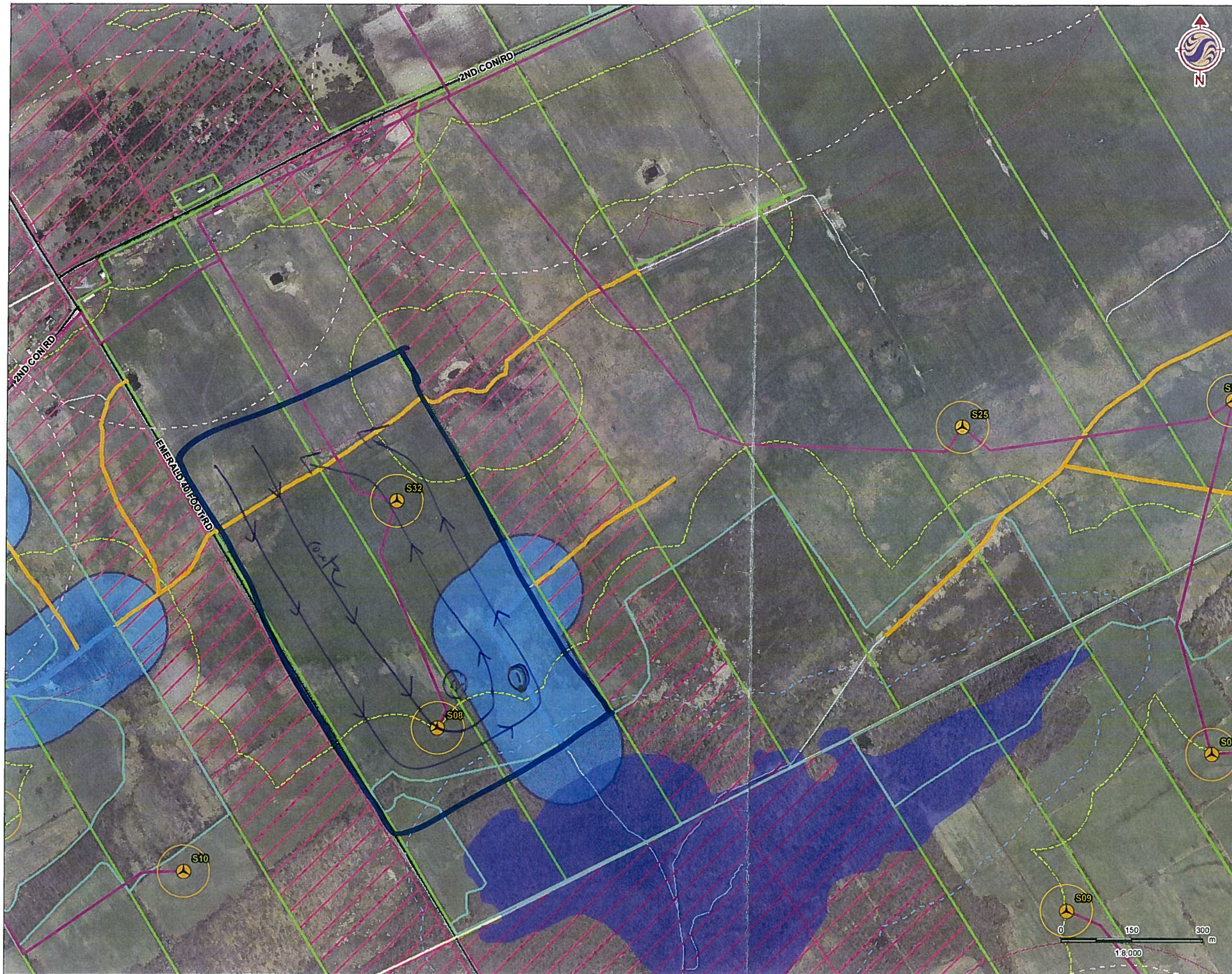
Weather Conditions:	Temp: <u>12°C</u>	Wind: <u>W10KPH</u>	Cloud: <u>5%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>1</u>	Ave. Snow Depth: <u>—</u>
----------------------------	-------------------	---------------------	------------------	---------------	------------------------------	---------------------------

Location as indicated on field map: 2+3 (A)
Start time: 10:30 End time: 11:30

Species	# of Individuals	Location	Behaviour
		<i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	<i>Perched, Hunting, flying, height</i>
<u>(2)</u>		<u>NOTHING TO REPORT</u>	
<u>(3)</u>		<u>✓ ✓</u>	

Quality Control: This form is complete (✓) & legible (✓).
Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- REA Waterbody
- Not a REA Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

Notes

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November 2011
160960595

Client/Project


WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 5 of 19

Title

FIELD MAP - LAYOUT S15

 Stantec	Stantec Consulting Ltd. 70 Southgate Drive Guelph, Ontario, Canada N1G 4P5 Tel: (519) 836-6050 Fax: (519) 836-2493	<h2>Winter Raptor Roost Surveys</h2>
	Project Number: <u>160960595</u>	Project Name: <u>Ankerst Island</u>

Date / Time: <u>Nov. 27 / 11</u>	Field Personnel: <u>J. Heslop ; Z. Lebrun-Southcott</u>
----------------------------------	---

Weather Conditions:	Temp: <u>5°C</u>	Wind: <u>3-4</u>	Cloud: <u>90%</u>	PPT: <u>none</u>	PPT in last 24 hrs: <u>none</u>	Ave. Snow Depth: <u>0</u>
----------------------------	------------------	------------------	-------------------	------------------	---------------------------------	---------------------------

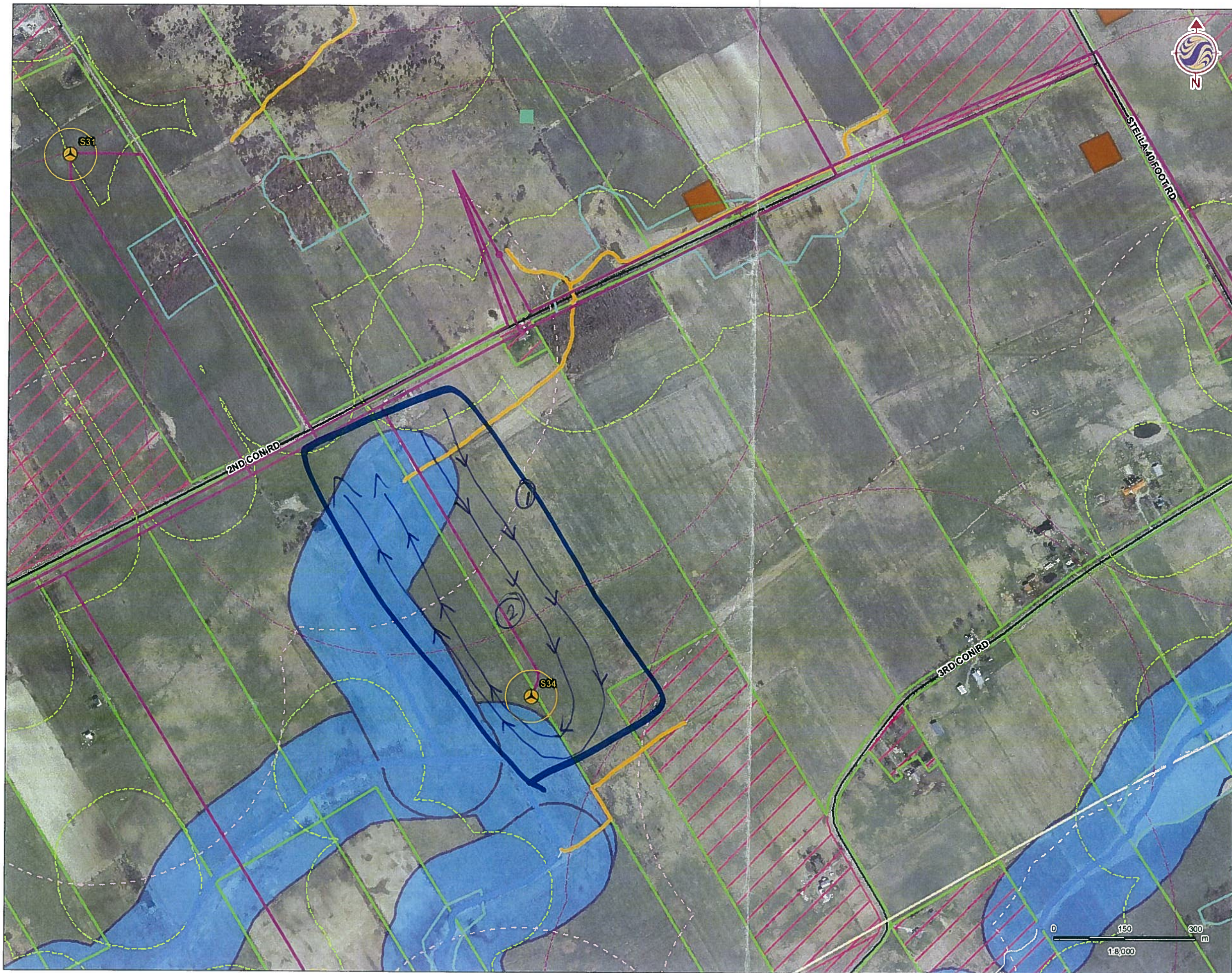
Location as indicated on field map: Title 5 of 19 (C)
 Start time: 1:20 pm End time: 2:05

Species (# on map)	# of Individuals	Location <i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	Behaviour
NoHA / 1:39 (#1)	2	- pasture	- hunting + resting
ANKR / 1:41 (#2)	1	pasture	- perched in tree
- no roosters adjacent to field			

Quality Control: This form is complete & legible

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- REA Waterbody
- Not a REA Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

Notes

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November 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
 Tile 10 of 19

Title
FIELD MAP - LAYOUT S15

 Stantec	Stantec Consulting Ltd. 70 Southgate Drive Guelph, Ontario, Canada N1G 4P5 Tel: (519) 836-6050 Fax: (519) 836-2493	<h2 style="margin:0;">Winter Raptor Roost Surveys</h2>
--	---	--

Project Number: <u>160960595</u>	Project Name: <u>Amherst Island</u>
Date / Time: <u>Nov. 24 / 11</u>	Field Personnel: <u>J. Heslop + Z. Lebrun-Southcott</u>

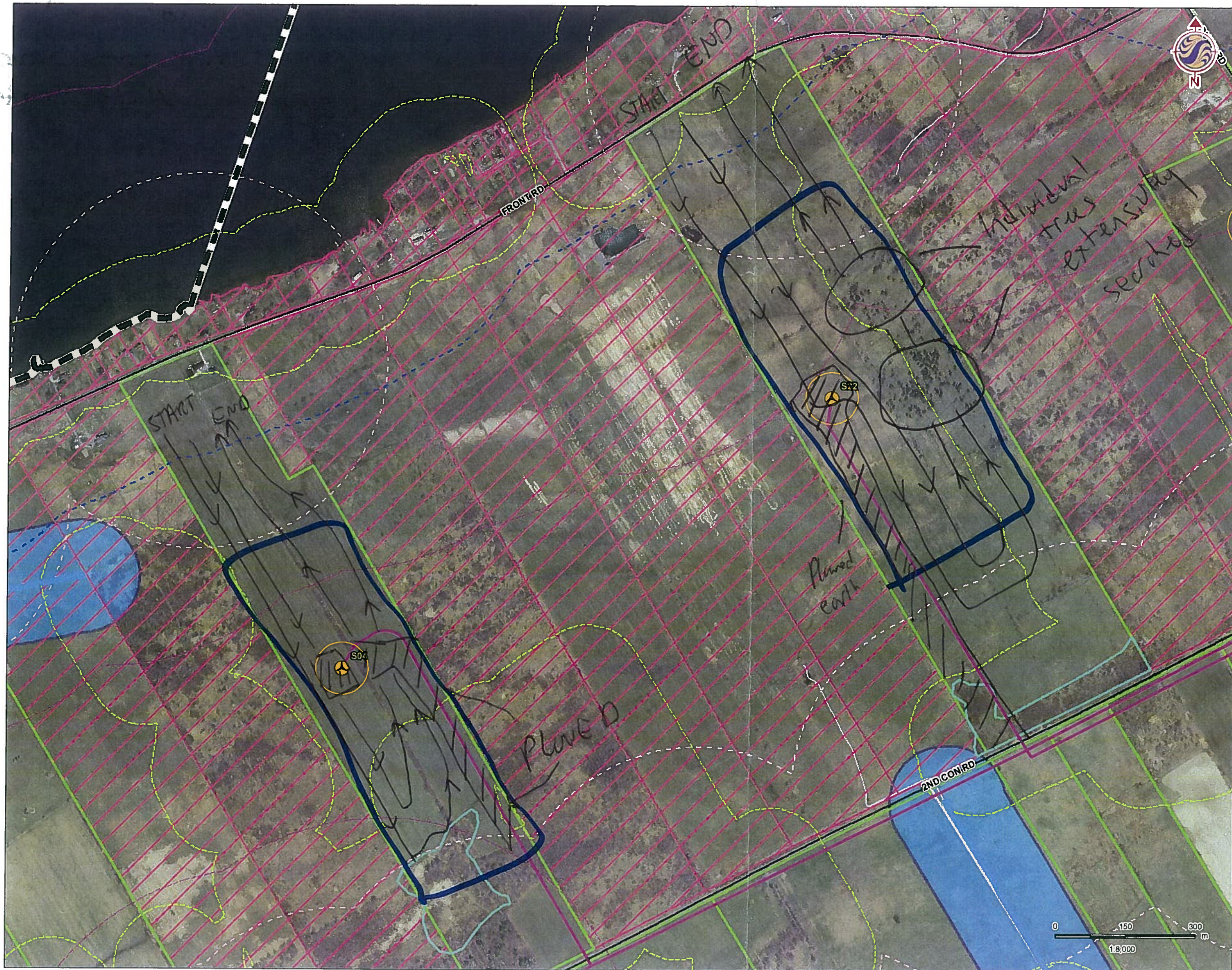
Weather Conditions:	Temp: <u>5°C</u>	Wind: <u>3-4</u>	Cloud: <u>100%</u>	PPT: <u>none</u>	PPT in last 24 hrs: <u>none</u>	Ave. Snow Depth: <u>0</u>
----------------------------	------------------	------------------	--------------------	------------------	---------------------------------	---------------------------

Location as indicated on field map: Tile 10 of 19 (H)
 Start time: 2:25 End time: 2:57

Species	# of Individuals	Location	Behaviour
AmKE/2:30 (#1)	1	<i>Habitat type, proximity to features (woodlands, ravines etc.)</i> - pasture	<i>Perched, Hunting, flying, height</i> - over post, hunting
ALHA/2:37 (#2)	1	- pasture	- on snag, hunting
- no counters adjacent to fields			

Quality Control: This form is complete () & legible ().
 Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- REA Waterbody
- Not a REA Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

Notes

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November 2011
160960595

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WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 7 of 19

Title
FIELD MAP - LAYOUT S15



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)

Waterbody Status

- REA Waterbody
- Not a REA Waterbody

MRN Identified Wetlands

- PSW

Setbacks

- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
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November 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 13 of 19

Title
FIELD MAP - LAYOUT S15



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Winter Raptor Roost Surveys

Project Number: 160960595 Project Name: Amherst
Date / Time: Nov 24, 2011 Field Personnel: B. Holden J. Mansell

Weather Conditions: Temp: 6°C Wind: 3-2 Cloud: 100 PPT: PPT in last 24 hrs: Snow? Ave. Snow Depth:

Location as indicated on field map: 26 - east field - 1305 - 1405 (E)
Start time: 1416 End time: 1522 - west field

Species	# of Individuals	Location	Behaviour
<i>East field</i>		<i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	<i>Perched, Hunting, flying, height</i>
<u>1330 - NSHR-1 - Ad -</u>			
<i>West</i>	<u>∞</u>		

Quality Control: This form is complete () & legible ().

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 2

REV: May, 07

Form 018



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Project Number: 595 Project Name: Amherst
Date / Time: Nov 29, 11 Field Personnel: BH, SM

Weather Conditions:	Temp: <u>5</u>	Wind: <u>3-4</u>	Cloud: <u>100</u>	PPT: <u>/</u>	PPT in last 24 hrs: <u>snow?</u>	Ave. Snow Depth: <u>/</u>
----------------------------	----------------	------------------	-------------------	---------------	----------------------------------	---------------------------

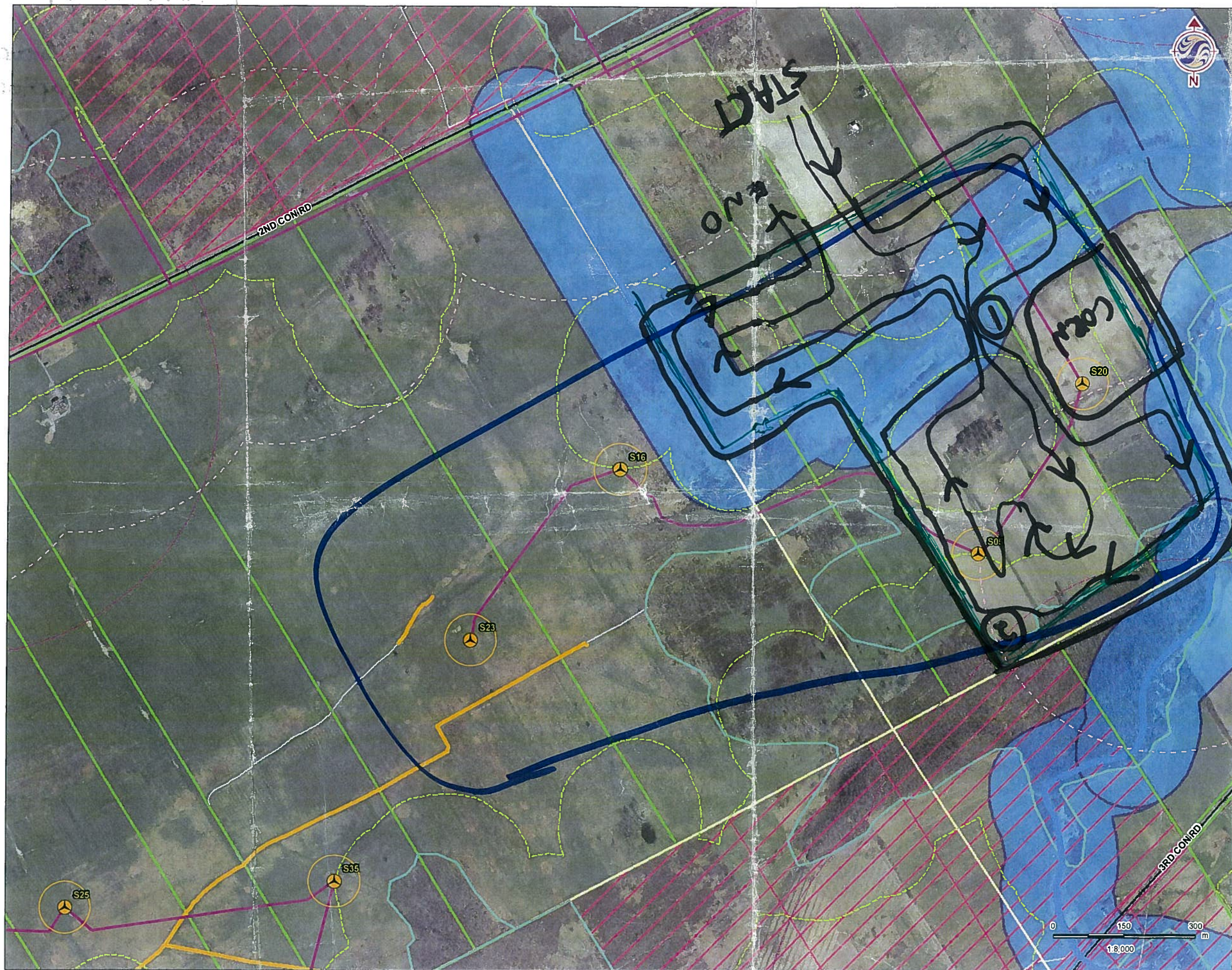
Location as indicated on field map: 2a (J)
Start time: 12:00 End time: 13:00

Species	# of Individuals	Location	Behaviour
12:44 SEOW	- 28	Habitat type, proximity to features (woodlands, ravines etc.) <u>circled on map</u> <u>Taller (1-2ft) dead clumps of grass in pasture field</u> <u>28 roosting</u> <u>Call flushed</u> <u>Photos taken of habitat.</u>	<u>Perched, Hunting, flying, height</u> <u>SEOW</u>

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- REA Waterbody
- Not a REA Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

only area inside black covered.

Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
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November 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 8 of 19

Title
FIELD MAP - LAYOUT S15



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Stantec

Project Number: 160960593 Project Name: Amherst
Date / Time: Dec 7, 11 Field Personnel: B.H. J.M. ZL-S, C.A.P.

Weather Conditions:	Temp: <u>2</u>	Wind: <u>2-N</u>	Cloud: <u>100</u>	PPT: <u>/</u>	PPT in last 24 hrs: <u>RAIN</u>	Ave. Snow Depth: <u>—</u>
----------------------------	----------------	------------------	-------------------	---------------	---------------------------------	---------------------------

Location as indicated on field map: _____ (F)
Start time: _____ End time: _____

Species	# of Individuals	Location	Behaviour
① SEOW	1	<i>Habitat type, proximity to features (woodlands, ravines etc.)</i> - Roosting in tall canopy reed grass near creek.	<i>Perched, Hunting, flying, height</i> (Flushed)
② RLHA	1 (light SW)	- On ground in woods (Flushed) - very odd location. (roosting?)	

Quality Control: This form is complete (✓) & legible (✓)

Signature: _____ (Field Personnel)

Signature: Ketina (Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- RE Waterbody
- Not a RE Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

Notes

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November 2011
160960595

Client/Project
 WINDLECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
 Tile 9 of 19

Title
 FIELD MAP - LAYOUT S15





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

(A)

Project Number: 595 Project Name: Amherst
 Date / Time: Dec 20, 11 Field Personnel: B. Holden N. Chelton

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:	Ave. Snow Depth:

Location as indicated on field map: (G)
Start time: _____ End time: _____

Species	# of Individuals	Location	Behaviour
① SEOW	1 (dead)	fresh remains of dead SEOW (predated)	Perched, Hunting, flying, height
- Signs	of extensive owl use	(old pellets etc)	found throughout site, little fresh signs noted.

Quality Control: This form is complete (✓) & legible (✓)

Signature: _____
(Field Personnel)

Signature: Karin S
(Project Manager)



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70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys



Project Number: 595

Project Name: Amberst

Date / Time: Dec 20, 11

Field Personnel: B. Holden N. Charlton

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:	Ave. Snow Depth:
				<u> </u>	<u> </u>	<u> </u>

Location as indicated on field map: _____

Start time: _____ End time: _____

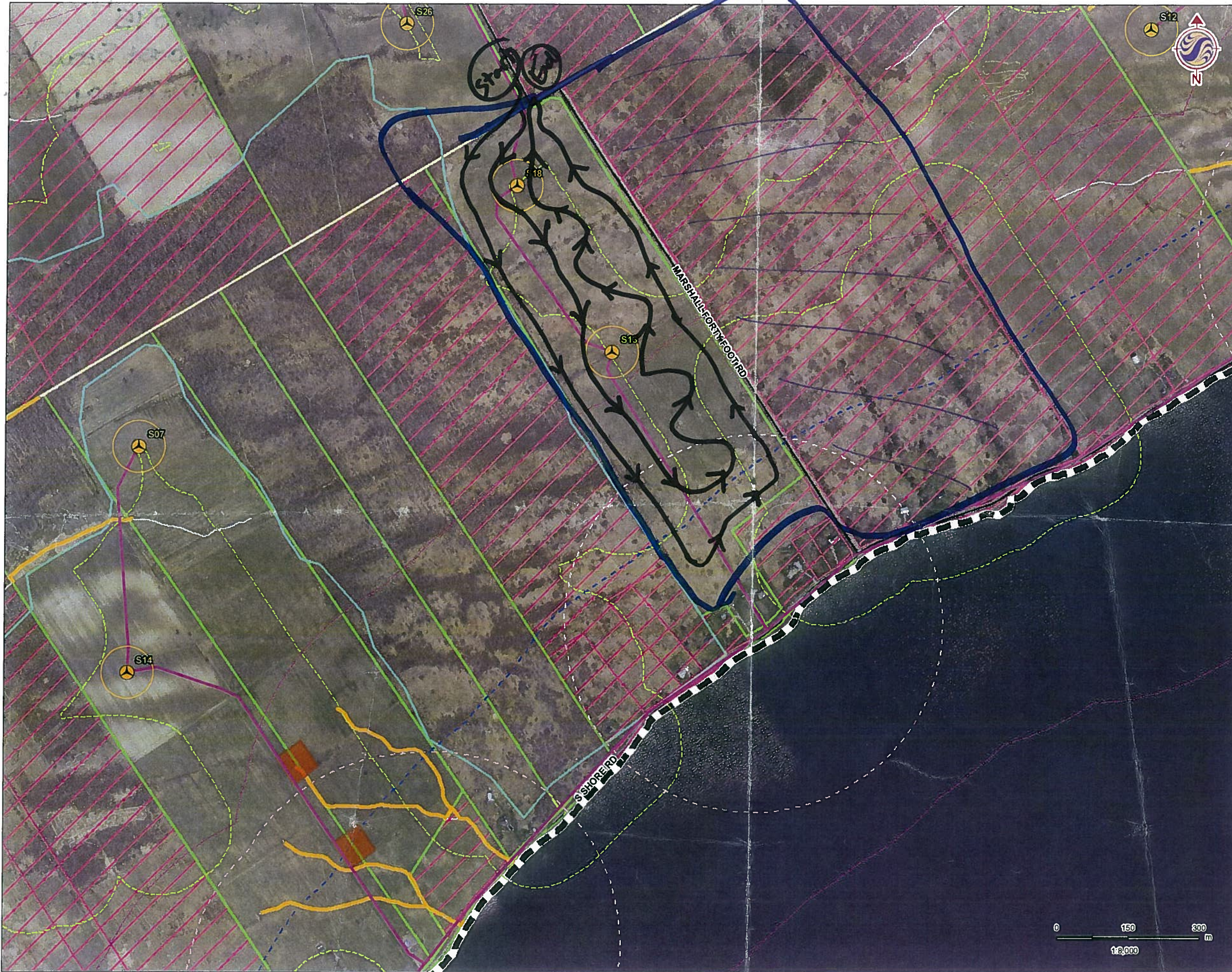
Species	# of Individuals	Location	Behaviour
<u>① Snow</u>	<u>1</u>	<i>Habitat type, proximity to features (woodlands, ravines etc.)</i> <u>roosting in decid tree - 5m.</u>	<i>Perched, Hunting, flying, height</i>

Quality Control: This form is complete (5) & legible (5).

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

46



- Legend**
- Study Area
 - Turbine (Layout S14)
 - Turbine Blade Tips (55m)
 - Collector Lines
 - Access Road
 - Laydown Area and Crane Pad
 - Turn Around Path
 - O & M Building
 - Potential Laydown and Storage Areas
 - Substation
 - Unopened Road Allowance
 - Road
 - Watercourse
 - Optional
 - Not Optional
 - Delineated Wetland (Preliminary ONLY)
 - Waterbody Status**
 - REA Waterbody
 - Not a REA Waterbody
 - MRN Identified Wetlands**
 - PSW
 - Setbacks**
 - Participating Noise Receptors (400m)
 - Non-Participating Noise Receptors (550m)
 - Wooded Area (120m)
 - Lake Ontario (300m)
 - PSW (120m)
 - Waterbody (120m)
 - Delineated Wetland (120m)

- Notes**
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November 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 16 of 19

Title
FIELD MAP - LAYOUT S15





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Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

~~Winter Short-eared Owl~~
Observation Form

Project Number: 160960595

Project Name: Amherst Island

Date / Time: Dec. 20/11 1:10 pm
- 1:57 pm

Field Personnel: C.A. Fayette, Z. Lebrun-Southcott

Weather Conditions:

Temp: 1-2°C

Wind: 1-2

Cloud: 10-30%

PPT: /

PPT in last 24 hrs: light rain

Ave. Snow Depth: 0

~~total km driven on survey~~

Map 4b (M)

Species	# of Individuals	Location	Behaviour
Species		Habitat type, proximity to features (woodlands, ravines etc.)	Perched, Hunting, flying, height
- no roosting owls or raptors observed			

Quality Control: This form is complete (✓) & legible (✓)

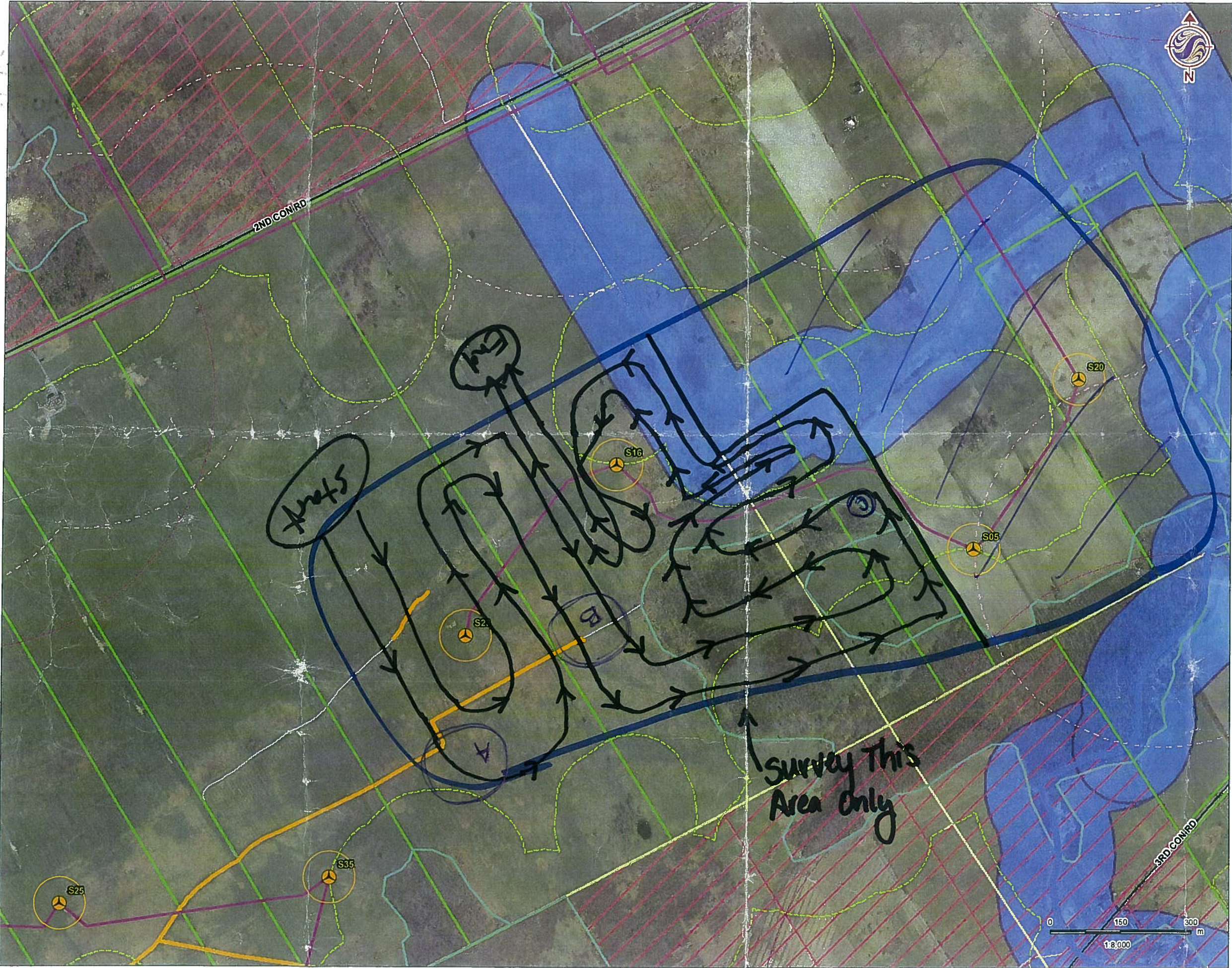
Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 1

REV: May, 07

Form 022



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
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- Turn Around Path
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Notes

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Figure No.
 Tile 8 of 19

Title
 FIELD MAP - LAYOUT S15



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Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Project Number: 160960595

Project Name: Aurora

Date / Time: Dec. 20/11

Field Personnel: Chevy-Anne Payette, Z. Lebrun-South

Weather Conditions:	Temp: <u>-2-0°C</u>	Wind: <u>1-2</u>	Cloud: <u>10-40%</u>	PPT: <u>/</u>	PPT in last 24 hrs: <u>light rain</u>	Ave. Snow Depth: <u>0</u>
----------------------------	---------------------	------------------	----------------------	---------------	---------------------------------------	---------------------------

Location as indicated on field map: Tile 8 of 19 (f) (Map 3a)
Start time: 9:15 am End time: 11:48 am

Species	# of Individuals	Location	Behaviour
(A) SEOW	5	<i>Habitat type, proximity to features (woodlands, ravines etc.)</i> - cultural meadow (wet) / meadow marsh w/ goldenrod + grasses; adjacent to watercourse	<i>Perched, Hunting, flying, height</i> - roosting - flushed as we approached
(B) SEOW	10	- same habitat as above	- roosting
(C) NOHA	1	- fallow thicket	- flushed from ground

Quality Control: This form is complete () & legible ().

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
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4a

Notes

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Figure No.
Tile 15 of 19

Title
FIELD MAP - LAYOUT S15



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N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Winter Short-eared Owl
Observation Form

Project Number: ~~160960494~~ 160960595 Project Name: ~~Wolfe Island~~ Amherst
Date / Time: Dec. 20/11 2:00 - 3:15 pm Field Personnel: C. Payette, Z. Lebrun-Southcott

Weather Conditions:	Temp: 0°C	Wind: 1-2	Cloud: 10-20%	PPT: /	PPT in last 24 hrs: light rain	Ave. Snow Depth: 0
---------------------	-----------	-----------	---------------	--------	--------------------------------	--------------------

(L)

total km driven on survey

Map # 4A

(SW portion of map not surveyed b/c owls already out + flying around)

Time Species	# of Individuals	Location Habitat type, proximity to features (woodlands, ravines etc.)	Behaviour Perched, Hunting, flying, height
(A) SEOW	3	fallow field	1 roosting - flushed + flew over to adjacent field (to the west) + was joined by 2 others (likely these ones came from adjacent field to the W?)

Quality Control: This form is complete (✓) & legible (✓)

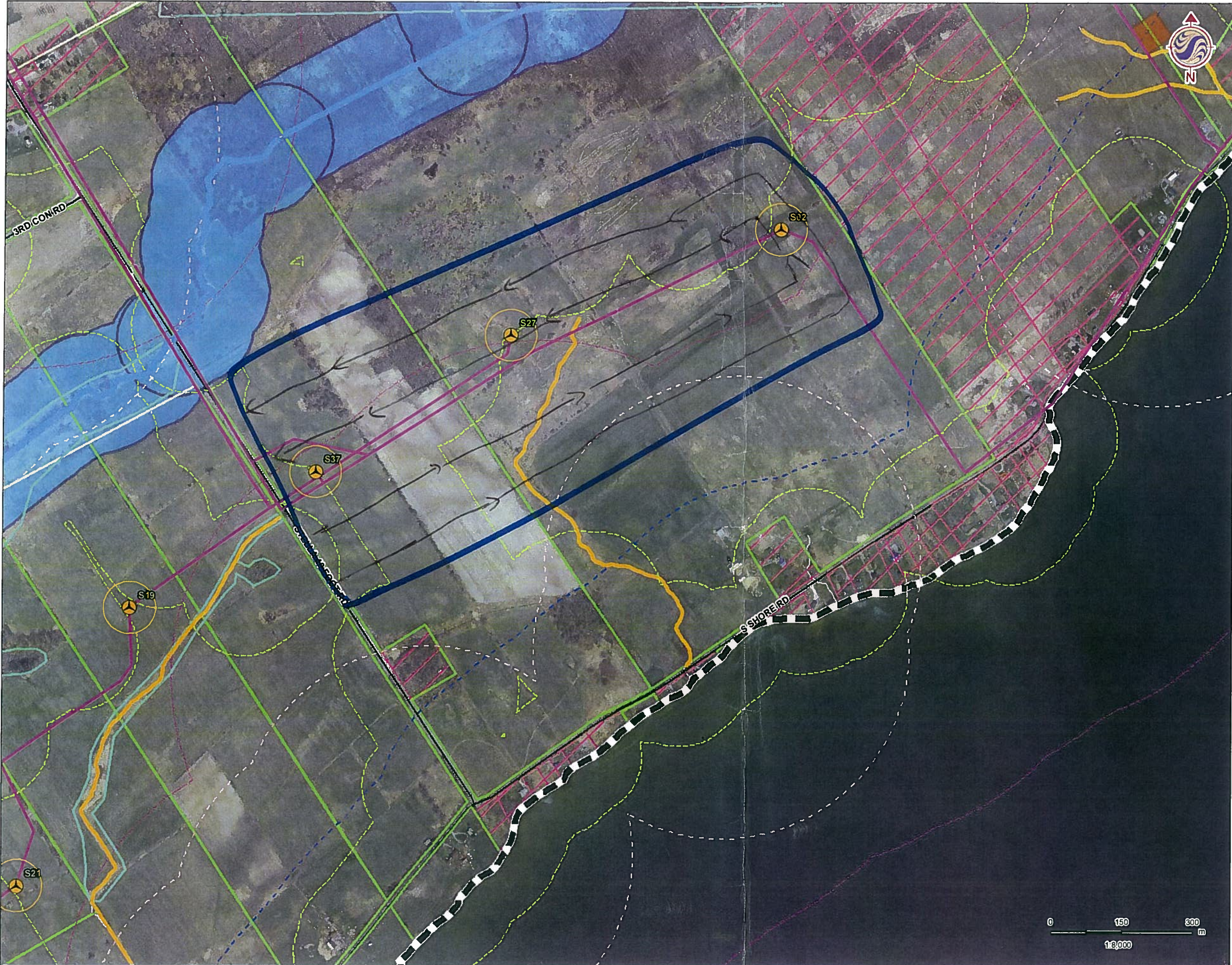
Signature: (Field Personnel)

Signature: (Project Manager)

Page 1 of 1

REV: May, 07

Form 022



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
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Figure No.
Tile 14 of 19

Title
FIELD MAP - LAYOUT S15





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Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Project Number: 160960595

Project Name: Amherst Island

Date / Time: Jan 10
3:20

Field Personnel: D. Graham, K. Russ

Weather Conditions:	Temp: <u>4°C</u>	Wind: <u>1</u>	Cloud: <u>50%</u>	PPT: <u>None</u>	PPT in last 24 hrs: <u>None</u>	Ave. Snow Depth: <u>0</u>
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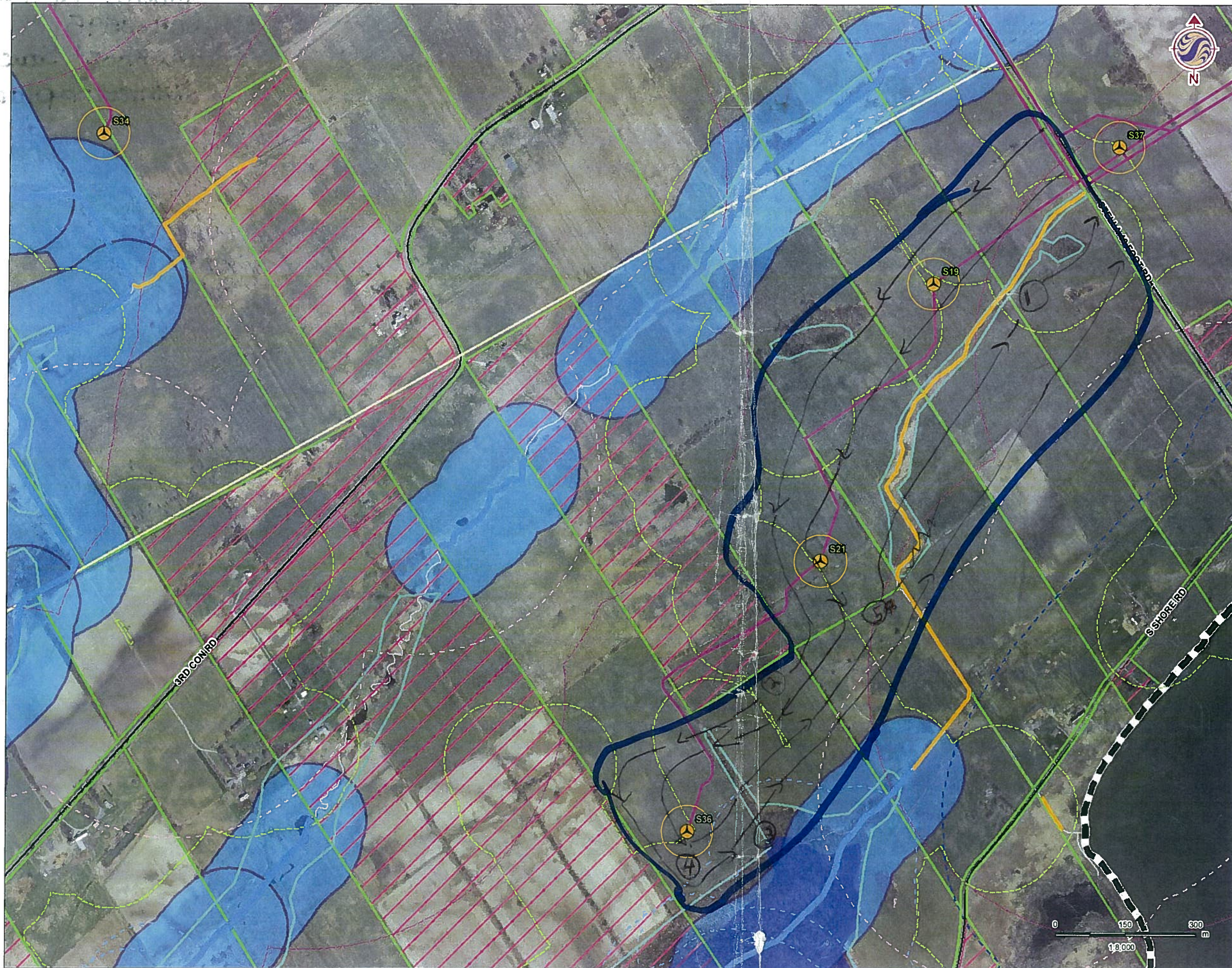
Location as indicated on field map: SA (k)
Start time: 3:20 End time: 4:20

Species	# of Individuals	Location <i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	Behaviour <i>Perched, Hunting, flying, height</i>
	<u>None</u>		

Quality Control: This form is complete (✓) & legible (✓)
Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

56



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
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Notes

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 AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
 Tile 11 of 19

Title
 FIELD MAP - LAYOUT S15



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N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Project Number: 160960595

Project Name: Amherst Island

Date / Time: Jan. 10, 2012

Field Personnel: D. Graham, M. Ross

Weather Conditions:	Temp: <u>4C</u>	Wind: <u>2</u>	Cloud: <u>70%</u>	PPT: <u>None</u>	PPT in last 24 hrs: <u>None</u>	Ave. Snow Depth: <u>0</u>
----------------------------	-----------------	----------------	-------------------	------------------	---------------------------------	---------------------------

Location as indicated on field map: 5b (F)
Start time: ~~10~~ 2:00 End time: 3:17

	Species	# of Individuals	Location	Behaviour
			<i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	<i>Perched, Hunting, flying, height</i>
1	RTHA	1	3-8m Pasture.	Perched flying
	NOHA	2	3m Pasture	Foraging
2	NOSH	1	3m Pasture	Perched
3	raptor nest	1	8m up in PSW along edge of deciduous swamp	
4	raptor nest	1	7m up in isolated oak in field	
5	E. meadowlark	3	6m field (pasture)	6m flying west

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
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5a

Notes

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AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 17 of 19

Title

FIELD MAP - LAYOUT S15



1:10 pm - 3:00 pm



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N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

ROOSTING

Migrating Raptor
Observation Form

Area search

Project Number: 1120960595

Project Name: Amherst Island

Date / Time: Sun 10/12

Field Personnel: B. Holdy J. Maxwell

Weather Conditions:

Temp: 3°C

Wind: 4-5 NW

Cloud: 80-95%

PPT: /

PPT in last 24 hrs: RAIN

(N)

no snow

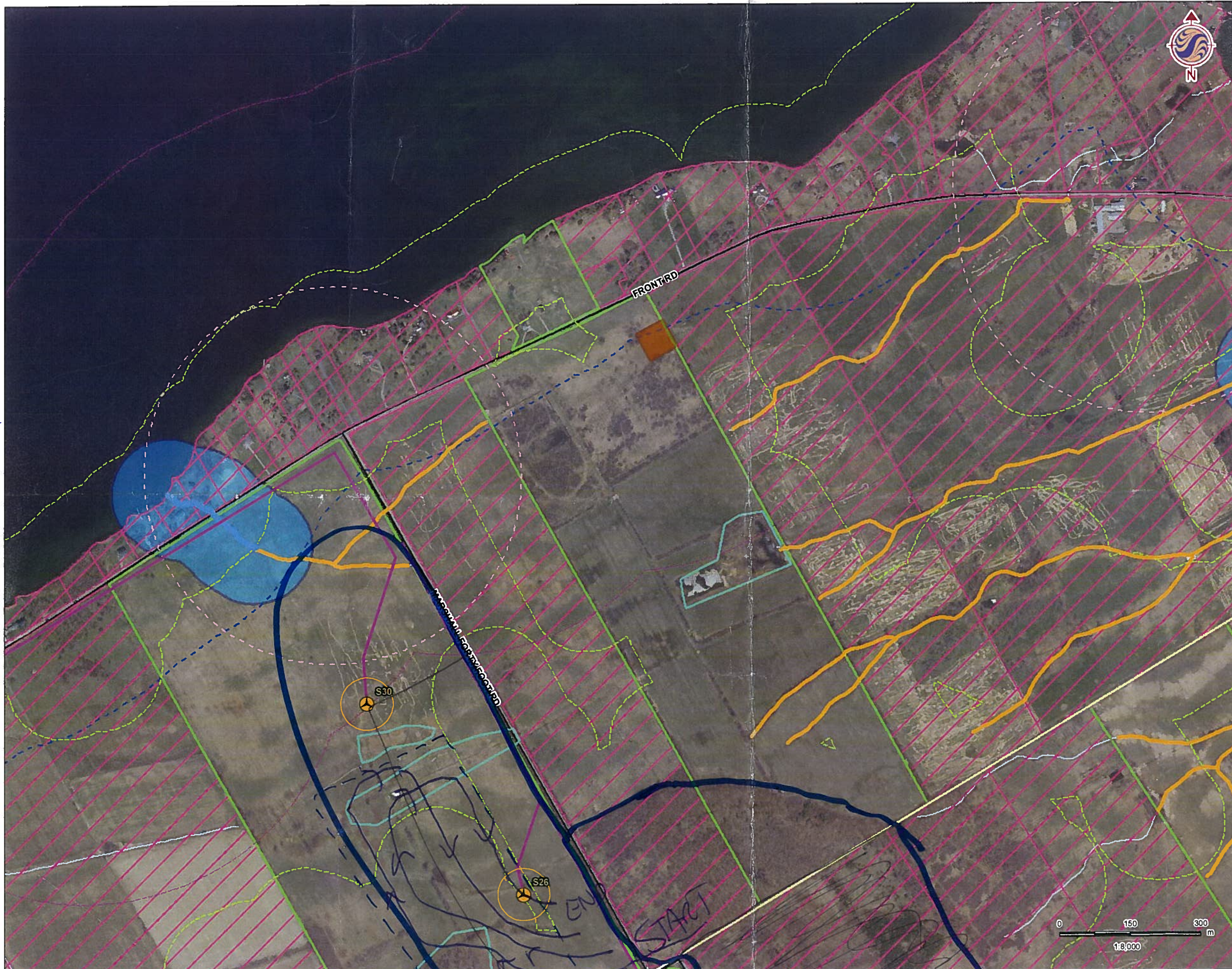
Species / Time (# on map)	# of Individuals	Flight height* and direction	Notes
(A) SNOW-1	1:17 -	(* below blade sweep, in blade sweep, above blade sweep, well above blade sweep) roosting near pile of rocks	(X)
(B) SNOW-1	1:35 -	roosting on tilled earth	(X)
(C) SEOW-1	2:43 -	roosting in tall grass in pasture (dark ♀ type)	10m when flushed
(D) EAME-1	2:00 -	flushed from tall canopy near grass	5m

Quality Control: This form is complete () & legible ()

Signature: [Signature] (Field Personnel)

Signature: [Signature] (Project Manager)

4a



- Legend**
- Study Area
 - Turbine (Layout S14)
 - Turbine Blade Tips (55m)
 - Collector Lines
 - Access Road
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- Notes**
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Figure No.
Tile 15 of 19

Title
FIELD MAP - LAYOUT S15

area not surveyed the previous week.
was covered with vegetation



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Tel: (519) 836-6050
Fax: (519) 836-2493

12⁰⁰pm - 1pm

Roosting Raptor Area Search
Winter Short-eared Owl
Observation Form

Project Number: 160960595

Project Name: Amherst Island

Date / Time:

Jun 10, 12

Field Personnel:

RH JM

Weather Conditions:

Temp:

3

Wind:

3-4M

Cloud:

90

PPT:

—

PPT in last 24 hrs:

RAIN

Ave. Snow Depth:

—

total km driven on survey (L)

Time	# of Individuals	Location	Behaviour
		Habitat type, proximity to features (woodlands, ravines etc.)	Perched, Hunting, flying, height
	NO	Roosting Raptor fans	

Quality Control: This form is complete () & legible ()

Signature:

[Signature]

(Field Personnel)

Signature:

[Signature]

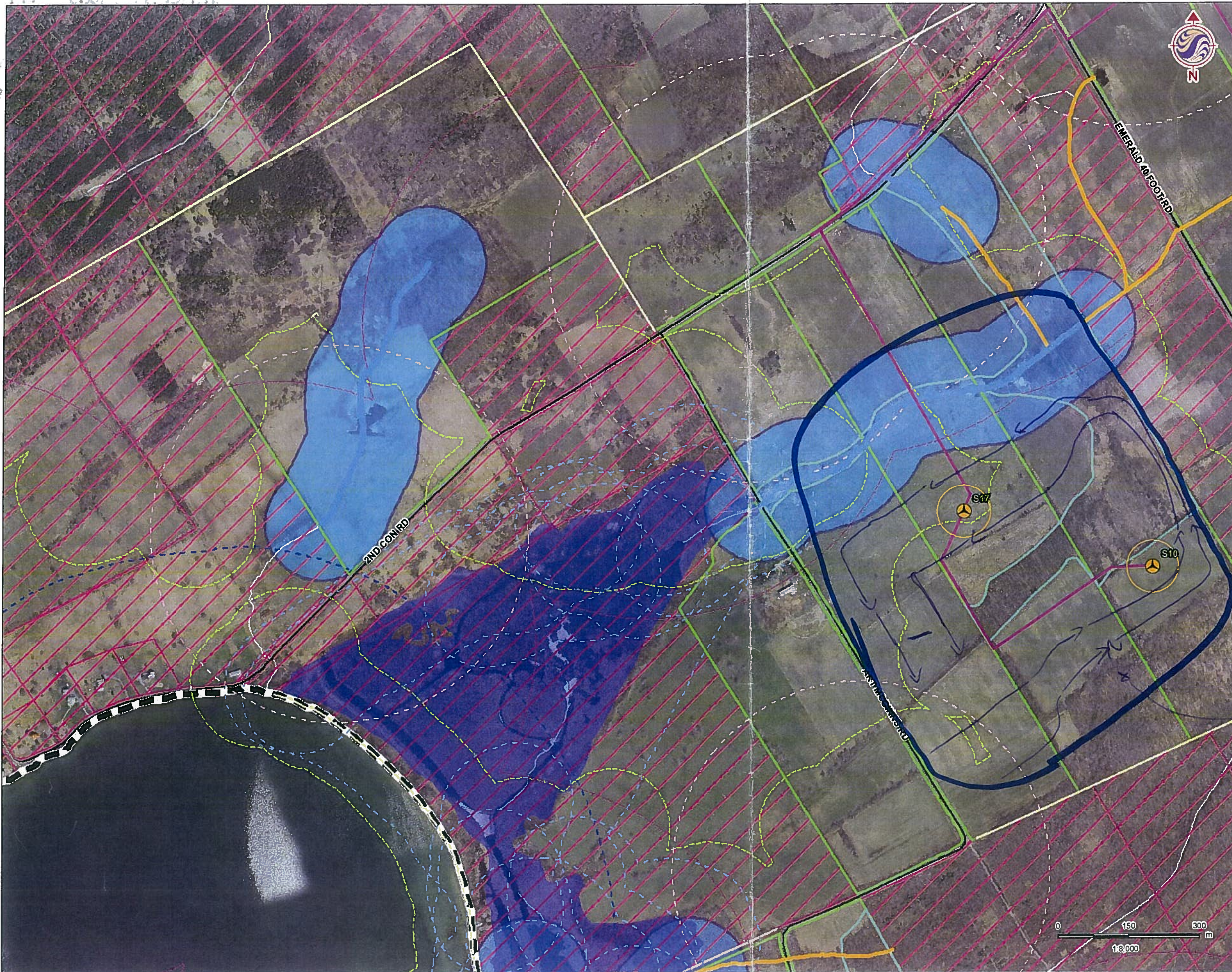
(Project Manager)

Page

1 of 2

REV: May, 07

Form 022



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
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Notes

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November 2011
160960595

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AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 2 of 19

Title

FIELD MAP - LAYOUT S15



1a

West (likely RTHAs)



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Tel: (519) 836-8050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Stantec

Project Number: 160960595 Project Name: Aphorst Island

Date / Time: Jan 24, 2012 Field Personnel: D. Graham, M. Rose
3:10

Weather Conditions:	Temp: <u>1°C</u>	Wind: <u>3</u>	Cloud: <u>100%</u>	PPT: <u>Flurries</u>	PPT in last 24 hrs: <u>Rain</u>	Ave. Snow Depth: <u>0"</u>
---------------------	------------------	----------------	--------------------	----------------------	---------------------------------	----------------------------

Location as indicated on field map: 1a (A)

Start time: 3:10 End time: 4:10

Species	# of Individuals	Location	Behaviour
1 NOHA	1	Habitat type, proximity to features (woodlands, ravines etc.) <u>Hayfield</u>	Perched, Hunting, flying, height <u>Flying 2m</u>
2 RTHA	2	<u>Deciduous forest edge</u>	<u>Perched, then flushed 8m</u>
AMRD	25	<u>Thicket & young ash</u>	<u>Flying west, landed in trees</u>

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(District Manager)

1a



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
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Notes

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AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 4 of 19

Title

FIELD MAP - LAYOUT S15



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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Project Number: 100960595

Project Name: Amherst Island

Date / Time: January 25/2009

Field Personnel: Josh Mansell + Matt Ross

Weather Conditions:	Temp: <u>0</u>	Wind: <u>W 20 km/h</u>	Cloud: <u>60%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>	Ave. Snow Depth: <u>0</u>
----------------------------	----------------	------------------------	-------------------	---------------	------------------------------	---------------------------

Location as indicated on field map: 1a (B)

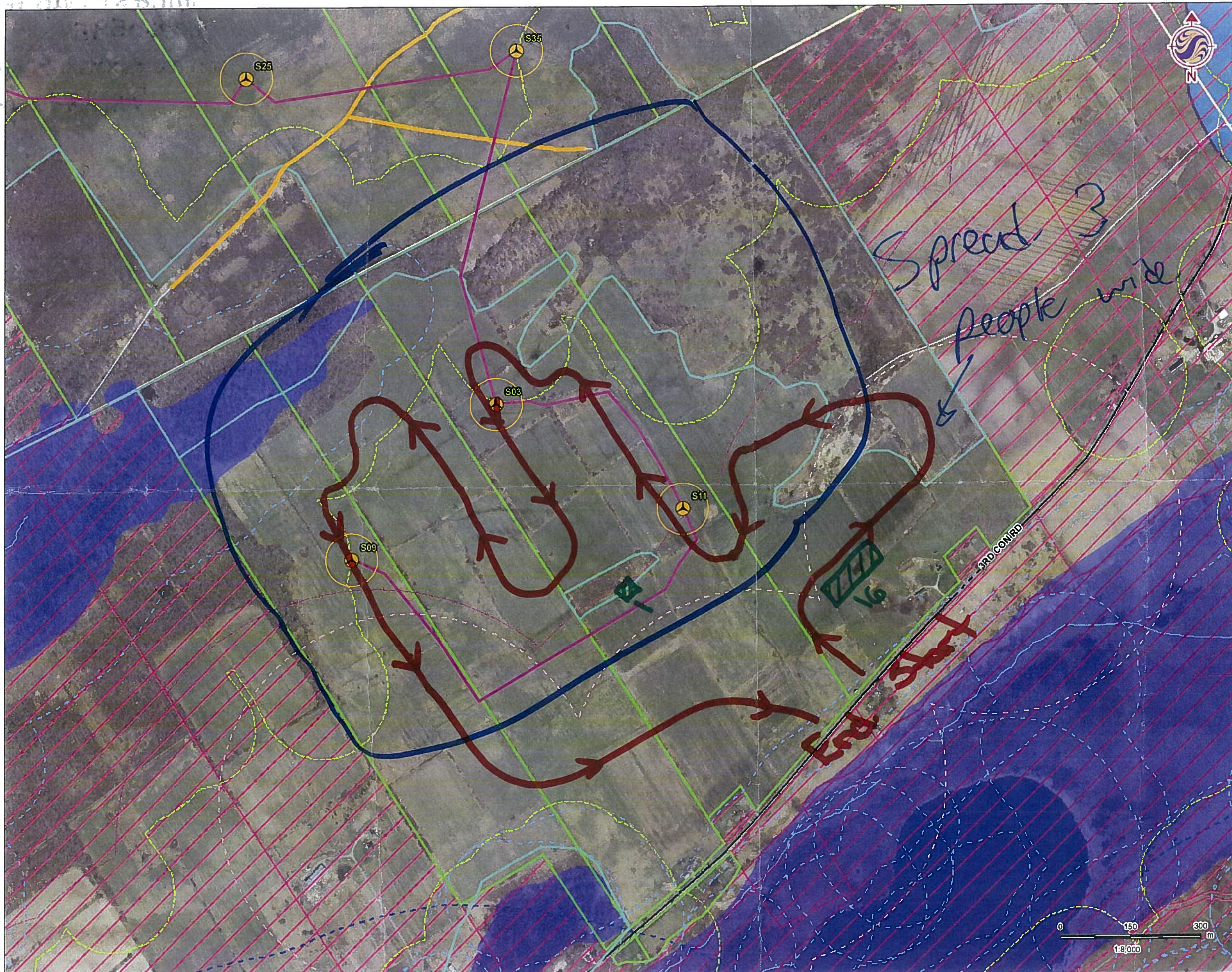
Start time: 10:00 End time: 12:00

Species	# of Individuals	Location <i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	Behaviour <i>Perched, Hunting, flying, height</i>
 <p>No BIRDS</p> 			

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



- Legend**
- Study Area
 - Turbine (Layout S14)
 - Turbine Blade Tips (55m)
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 - PSW
 - Setbacks**
 - Participating Noise Receptors (400m)
 - Non-Participating Noise Receptors (550m)
 - Wooded Area (120m)
 - Lake Ontario (300m)
 - PSW (120m)
 - Waterbody (120m)
 - Delineated Wetland (120m)

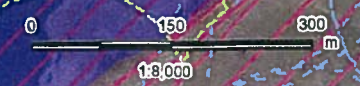
- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008

November 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 6 of 19

Title
FIELD MAP - LAYOUT S15





Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Winter Raptor Roost Surveys

Project Number: 602960595 Project Name: Amherst Island

Date / Time: January 25 / 2012 Field Personnel: J. Mansell / M. Ross / B. Holden

Weather Conditions:	Temp: <u>0</u>	Wind: <u>NW 10 km/h</u>	Cloud: <u>80%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>	Ave. Snow Depth: <u>0</u>
----------------------------	----------------	-------------------------	-------------------	---------------	------------------------------	---------------------------

Location as indicated on field map: 13 (D)
Start time: 12:30 End time: 2:45

Species	# of Individuals	Location	Behaviour
SEOW	16	Habitat type, proximity to features (woodlands, ravines etc.) Follow pasture w/ mix of Reed Canary Grass, Meadowsweet In close proximity to barn and cattle	Perched, Hunting, flying, height Roosting 18T 361499E 4887624N J
SEOW	1	low-lying grassy area between two hay fields.	Roosting. 18T 362094E 4887678N J

Quality Control: This form is complete () & legible ()
Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- REA Waterbody
- Not a REA Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

Notes

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WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 5 of 19

Title
FIELD MAP - LAYOUT S15



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

**Winter Raptor
Roost Surveys**

2A

Project Number: 1609 60595

Project Name: Ankerst Island

Date / Time: Feb 7, 2012

Field Personnel: D. Graham C. Karpjako

Weather Conditions:	Temp: <u>-2C</u>	Wind: <u>2</u>	Cloud: <u>30%</u>	PPT: <u>None</u>	PPT in last 24 hrs: <u>None</u>	Ave. Snow Depth: <u>0</u>
----------------------------	------------------	----------------	-------------------	------------------	---------------------------------	---------------------------

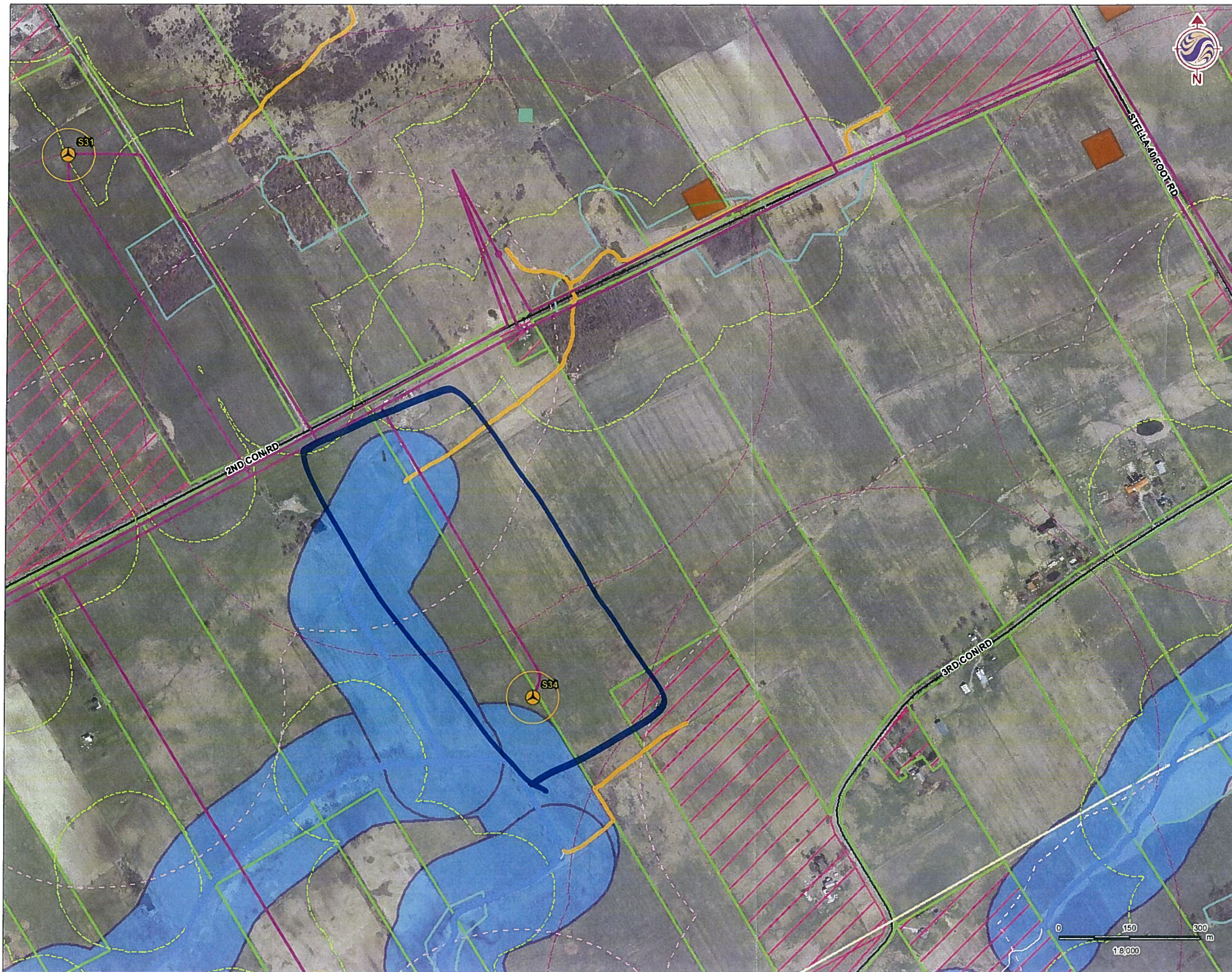
Location as indicated on field map: 2a (C)
Start time: 13³⁰ End time: 14³⁰

Species	# of Individuals	Location	Behaviour
1 RTHA 13 ⁴⁵	1	Woodland	Perched, Hunting, flying, height
2 NBHA 14 ¹⁰	1	Pasture	Perched just east of search area
3 NBHA 14 ²⁵	1	Pasture	Foraging @ 2m, flying east Foraging @ 2m

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- REA Waterbody
- Not a REA Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
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- PSW (120m)
- Waterbody (120m)
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Notes

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November 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 10 of 19

Title

FIELD MAP - LAYOUT S15



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Raptor
~~Winter Short-eared Owl~~
Observation Form
Roost Survey

Project Number: 160960595

Project Name: Amherst Island

Date / Time: Feb 7, 2012
14:45-15:30

Field Personnel: D. Graham, C Koopjaska

Weather Conditions:	Temp: -2C	Wind: 2	Cloud: 38%	PPT: None	PPT in last 24 hrs: None	Ave. Snow Depth: 0.
---------------------	-----------	---------	------------	-----------	--------------------------	---------------------

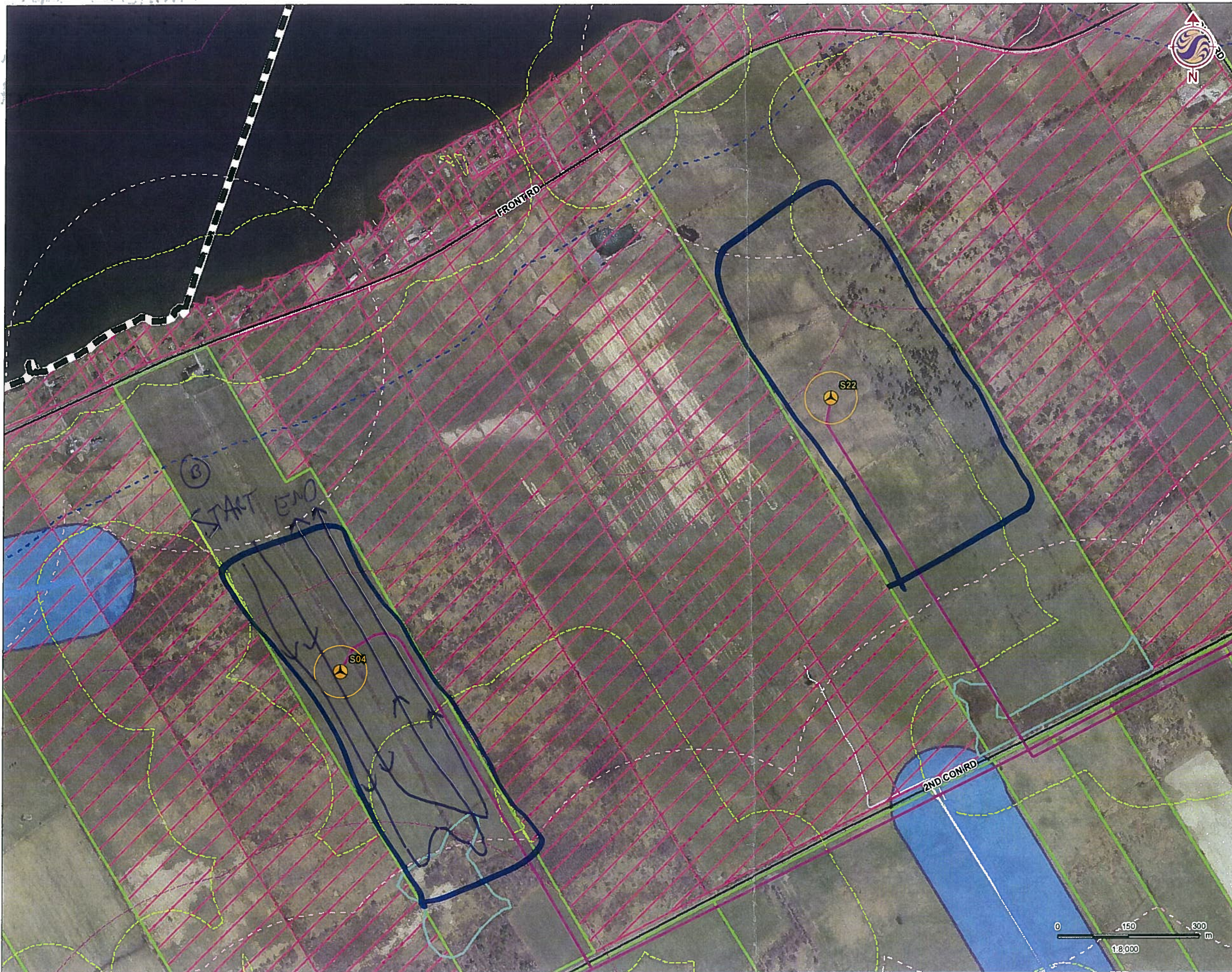
26. (H) total km driven on survey

Time	# of Individuals	Location	Behaviour
1 RTHA 14:45	1	Habitat type, proximity to features (woodlands, ravines etc.) Perched in tree in pasture.	Perched, Hunting, flying, height Pasture

Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- REA Waterbody
- Not a REA Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

Notes

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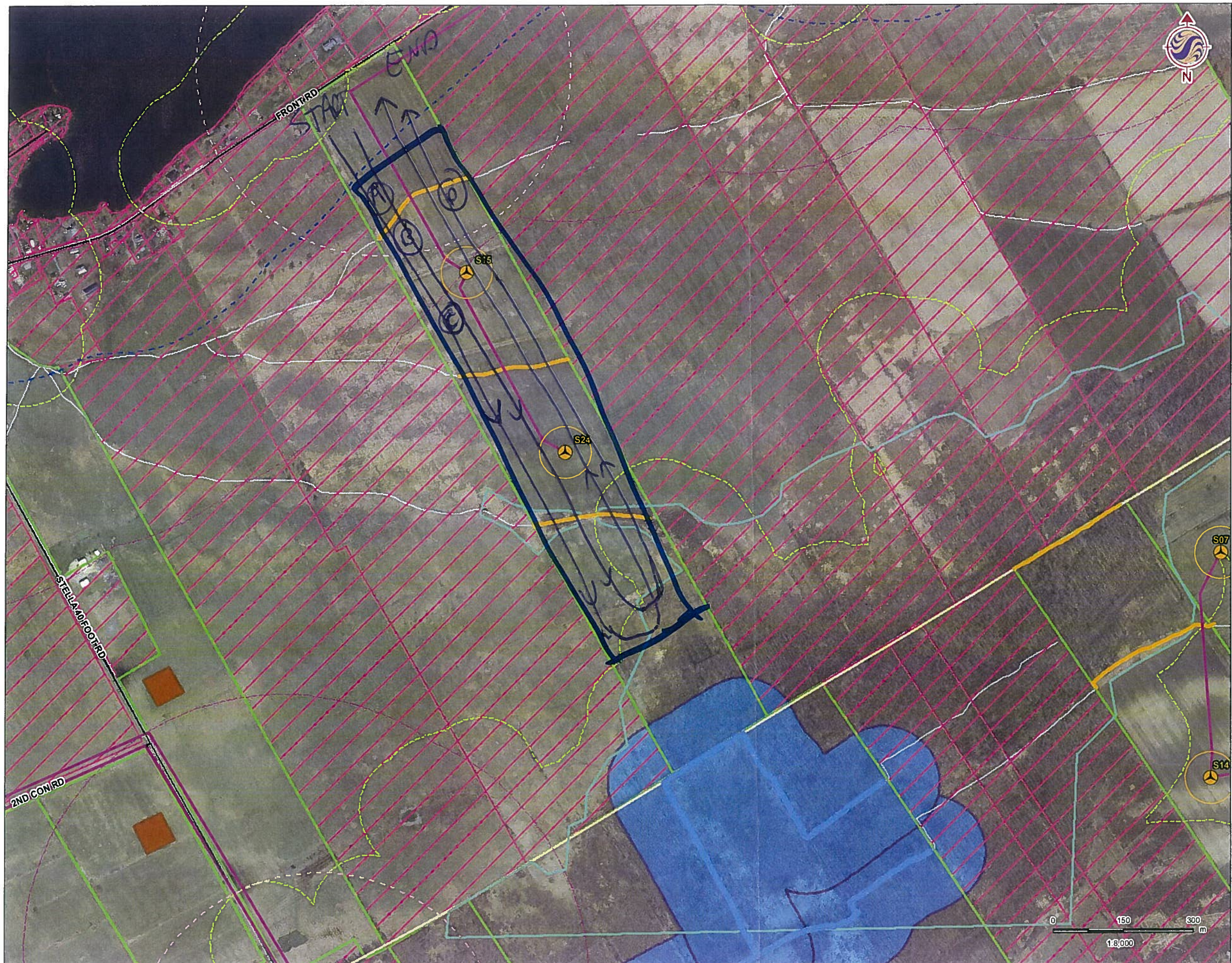
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November 2011
160960595

Client/Project
 WINDLECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
 Tile 7 of 19

Title
FIELD MAP - LAYOUT S15



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
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- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

- Notes**
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Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 13 of 19

Title
FIELD MAP - LAYOUT S15



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Project Number: 160960545 Project Name: Amherst
Date / Time: Feb 7, 12 Field Personnel: BH J.M.

Weather Conditions:	Temp: <u>0°C</u>	Wind: <u>3-4-NW</u>	Cloud: <u>8%</u>	PPT: <u>/</u>	PPT in last 24 hrs: <u>/</u>	Ave. Snow Depth: <u>/</u>
----------------------------	------------------	---------------------	------------------	---------------	------------------------------	---------------------------

Location as indicated on field map: Feb 7, 12 (A) (J)
Start time: 1:30 End time: 2:30

Species	# of Individuals	Location	Behaviour
		<i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	<i>Perched, Hunting, flying, height</i>
<u>(A) Snow</u>	<u>- 1</u>	<u>- roosting in Reed canopy grass</u>	<u>(A)</u>
<u>(B) Snow</u>	<u>- 2</u>	<u>" " "</u>	<u>(B)</u>
<u>(C) Snow</u>	<u>- 1</u>	<u>" " "</u>	<u>(C)</u>
<u>(D) Snow</u>	<u>- 1</u>	<u>- roosting on ice</u>	<u>(D)</u>
<u>Snow</u>	<u>roosting</u>	<u>in typical Snow spot.</u>	
<u>Grass</u>	<u>"platter"</u>	<u>than before.</u>	

All Marked

Due to ice / snow from previous weeks?

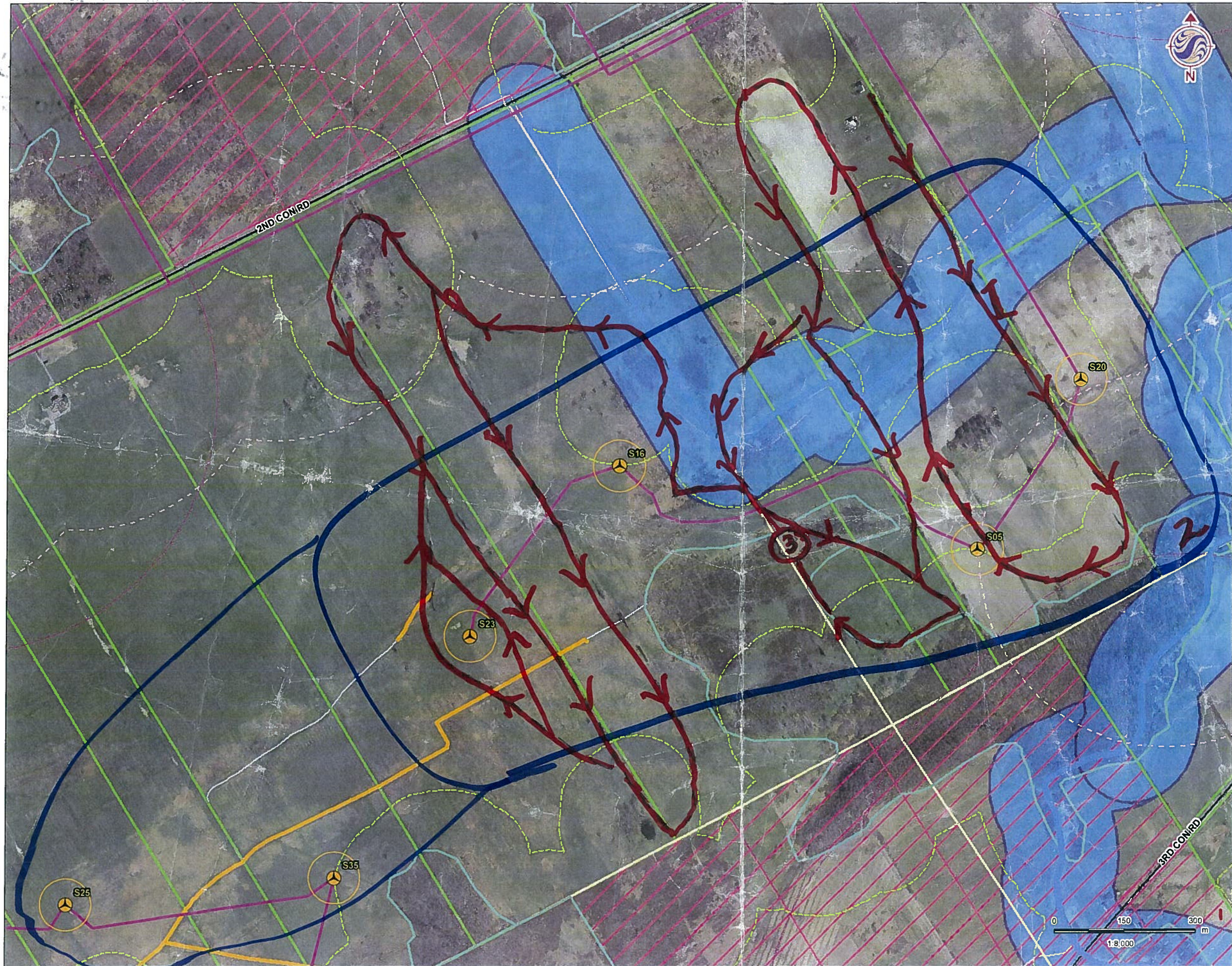
Quality Control: This form is complete () & legible ()

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

160960595

3a



- Legend**
- Study Area
 - Turbine (Layout S14)
 - Turbine Blade Tips (55m)
 - Collector Lines
 - Access Road
 - Laydown Area and Crane Pad
 - Turn Around Path
 - O & M Building
 - Potential Laydown and Storage Areas
 - Substation
 - Unopened Road Allowance
 - Road
 - Watercourse
 - Optioned
 - Not Optioned
 - Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- REA Waterbody
 - Not a REA Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
 - Non-Participating Noise Receptors (550m)
 - Wooded Area (120m)
 - Lake Ontario (300m)
 - PSW (120m)
 - Waterbody (120m)
 - Delineated Wetland (120m)

Notes

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November 2011
160960595

Client/Project
 WIND ELECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT

Figure No
 Tile 8 of 19

Title
FIELD MAP - LAYOUT S15



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Project Number: 160960595

Project Name: Amherst Island

Date / Time: Feb 22, 2012

Field Personnel: D. Graham

Weather Conditions:	Temp: <u>3°C</u>	Wind: <u>3</u>	Cloud: <u>100%</u>	PPT: <u>None</u>	PPT in last 24 hrs: <u>Rain</u>	Ave. Snow Depth: <u>0</u>
---------------------	------------------	----------------	--------------------	------------------	---------------------------------	---------------------------

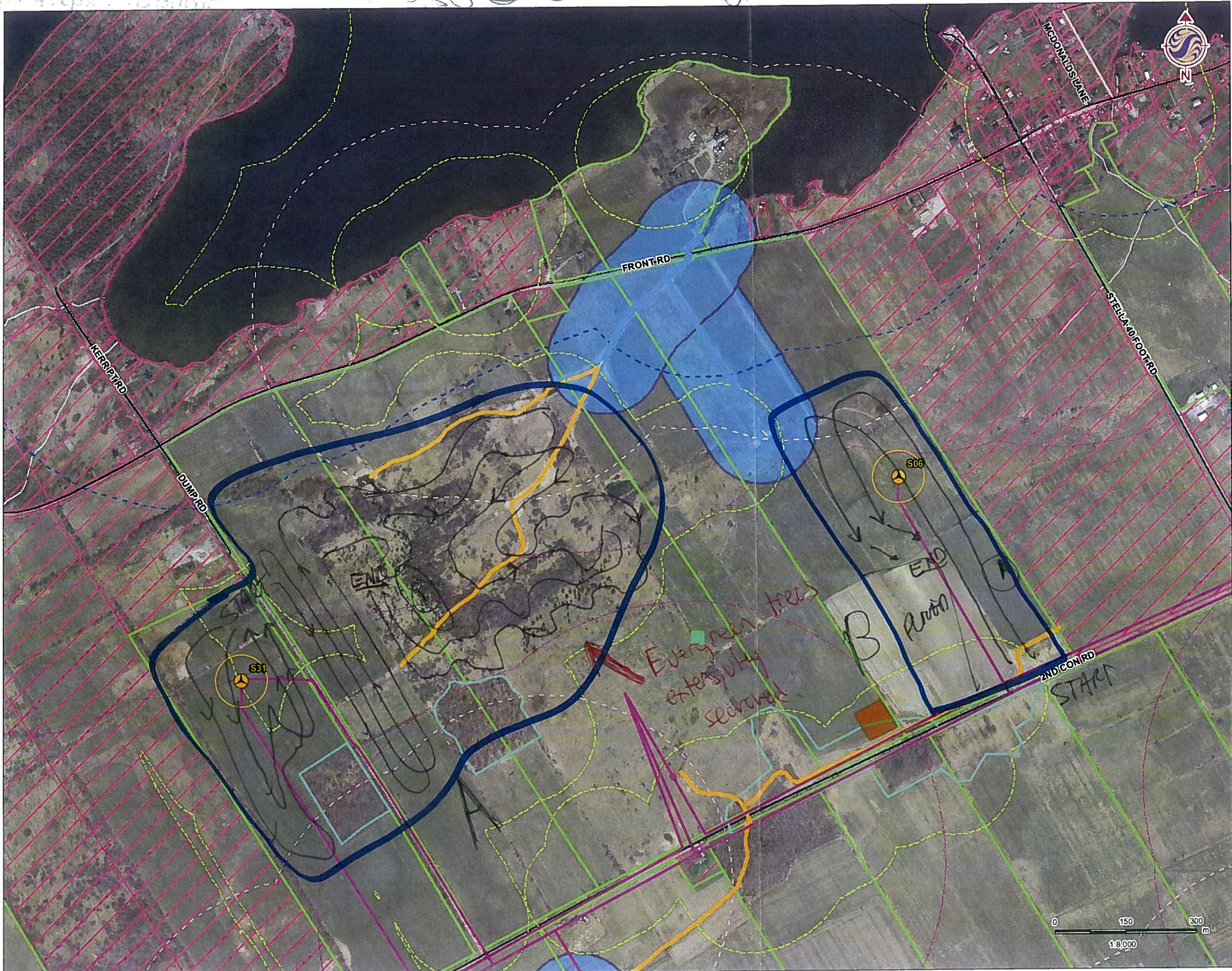
Location as indicated on field map: 3a (F)
Start time: 12:40 End time: 4:40

Species	# of Individuals	Location	Behaviour
1 SEOW	1	Habitat type, proximity to features (woodlands, ravines etc.) <u>In longer grasses (Canary grass) bordering watercourse</u>	Perched, Hunting, flying, height <u>Roosting</u>
2 RTHA NOHA	3 1	<u>Agricultural fields adj. to swamp</u> <u>Agricultural fields</u> <u>adj. to swamp</u>	<u>Apparent 1 pair a single</u> <u>Foraging</u>
3 SEOW	9	<u>Robust sedge wetland</u>	<u>Roosting</u>

Quality Control: This form is complete (✓) & legible (✓).

Signature: Dan Graham
(Field Personnel)

Signature: [Signature]
(Project Manager)



- Legend**
- Study Area
 - Turbine (Layout S14)
 - Turbine Blade Tips (55m)
 - Collector Lines
 - Access Road
 - Laydown Area and Crane Pad
 - Turn Around Path
 - O & M Building
 - Potential Laydown and Storage Areas
 - Substation
 - Unopened Road Allowance
 - Road
 - Watercourse
 - Optional
 - Not Optional
 - Delineated Wetland (Preliminary ONLY)
 - Waterbody Status**
 - REA Waterbody
 - Not a REA Waterbody
 - MRN Identified Wetlands**
 - PSW
 - Setbacks**
 - Participating Noise Receptors (400m)
 - Non-Participating Noise Receptors (550m)
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 - PSW (120m)
 - Waterbody (120m)
 - Delineated Wetland (120m)

- Notes**
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November 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 9 of 19

Title
FIELD MAP - LAYOUT S15



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Winter Raptor Roost Surveys

Project Number: 160960595 Project Name: Amherst
Date / Time: Feb 22, 12 Field Personnel: R. Holden J. Mansell

Weather Conditions:	Temp: <u>4°C</u>	Wind: <u>5-W</u>	Cloud: <u>20-30%</u>	PPT: <u>/</u>	PPT in last 24 hrs: <u>SNOW</u>	Ave. Snow Depth: <u>NONE</u>
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Location as indicated on field map: A (G) RAIN
Start time: 145 End time: 348

Species	# of Individuals	Location	Behaviour
		<i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	<i>Perched, Hunting, flying, height</i>
		① - 3 fresh pellets found, but no --- several dozen skulls found from previous years activity.	owls... under trees
Area on map: <u>B</u>		Start: <u>4:00</u>	End: <u>5:00</u>
① - SNOW	4:08 - (1)	resting beside fence post.	

Quality Control: This form is complete (✓) & legible (✓).

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

46



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
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- Road
- Watercourse
- Optional
- Not Optional
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- Waterbody Status**
- REA Waterbody
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- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
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- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

Notes

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November 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

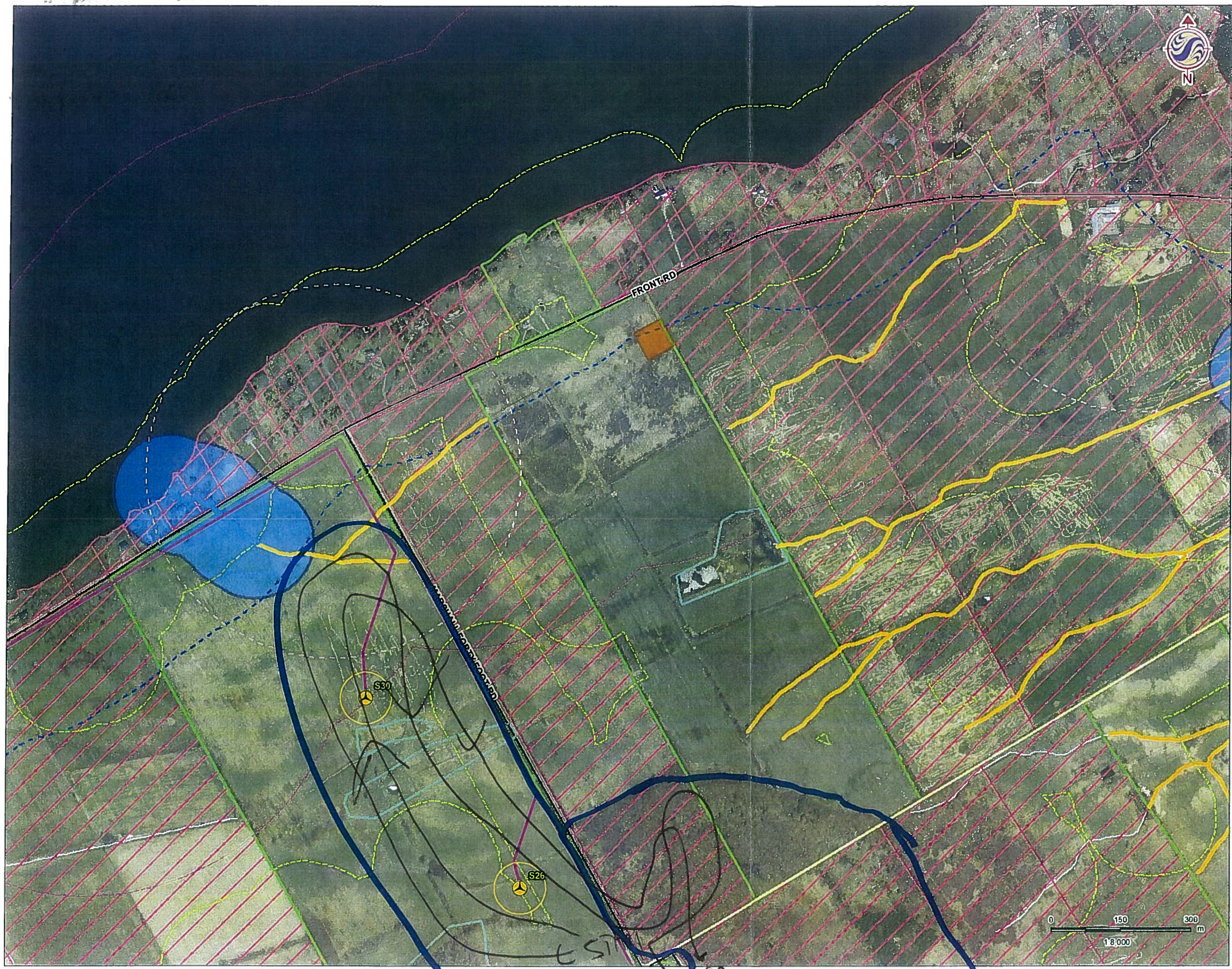
Tile 16 of 19

Title

FIELD MAP - LAYOUT S15



4a



- Legend**
- Study Area
 - Turbine (Layout S14)
 - Turbine Blade Tips (55m)
 - Collector Lines
 - Access Road
 - Laydown Area and Crane Pad
 - Turn Around Path
 - O & M Building
 - Potential Laydown and Storage Areas
 - Substation
 - Unopened Road Allowance
 - Road
 - Watercourse
 - Optioned
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November 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 15 of 19

Title
FIELD MAP - LAYOUT S15



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Winter Raptor Roost Surveys

Project Number: 160960525 Project Name: Amherst
Date / Time: Mar 7, 12 Field Personnel: B. Holden J. Maxwell

Weather Conditions:	Temp: <u>11°C</u>	Wind: <u>4-5-SSW</u>	Cloud: <u>light hca</u>	PPT: <u>/</u>	PPT in last 24 hrs: <u>/</u>	Ave. Snow Depth: <u>/</u>
----------------------------	-------------------	----------------------	-------------------------	---------------	------------------------------	---------------------------

Location as indicated on field map: 4A
Start time: 12:46 End time: 2:20

Species	# of Individuals	Location	Behaviour
(L)	<u>NO</u>	<u>roosting Raptors</u>	<u>Perched, Hunting, flying, height</u>
(M)	<u>NO</u>	<u>roosting Raptors.</u>	

Quality Control: This form is complete (☑) & legible (☑).

Signature: [Signature]

(Field Personnel)

Signature: [Signature]

(Project Manager)

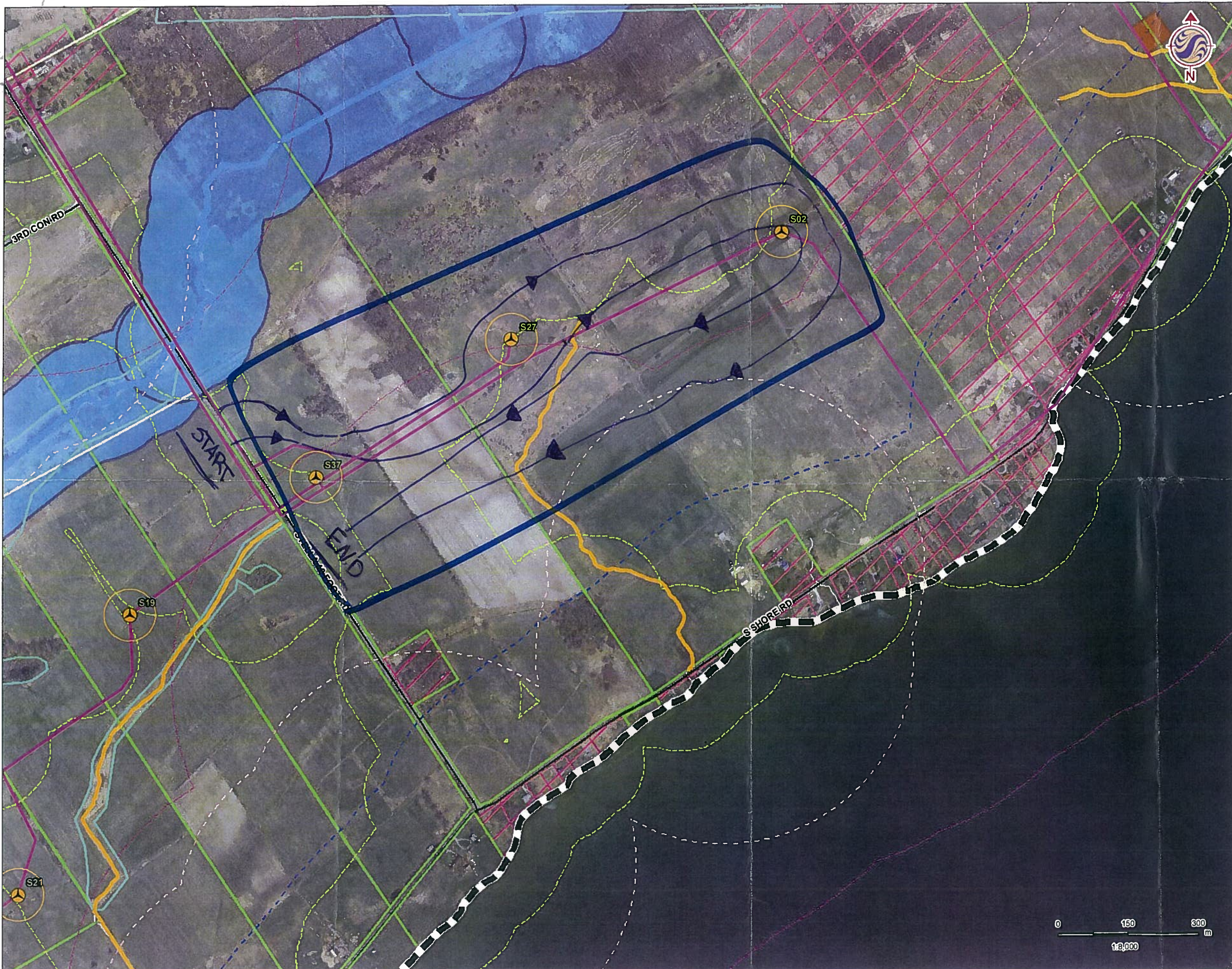
Page 1 of 1

REV: May, 07

Form 018

Field Map - Layout S15

59



- Legend**
- Study Area
 - Turbine (Layout S14)
 - Turbine Blade Tips (55m)
 - Collector Lines
 - Access Road
 - Laydown Area and Crane Pad
 - Turn Around Path
 - O & M Building
 - Potential Laydown and Storage Areas
 - Substation
 - Unopened Road Allowance
 - Road
 - Watercourse
 - Optional
 - Not Optional
 - Delineated Wetland (Preliminary ONLY)
 - Waterbody Status**
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 - Not a REA Waterbody
 - MRN Identified Wetlands**
 - PSW
 - Setbacks**
 - Participating Noise Receptors (400m)
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 - PSW (120m)
 - Waterbody (120m)
 - Delineated Wetland (120m)

- Notes**
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 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
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November 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 14 of 19

Title
FIELD MAP - LAYOUT S15





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

RAPID ROOST AREA SEARCH

Winter ~~Short-eared Owl~~
Observation Form

Project Number: 160960595

Project Name: Amherst Island

Date / Time: 13:30

Field Personnel: C. Korpimäki J. Mansell

Weather Conditions:

Temp:

25°C

Wind:

SW 10

Cloud:

0%

PPT:

0

PPT in last 24 hrs:

0

Ave. Snow Depth:

0

(K)

total km driven on survey

Time	# of Individuals	Location	Behaviour
		<i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	<i>Perched, Hunting, flying, height</i>
<p>↖ No BIRDS ↘</p>			

Quality Control: This form is complete () & legible ().

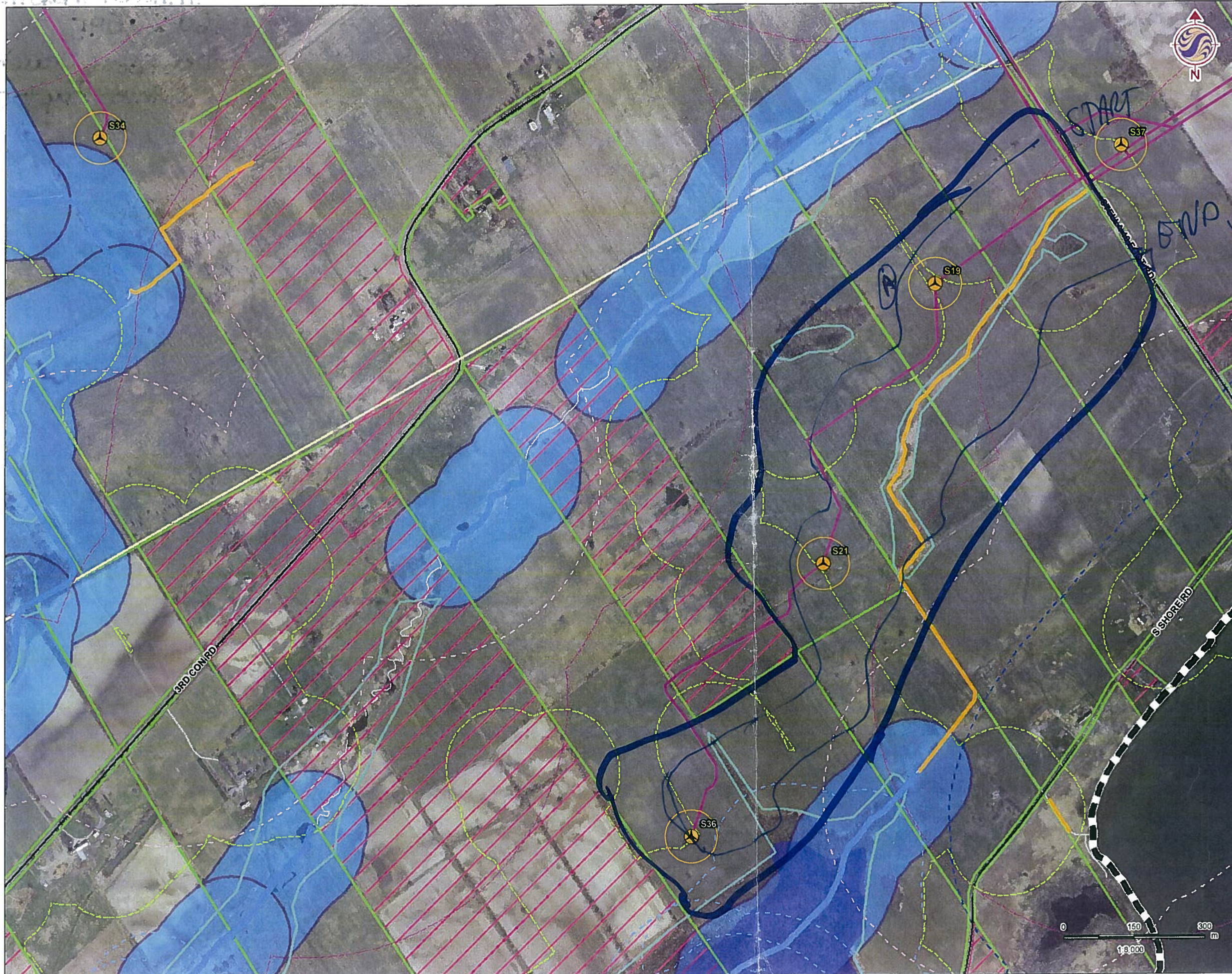
Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 1

REV: May, 07

Form 022



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
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- Road
- Watercourse
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- Waterbody Status**
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- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

56

Spread
4
people
wide.

Notes

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2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
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November 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 11 of 19

Title

FIELD MAP - LAYOUT S15



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 838-6050
Fax: (519) 838-2493

Winter Raptor Roost Surveys

Stantec

Project Number: 160960 525 Project Name: Amherst

Date / Time: Mar 20, 2012 Field Personnel: CK BH JM NC

Weather Conditions:	Temp: <u>72°C</u>	Wind: <u>/</u>	Cloud: <u>/</u>	PPT: <u>/</u>	PPT In last 24 hrs: <u>/</u>	Ave. Snow Depth: <u>/</u>
---------------------	-------------------	----------------	-----------------	---------------	------------------------------	---------------------------

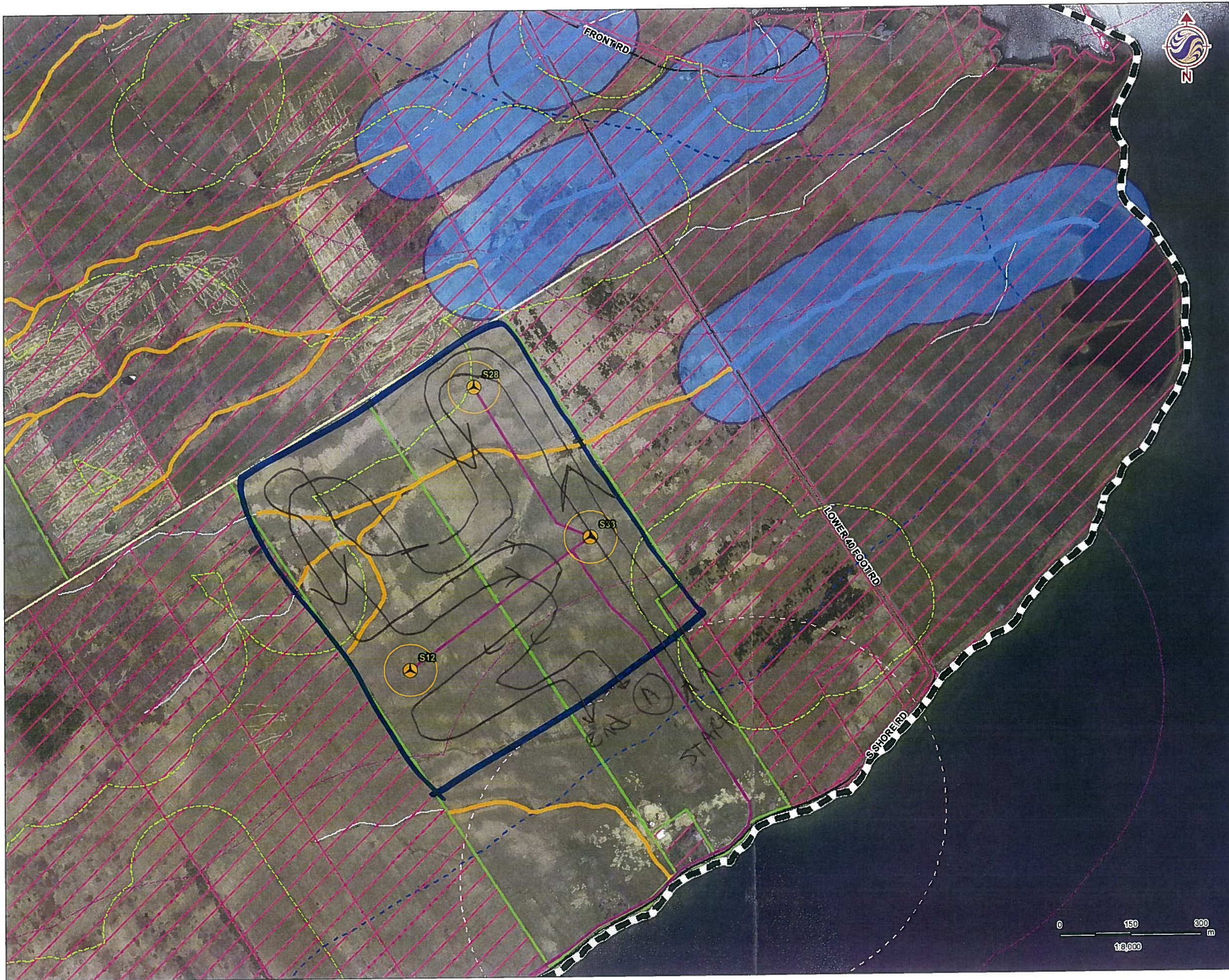
Location as indicated on field map: SB (I)
Start time: 3 AM End time: 4:30pm

Species	# of Individuals	Location	Behaviour
(A) <u>Screech</u> <u>3:20pm</u>	<u>1</u>	<u>Habitat type, proximity to features (woodlands, ravines etc.)</u> <u>roosting on tall grass</u>	<u>Perched, Hunting, flying, height</u> <u>..</u> <u>— flushed to 35m</u>

Quality Control: This form is complete (✓) & legible (✓)
Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

5a



Legend

- Study Area
- Turbine (Layout S14)
- Turbine Blade Tips (55m)
- Collector Lines
- Access Road
- Laydown Area and Crane Pad
- Turn Around Path
- O & M Building
- Potential Laydown and Storage Areas
- Substation
- Unopened Road Allowance
- Road
- Watercourse
- Optional
- Not Optional
- Delineated Wetland (Preliminary ONLY)
- Waterbody Status**
- RE Waterbody
- Not a RE Waterbody
- MRN Identified Wetlands**
- PSW
- Setbacks**
- Participating Noise Receptors (400m)
- Non-Participating Noise Receptors (550m)
- Wooded Area (120m)
- Lake Ontario (300m)
- PSW (120m)
- Waterbody (120m)
- Delineated Wetland (120m)

Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

November 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 17 of 19

Title

FIELD MAP - LAYOUT S15



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Winter Raptor Roost Surveys

Project Number: Amherst

Project Name: 160960595

Date / Time: Mar 20, 2012

Field Personnel: B. Holden N. Chaffron

Weather Conditions:	Temp: <u>16°C</u>	Wind: <u>/</u>	Cloud: <u>/</u>	PPT: <u>/</u>	PPT in last 24 hrs: <u>/</u>	Ave. Snow Depth: <u>/</u>
----------------------------	-------------------	----------------	-----------------	---------------	------------------------------	---------------------------

Location as indicated on field map: 5a (N)
Start time: 1:45 End time: 3:10

Species	# of Individuals	Location	Behaviour
		<i>Habitat type, proximity to features (woodlands, ravines etc.)</i>	<i>Perched, Hunting, flying, height</i>
	<u>No Roosting Raptors</u>		
<u>Ⓐ</u>	<u>Least Weasel</u>	<u>observed in rock pile.</u>	

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 1

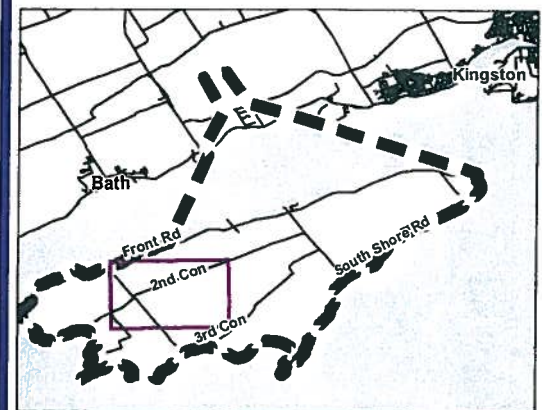
REV: May, 07

Form 018



Legend

- Study Area
- Road
- Watercourse
- Amphibian Station
- Property Status**
- Optioned
- Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

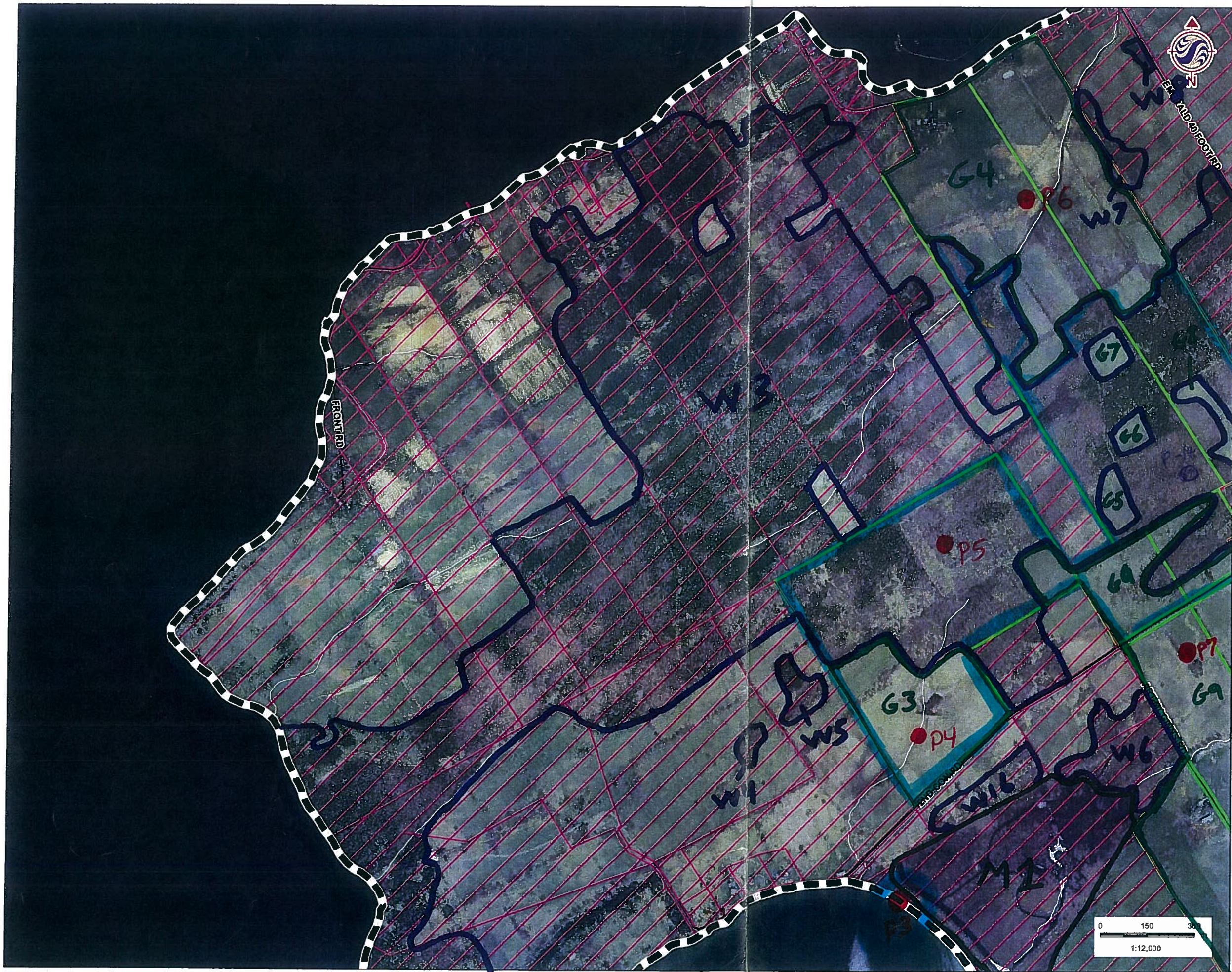
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.







Tile 3

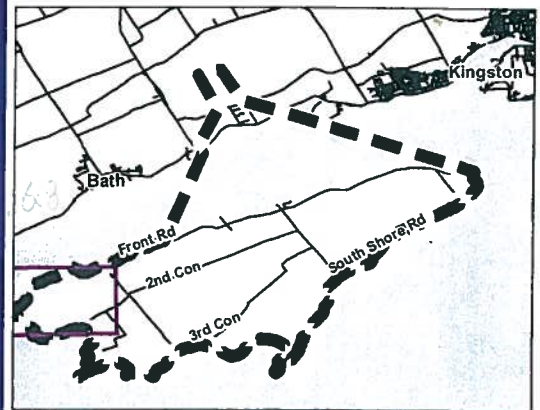
Title

FIELD MAPBOOK



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 1

Title
FIELD MAPBOOK



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 160960595

Project Name: Amherst

Date: May 30/2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>1 N-W</u>	CLOUD: <u>60%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>T storms</u>
---------------------	-------------------------	-----------------------	----------------------	------------------	--

Feature No.: W5 Habitat Type: Woods Time Start: 7:45 Time End: 7:55

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

↳ young trees + brushy next to pond & grasses

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	1	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	2 5
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	1 5
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	1 5	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	1	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	1 H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 2

Signature: _____

Pete Read
(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

Karin
(Project Manager)

part with P5 in it. see maps

May 30

Feature No.: W3 Habitat Type: brushy woods Time Start: 7:50 Time End: 8:49

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	5	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	10 ⁺ P
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡	1 5	Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	2 ⁺ 5
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	2 5
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	10 ⁺ P
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	10 ⁺ 5	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.	4 ⁺ 5	Gray Catbird	5 5	Rose-br. Grosbeak †	3 ⁺ 5
Red-tailed Hawk		Willow Fly. †	2 ⁺ 5	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	2 5	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.	2 ⁺ 5	Cedar Waxwing	H	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	1 H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	3 ⁺ D
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	5	Warbling Vireo		Yellow Wa.	10 ⁺ P	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo	5	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull * flyover	H	Blue Jay	2 P	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	1 ⁺ H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	2 ⁺ P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart. * flyover	H	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡	1 5		
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

‡ using area perhaps not nesting

Pg. 1 of 5

Signature: _____

Peter Read
(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

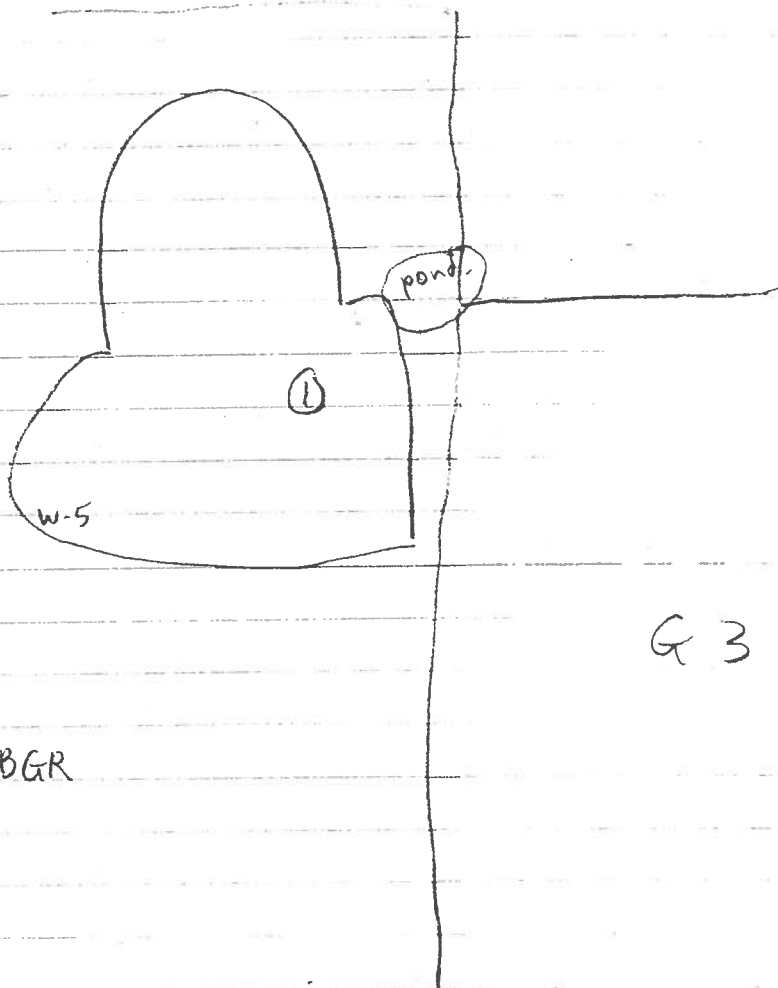
Karin
(Project Manager)

Map for W5

May 30/2

page 2 of 2.

N ↑



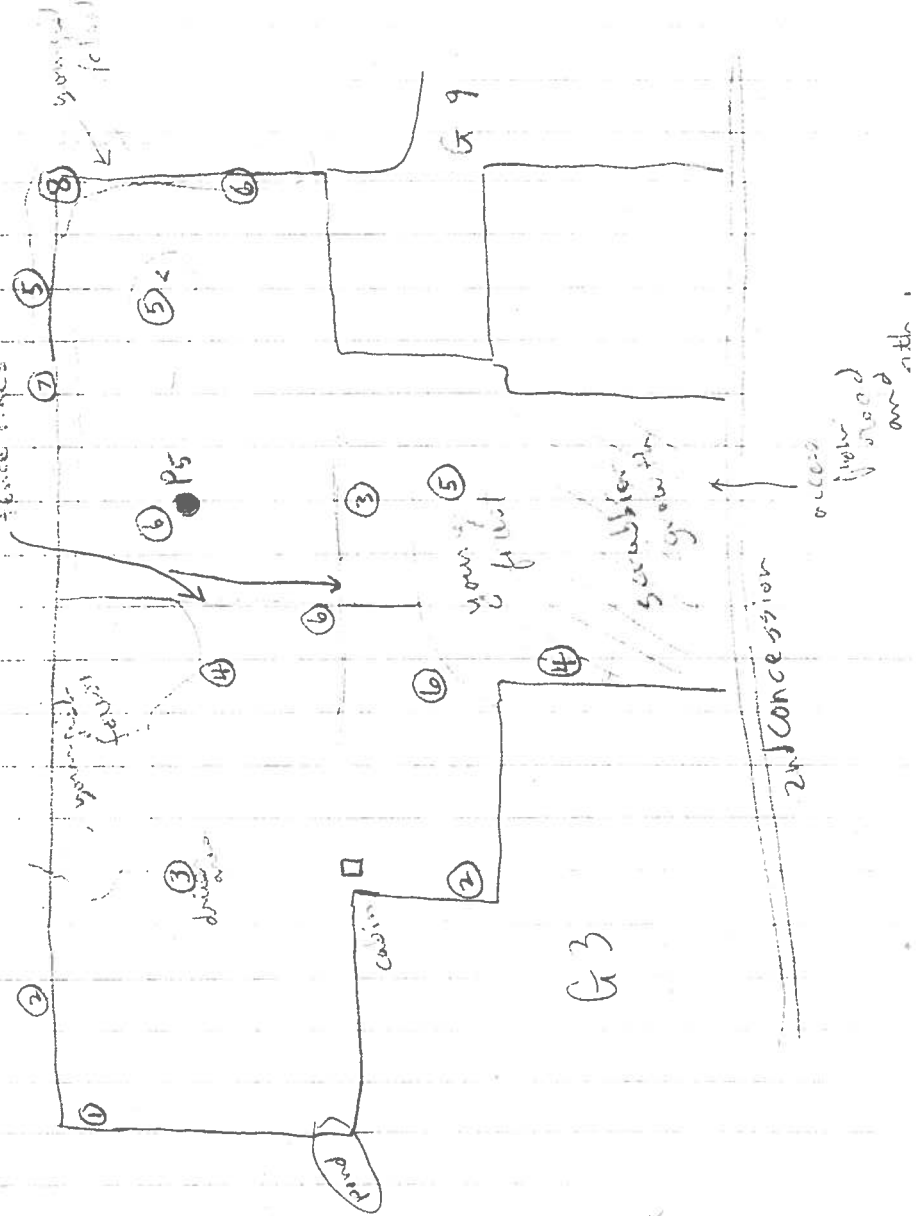
1 RBGR

G 3

pt of 5 map W3 part with P5 May 3
 (north of cone 3 west of Emerald)

N ↑

- a) wet brushy areas with alder/dogwood
- b) small evergreen areas
- c) a few more young forest patches



- ① EAKI
- ② BRTH
- ③ WIFL
- ④ FISP
- ⑤ RBGR
- ⑥ EPTD
- ⑦ PIWA
- ⑧ BRCK

parts around G9 G5 G6 G7 G8

Feature No.: W-3 Habitat Type: - mixed woods Time Start: 9:00 Time End: 10:00
- open woods

Record location of all significant species on site map. - yng forest

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species
 T W C PPT PPT last
 20 1(N) 40 0 T-storms.

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †	1 S	Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	3 S
Mallard		Gr. Horned Owl		Bl-capped Chickadee	1 H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	3 S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡†	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡†	
Pied-b. Grebe		Whip-poor-will ‡†		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	1 S	Eastern Towhee †	4 S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	7 S
N. Harrier ‡†		No. Flicker †	1 H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	2 S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	3 S	No. Cardinal	1 S
Red-shou. Hawk ‡†		Alder Fly.	3 S	Gray Catbird	2 H	Rose-br. Grosbeak †	2 S
Red-tailed Hawk		Willow Fly. †	1 S	No. Mockingbird		Indigo Bunt.	1 S
Am. Kestrel †	1 H	Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.	2 S	Cedar Waxwing	1 H	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	1 H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	3 S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo	1 S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	2 H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	1 H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven	2 H	Yel-rumped Wa. ‡		Am. Goldfinch	1 H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡		WIWA (migrant)	5
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡†			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.



- ⑥ EATO } see earlier
- ⑧ BRCR } sheet
- ① OVEN
- ② RDGR
- ③ BBCU
- ④ WOTH
- ⑤ WIFL
- ⑦ FISP
- ⑨ NOFL
- ⑩ AMKE

Pg. 3 of 5

Quality Control: This form is complete & legible .

Signature: Peter Reed
 (Field Personnel)

Signature: Kathie Su
 (Project Manager)

north of 2nd concession (in part see May 30 for south of 2nd concession) May 30/2011

Feature No.: G 9 Habitat Type: plowed up wet grassland Time Start: 8:49 Time End: 9:00

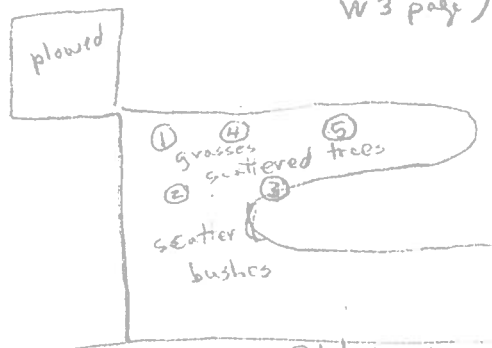
Record location of all significant species on site map. b) + grassland - some with shrubs + trees. May 31 9:08 - 9:40 to 10:25 as walked on 2nd conc.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † * 2 5	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † * 1 5	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † 1 5	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. † 1 5	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker † * 1 H		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † * 2* 5		No. Mockingbird		Indigo Bunt.	
Am. Kestrel † 1 H		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † 1 5	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe 5		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* using edge of field and field (will add to W 3 page)



Date	T	W	C	PPT	PPT last
May 30 1st	20	1	40	0	T-storm
May 30 2nd	23	1	40	0	T-storm
May 31 3rd	22	1	<10	0	0

① EAME ③ FISP ⑤ GRSP
 ② SAVB ④ CHTO

Pg. 1 of 1

Signature: Peter Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Katrin Sw
 (Project Manager)

Feature No.:

G5

Habitat Type:

grassland

Time Start:

9:05

Time End:

9:20

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

+ small "fen"

T W C PPT PPT L24
21 1-N-W 40 0 T-st.

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee * †	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † * 1 5	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † * 1 5	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † * 1 5		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. 1 H	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* birds at edge - may be using field but not nesting (will be added to W3)
 → only BHCO found in field.

Pg. 1 of 1

Signature:

Peter Beal
 (Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Karin
 (Project Manager)

May 30

Feature No.: G6 Habitat Type: grassy meadow Time Start: 9:20 Time End: 9:30

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

T W C PPT PPT L24
 21 1-N-W 40 0 T-St.

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡ * 1 5	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † * 1 5	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † * 1 5		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak † * 1 5	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † 1 5	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo 1 5		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow ‡ 1 H		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* birds found in edge - using field but not nesting (add to page 3 for W3)

→ only BOBO in field



Pg. 1 of 1

Signature: Peter Road
 (Field Personnel)

Quality Control: This form is complete & legible .

Signature: Karin Sun
 (Project Manager)

Feature No.:

Habitat Type:

grassy

Time Start:

Time End:

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

pasture
T W C
21 1-11 30 0

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡ * 3	5
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat * 1	5
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡†	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡†	
Pied-b. Grebe		Whip-poor-will ‡†		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † * 1	5
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. * 1	5
N. Harrier ‡†		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin * 1	5	No. Cardinal * 1	5
Red-shou. Hawk ‡†		Alder Fly.		Gray Catbird		Rose-br. Grosbeak † * 1	5
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt. * 1	5
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † 4	P
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing* 1	H	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. * 1	5	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven * 2	H	Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡†			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* observed in edge of G7 not nesting in it. (will be put on map on p 3 of W
→ y BOBO d actual in or over field.

Pg. ___ of ___

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Kerri R

(Project Manager)

REV: 2011-05-27 / FORM 031

May 30

Feature No.: G-8 Habitat Type: hay / pasture wet in spots Time Start: 9:45 Time End: 9:54

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species
T W C PPT PPT last yr
23 1-N 30 0 T-storm

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo † * 1	5	Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat * 2	5
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren * 1	5	Eastern Towhee † * 1	5
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. * 6	5
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † * 1	5	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly. * 1	5	Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly. * 2	5	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. * 2	5	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo * 1	5	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay * 2	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow * 1	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch * 1	H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡		WIWA (migrant) 5	
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* observed in edge - may be using - have put page 3 map of W3) but not nesting.

→ No birds seen in this grassy area or flying over.

Pg. 1 of 1

Signature: Peter Road
(Field Personnel)

Quality Control: This form is complete & legible

Signature: Karin
(Project Manager)

Feature No.: G 3 Habitat Type: grassland/pasture Time Start: 7:15 Time End: 7:45

Record location of all significant species on site map.

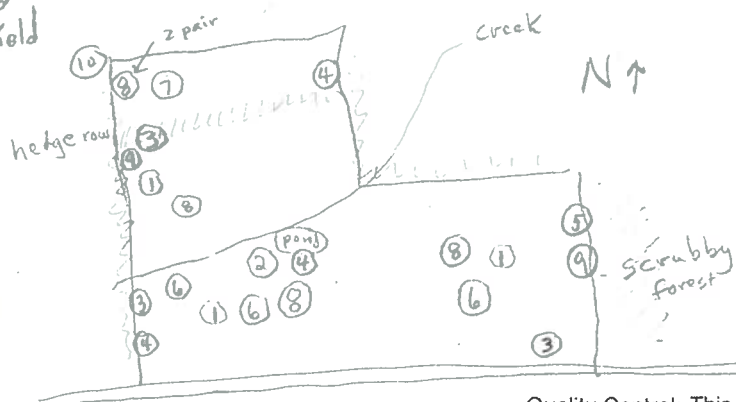
** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

T-18° C-70% edge of field
 W-1 N-W PPT-0 PPT-last T-storm

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern * ←	H?	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher † * ←	X#	Sedge Wren		Clay-colored Sp.	
G. B. Heron * flyover	H	Red-headed Wo** †		Marsh Wren		Field Sp. †	S
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	3+ S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	1 S
Osprey		Hairy Wo.		Veery		Song Sp.	5+ S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin *	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	2 H	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	2+ H	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	2 H	Bobolink †	8+ P
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	8+ S
Sora		Gr. Crested Fly.		Cedar Waxwing *	2 P	Ea. Meadowlark †	3+ S
Killdeer		Ea. Kingbird †	2 H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	1 S	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	1 S	Warbling Vireo		Yellow Wa.	2 S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay *	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow *	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart. * near pond	H	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow * at pond	H	Pine Wa. ‡			
Mourn. Dove * 2 flyover	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* at edge of field likely using field
 * ← found on scouting trip May 31 AMBL and BEKI likely feeding and not nesting



- ① EAME
- ② UPISA
- ③ EAKI
- ④ BRTH
- ⑤ FISP
- ⑥ SAVS
- ⑦ GRSP
- ⑧ BOBO
- ⑨ WIFL
- ⑩ RBGR

Pg. ___ of ___

Quality Control: This form is complete & legible .

Signature: _____
 (Field Personnel)

Signature: Karri R
 (Project Manager)

May 30

Feature No.:

M1

Habitat Type:

marsh

Time Start:

5:50

Time End:

7:15

Record location of all significant species on site map.

T-16°

CC - 80%

PPT - T-storms last

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

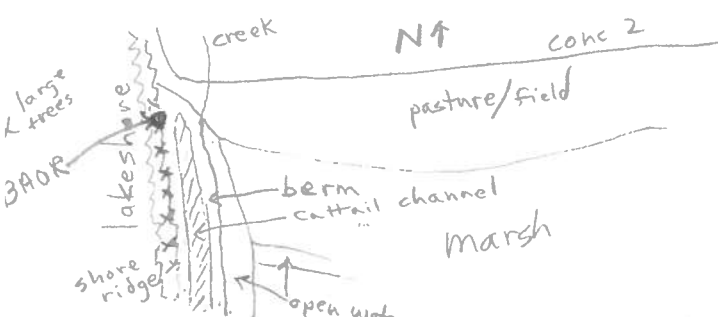
W-0 N-W

PPT-0

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	P	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.	H	Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard	H	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	H
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron	H	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	H
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	H
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin *	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	S
Sora		Gr. Crested Fly.		Cedar Waxwing *	H	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo		Yellow Wa. *	H	Baltimore Oriole † *	H
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay *	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow *	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart. *	H	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* edge species (H means on or near marsh habitat but likely just using area)



* N. watersnake < 1 metre eating small catfish at lake edge near where oriole was.

Pg. 1 of 1

Signature: Pete Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Kurti
(Project Manager)



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595

Project Name: Amherst

Date May 30/01

Field Personnel: Pete Read

Weather Conditions:	Temp: <u>16</u>	Wind: <u>0</u>	Cloud: <u>80%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>N</u>
---------------------	-----------------	----------------	-------------------	---------------	------------------------------

GPS #: T1

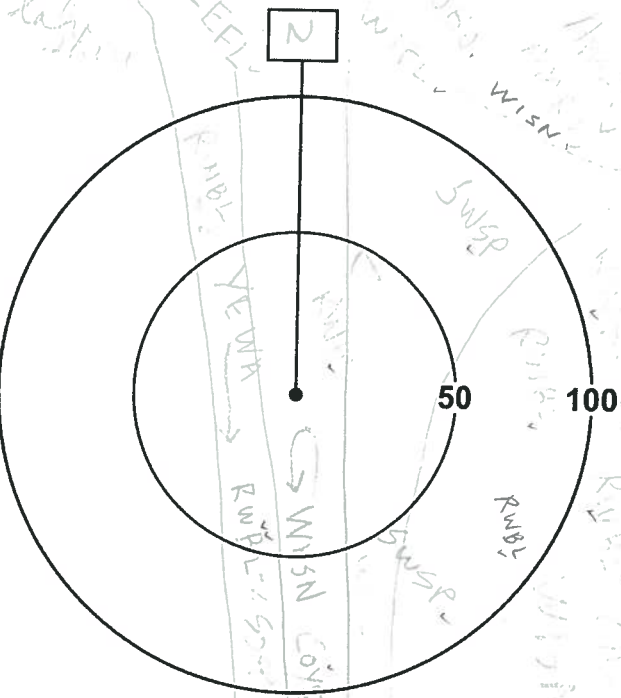
Station: P3 *small brushy area + along lake edge of lake*

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 0359428 4886833

Start Time: 6:10

Species	<50 m	50-100 m	>100m	Flyovers	Height*
RWBL	3	2	2		all A
SWSP		2	1		all <u>B</u>
WISN	1	1	2		all A
WODU				9	A
CAGO			2		<u>O</u> ^m water
COYE		1			A
YEWA	1				A
SOSP		1			A
WIFL	1		1		A
LEFL			1		A
AMCR			1		A
BLJA			1		A
BOBO			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)

Signature: Pete Read
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 4

May 30

Station: P4 *see over also.*

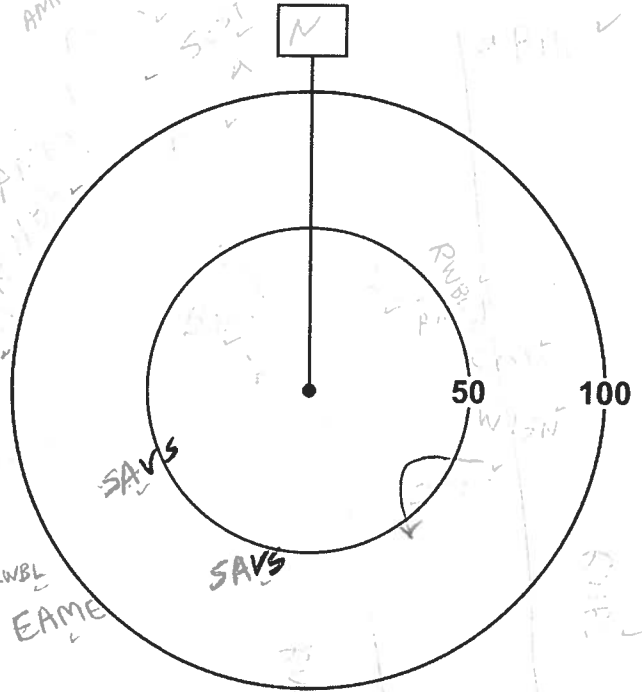
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 0357384 4887391 T-1

Start Time: 7:30

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BOBO	1	2			A
SAVS		2			A/O
EAME			1		A
WISN		1			A
COVE		1			A
RWBL		1	4		A
KILL		1			A
WIFL			1		A
AMRO			2		A
YEWA			1		A
SOSP			1		A
EATD			1		A
RBGR			1		A

see over



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

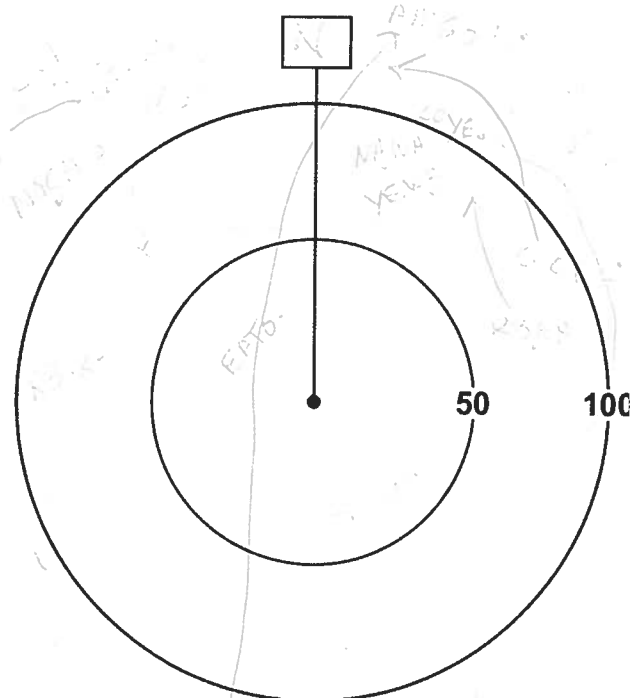
Station: P5

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 0357411 4887996 T-1

Start Time: 8:20

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EATD	1				A
SOSP	1				A
RBGR		2			A
NAWA		1			B
YEWA		1			B
COVE			1		A
GCFL		1			A
AMRO				1	B
NOCP				1	A

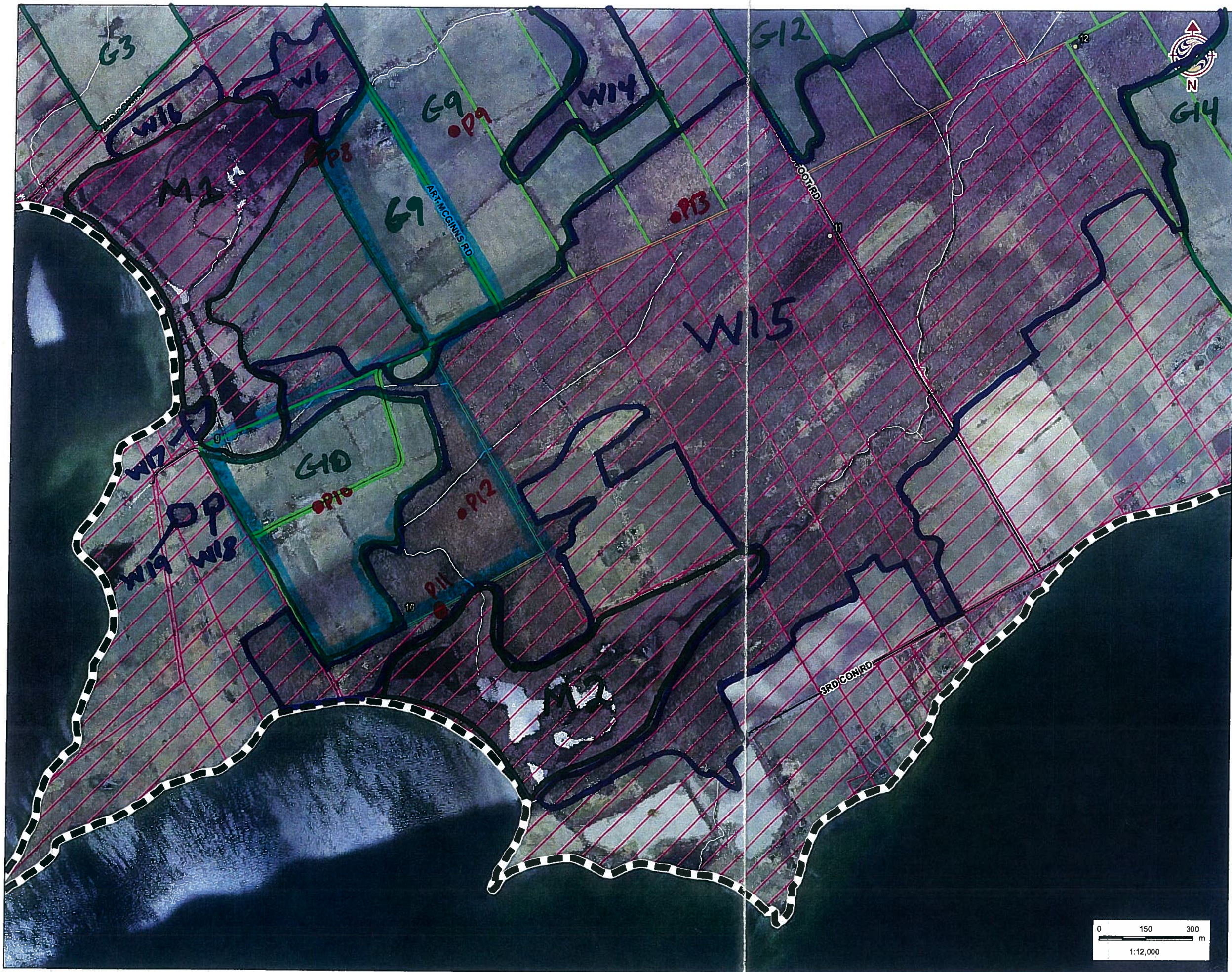


*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep






Quality Control: This form is complete (✓) & legible (✓)

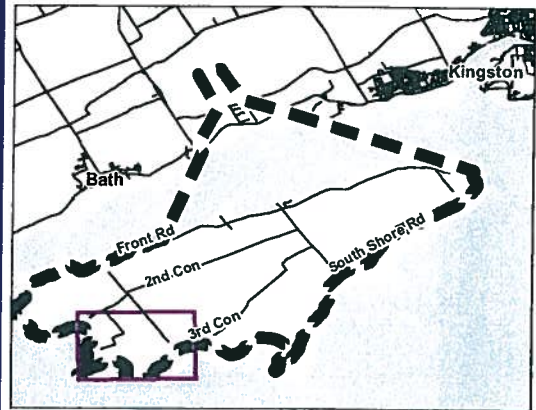
Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 2

Title

FIELD MAPBOOK





Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 160960595

Project Name: Amherst

Date: May 31, 2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>15</u>	<u>0</u>	<u>10 %</u>	<u>0</u>	<u>0</u>

Feature No.: W6 Habitat Type: deciduous woods ^{some wet swampy bits} Time Start: 5:00 Time End: 6:10

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern (noted from roadside)
 † Partners In Flight (kept track as watched + listened from marsh MT)
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	5	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	2 5
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	5	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	3 5
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † ^{see map over}	5	Am. Robin	3 5	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	1 5	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.	5	Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	2 H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 8

Quality Control: This form is complete & legible

Signature: Peter Read
 (Field Personnel)

Signature: Karim
 (Project Manager)

REV: 2011-05-27 / FORM 031

East end (see also west end May 30)

Feature No.: M 1 Habitat Type: marsh Time Start: 5:15 Time End: 6:10

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

with pasture forest edge

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow	H	Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee *	S	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern	H	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. *	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † *	S	Am. Robin *	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel † *	P	Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail	T	Ea. Phoebe		European Starling	S	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo		Yellow Wa. *	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡	H	Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡		Common Merganser	D
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡		Common Moorhen	S

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* edge species perhaps using marsh for food etc but not nesting in marsh
 - Male COME pursuing female closely - later observed flying over place she landed.



Pg. 2 of 8

Signature: Peter Reed
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: Karin Smith
 (Project Manager)

in part (south of 2nd Conc. - see also May 30)

May 31

Feature No.: G 9 Habitat Type: Grasslands Time Start: 6:10 Time End: 6:19

Record location of all significant species on site map. - as drove south on Art McGinnis Rd.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

T W C PPT
 18 1 NE <10 0

Species	BE*	Species	BE*	Species	BE*	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡
Wood Du.		Black-b Cuckoo †		Cliff Swallow	H	Am. Redstart ‡
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat 1 S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † 2+ S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †
Osprey		Hairy Wo.		Veery		Song Sp. 1 S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. 1 S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †
Red-tailed Hawk		Willow Fly. † 3	S	No. Mockingbird		Indigo Bunt.
Am. Kestrel †	F	Least Fly.		Br. Thrasher †		Bobolink † 3+ S
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † 3+ S
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.
Upla. Sandpiper ‡	1 S	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole
Wilson's Snipe	S	Warbling Vireo		Yellow Wa.		Baltimore Oriole †
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...
Rock Dove		Tree Swallow	H	Pine Wa. ‡		
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡		

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.



Pg. 3 of 8

Signature: Peter Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Katri
 (Project Manager)

May 31/2011

T W C PPT
28 1 NE <10 0

Feature No.: G10 Habitat Type: Grass/Pasture/Hay Time Start: 6:20 Time End: 7:00

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

paddock area (2) 8:45 to 9:00

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	4 X	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	2+ H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	2 S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch	2+ H	Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	2 S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	3 S
N. Harrier †‡	1 H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	1 S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	4 S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	2 S
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	lots D
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	2 S
Killdeer	3 H	Ea. Kingbird †	3 H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	1 H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	2 S	Warbling Vireo		Yellow Wa.	5 S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull *	X	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	1 H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	4 H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.



- ① EAME
- ② BOBO
- ③ EAKI
- ④ SASP
- ⑤ NOHA

Pg. 4 of 8

Signature: Peter Reed
(Field Personnel)

Quality Control: This form is complete & legible
Signature: [Signature]
(Project Manager)

in part - west end

May 31

Feature No.: W-15 Habitat Type: Deciduous Woods Time Start: 7:10 Time End: 8:46

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

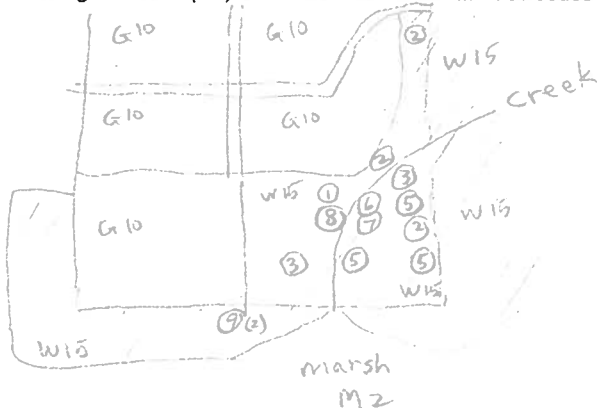
very wet in spots
- from brushy edges near
pasture
to mature closed canopy

- observed as covered
Marsh (M-2)
and walked through for PC 12

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee 1	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch 2	H	Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	1 H
D. C. Cormorant ‡		Chimney Swift** †		House Wren 3	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡ 1	H	B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. 5+	S
N. Harrier †‡		No. Flicker † 3	D	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † 3	S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † 3	S	Am. Robin 10+	S	No. Cardinal 1	S
Red-shou. Hawk †‡		Alder Fly. 2	S	Gray Catbird		Rose-br. Grosbeak † 2	S
Red-tailed Hawk		Willow Fly. † 2	S	No. Mockingbird		Indigo Bunt.	1
Am. Kestrel †		Least Fly. 1	S	Br. Thrasher †		Bobolink †	1
Virginia Rail		Ea. Phoebe		European Starling 5	H	Red-winged Bl. 5+	D
Sora		Gr. Crested Fly. 3	S	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle 2	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo 1	S	Yellow Wa.		Baltimore Oriole † 2	S
Am. Woodcock		Red-eyed Vireo 3	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay 2	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow 1	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven ** 1	X	Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡* 1	X	House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove 1	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* fly over
CORA



- ① NOFL
- ② WOTH
- ③ BHOR
- ④ RBGR
- ⑤ EWPE
- ⑥ YBSA
- ⑦ BTGN
- ⑧ SCTA
- ⑨ WIFL

* ♀ migrant (no nest trees)
BTGN

Pg. 5 of 8

Signature: Peter Road

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: Katrin

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

M2

Habitat Type:

marsh + swamp
- forest + pasture edge

Time Start:

7:00

Time End:

8:00

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	H	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch ← 1	H	Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren ← 1	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren	2 S	Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	2 S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal ← 1	S
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	7 T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	2 H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	1 S	Warbling Vireo ← 1	S	Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

→ swamp forest in S half of Pt Ct. 11

Pg. 6 of 8

Signature:

Peter Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Katrin

(Project Manager)

REV: 2011-05-27 / FORM 031

May 31/2011

T W C PPT
21 2 NE <10 0

Feature No.: G 9 Habitat Type: Grassland Time Start: 9:08 Time End: 9:20

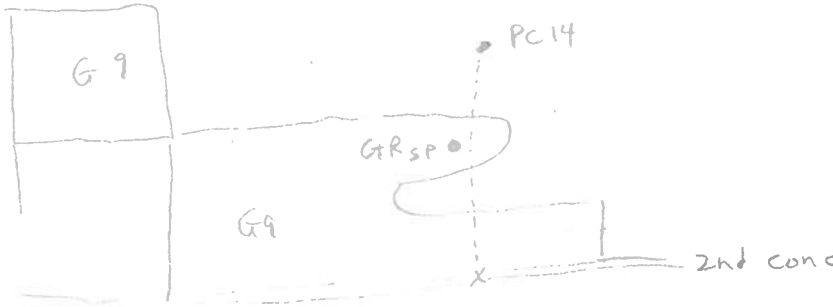
Record location of all significant species on site map.

- walking through to go to W3 +
PC13

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	1 5
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier ‡‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk ‡‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	2 T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.



Pg. 7 of 8

Signature: Peter Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Kathie
(Project Manager)

① part with P14 in it (see also May 30/2011 for more W-3)
 ② part along Emerald N. of 2nd Concession

Feature No.: W-3 Habitat Type: deciduous woods Time Start: 9:08 Time End: 9:45

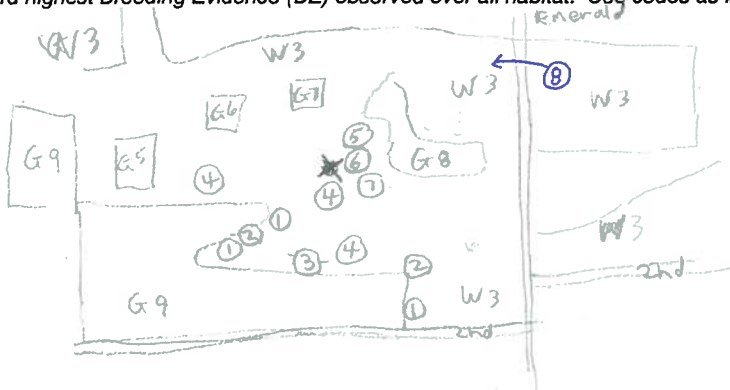
Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

some scrubby open
 some more closed older
 ② ~~evergreen~~ (red cedar/juniper) woods S.J. 9:50
 ET- 10:00 May 31

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	1 S
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡	1 S	Canada Wa. ‡	
Pied-b. Grebe		Whip-poor-will ‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	3 S
Am. Bittern		Ruby-thr. Humming. ←*	H	Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	2 S
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier ‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
→ Sharp-sh. Hawk ‡ * 1	H	Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	1 S	Am. Robin	1 1	No. Cardinal	
Red-shou. Hawk ‡		Alder Fly.		Gray Catbird ←*	1	Rose-br. Grosbeak †	1 S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	1 S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.	1 S	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe ←* 1	S	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo	3 S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull flyover 1	X	Blue Jay	2 H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.



- ① EATO
- ② FISP
- ③ BRTH
- ④ RBGR
- ⑤ OVEN
- ⑥ BRCR
- ⑦ EWPE
- ⑧ SSNA

← birds marked with arrow and * seen in (2) only

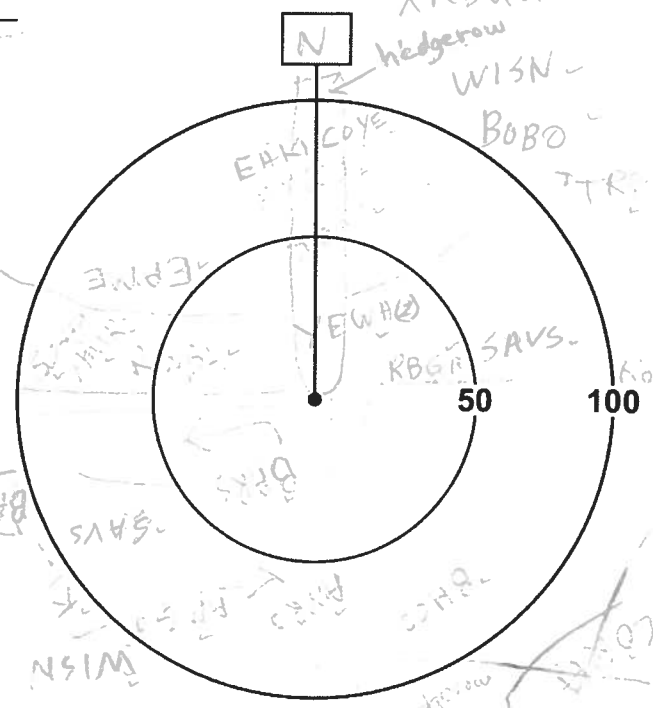
Pg. 8 of 8

Signature: Pete Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin
 (Project Manager)

Station: P10 May 31/2011
 Habitat: Forest Swamp Marsh Hay Pasture Crop
 UTM: 388 50 488 599
 Start Time: 6:57

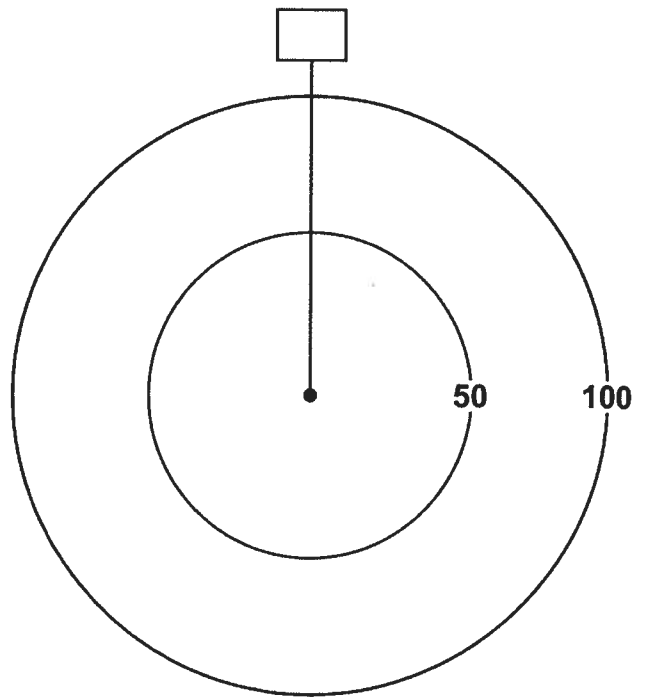
Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RBGU				1	A
WISN			2		A
BOBO			1		A
TRES	1				A
EAKI		1			A
COYE		1			A
AMRD		3			A
SOSP	1	1			A
EAME					A
VEWA	2				A
RBR	1				A
SAVS		2			A/O
RWBL		1			



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P10 continued
 Habitat: Forest Swamp Marsh Hay Pasture Crop
 UTM: _____
 Start Time: _____

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BAR	1				A
KILL			1		A
AMGO		1			A
COLO			1		A
AMCR			1		A
CORA			1		A
EWPE			1		A
BHCO		1			A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()
 Signature: Peter Road
 (Field Personnel)

Signature: Karin S
 (Project Manager)

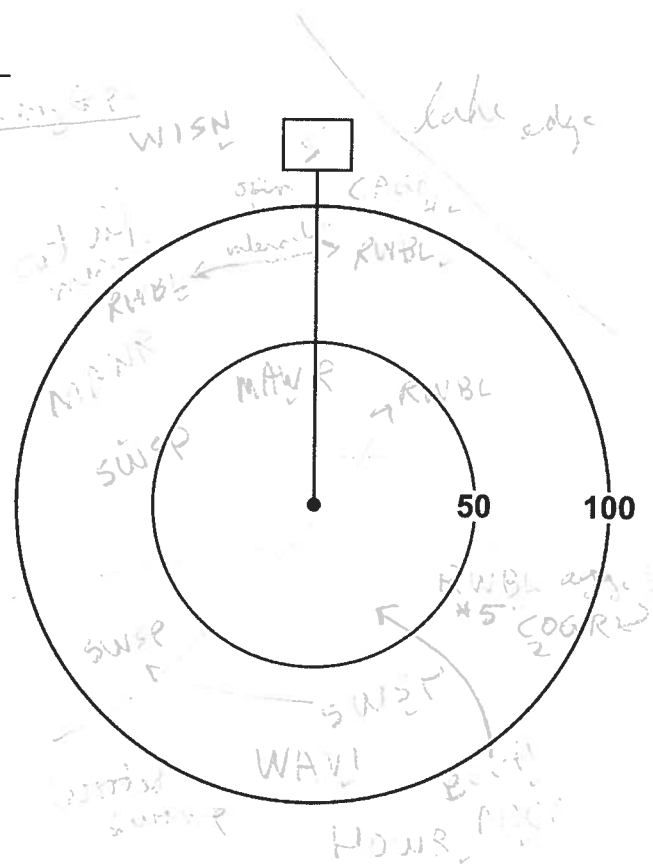
Station: P11* May 31/2011

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: 398503 4885561 VTJ-1158

Start Time: 7:16

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
WISN			1		A
CAGO			4		A
RWBL		7			A
GOCR		2			A
SWSP		2			O
WAVI		1			A
HOWR			1		A
NOCA			1		A
BCCH		1			A
MRWR	1	1			A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

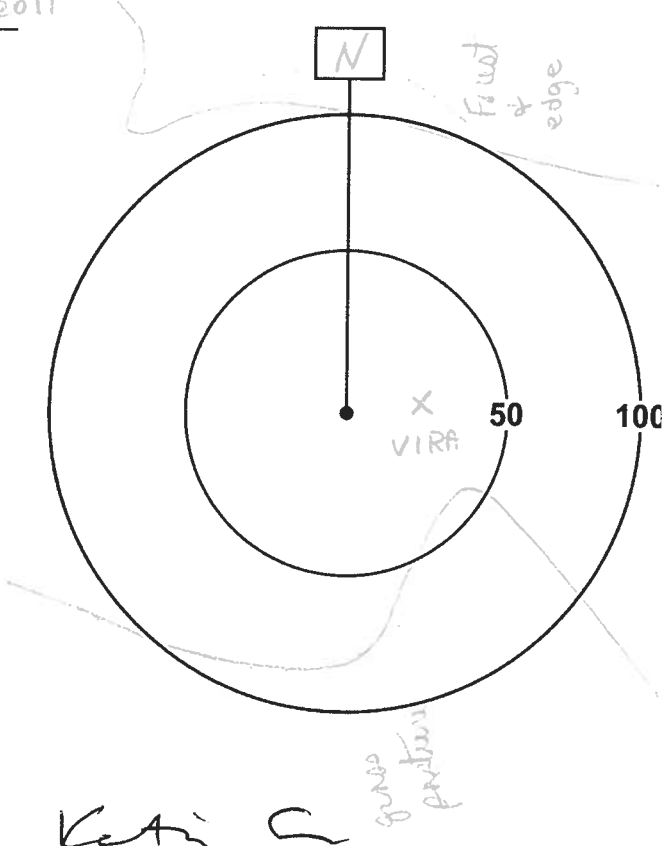
Station: P8* Marsh Bird Playbacks May 31 2011

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: 356134 4887218 T-1 #170

Start Time: 5:30

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
VIRA	1				D



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()
 Signature: Peter Road

Signature: Katie C

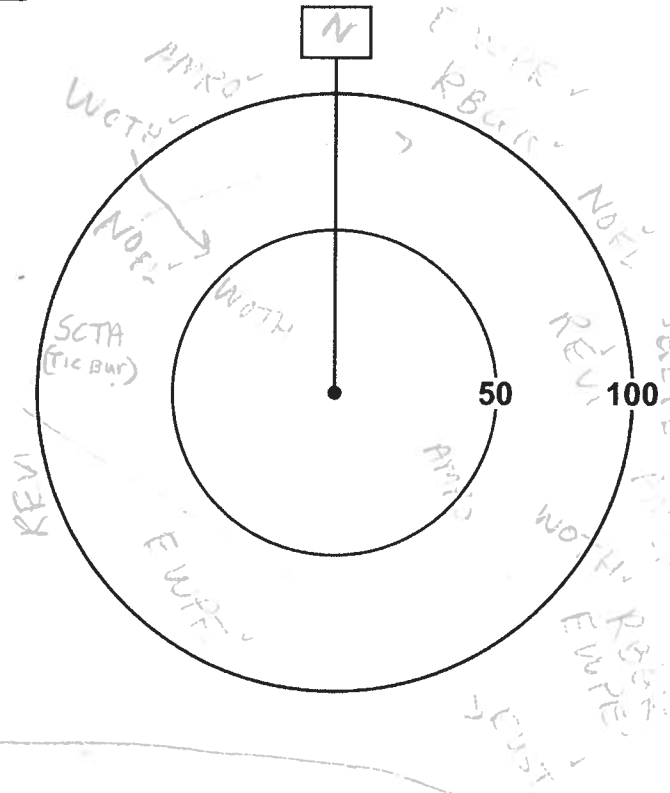
Page 3 of 5 (Field Personnel)

(Project Manager)
 REV: May, 07 Form 020

T W C PPT
20 2 210 0
NB

Station: P12 May 31 2011
 Habitat: Forest Swamp Marsh Hay Pasture Crop
 UTM: 358599 4885899 my GPS
 Start Time: 8-14

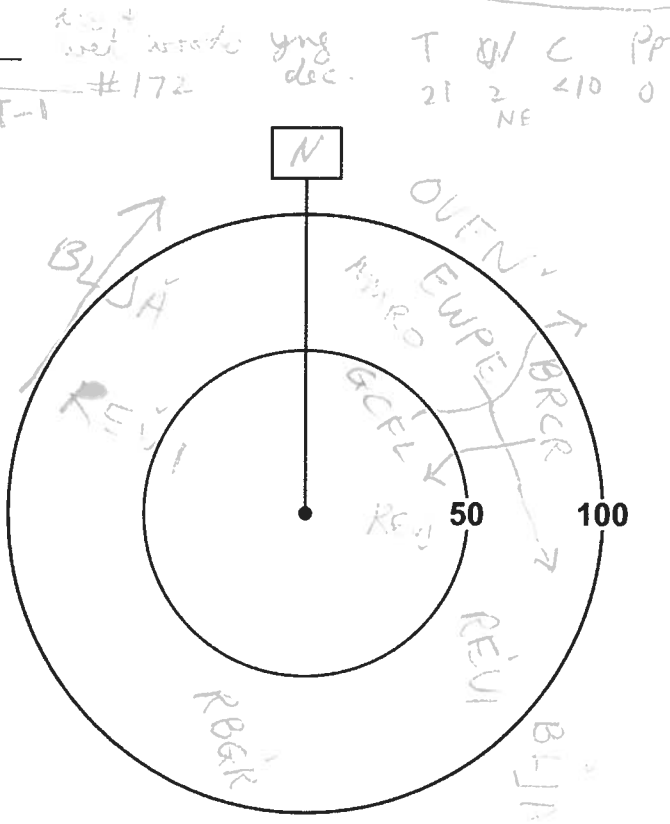
Species	<50 m	50-100 m	> 100m	Flyovers	Height*
AMRO			1		A
WOTH		2			A
NOFL		1	1		A
SCTA		1			A
EWPE		1	1		A
FUST				1	A
RAGR			2		A
BRCK			1		B
GCFE			1		P
REVI		1			A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P14 May 31 2011
 Habitat: Forest Swamp Marsh Hay Pasture Crop
 UTM: 358188 4888222 ← T-1 #172
 Start Time: 9:17

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
REVI	1	2			A
RAGR		1			A
GCFE	1				A
BRCK	1				B
EWPE		1			A
OVEN			1		A/O
BLJA			2		A









*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep.

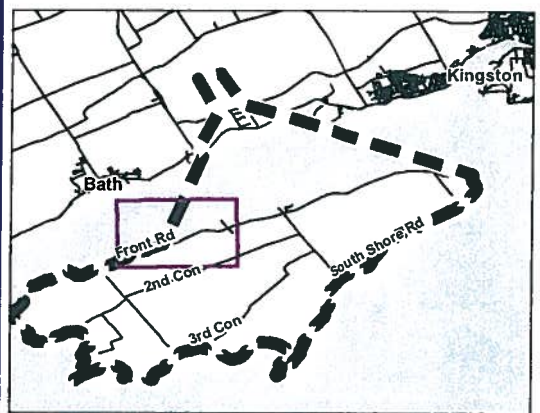
Quality Control: This form is complete () & legible ().
 Signature: _____
 (Field Personnel)

Signature: Kent
 (Project Manager)



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

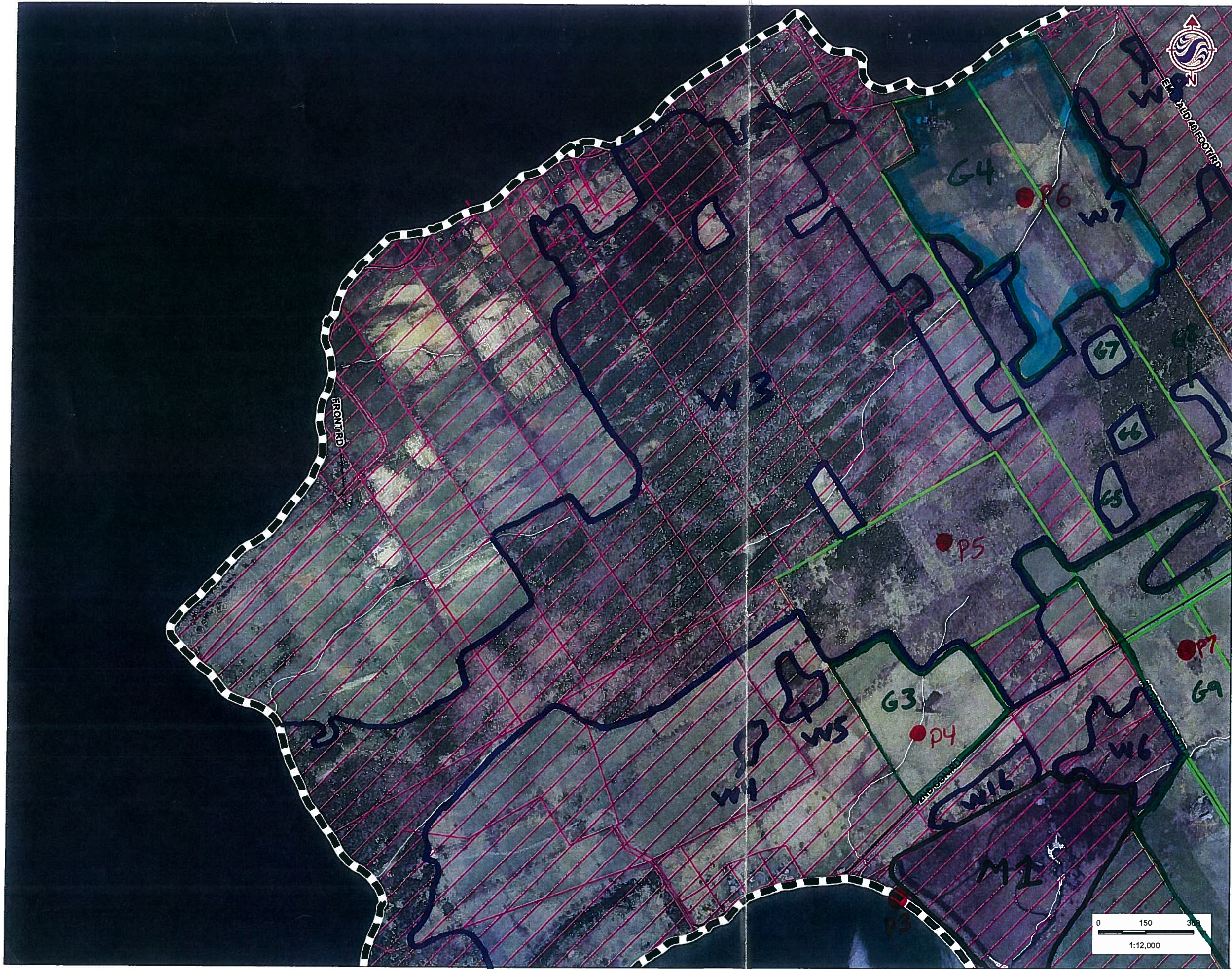
May 2011
160960595

Client/Project







WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 4

Title
FIELD MAPBOOK



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 1

Title

FIELD MAPBOOK

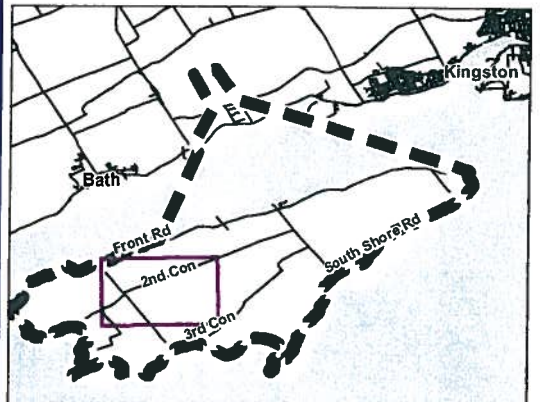


Legend

- Study Area
- Road
- Watercourse
- Amphibian Station

Property Status

- Optioned
- Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 3

Title
FIELD MAPBOOK



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 1 / 2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	19	2	10%	0	0

Feature No.: G42 Habitat Type: grassland. Time Start: 5:00 Time End: 5:40

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose <i>flyover</i>	X	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard ²	P	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher † <i>flyover</i>	X	Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	3 ⁺
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	2 5
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	15 ⁺ P
Virginia Rail		Ea. Phoebe		European Starling ^{5⁺}	H	Red-winged Bl.	5 ⁺ T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	3 ⁺ S
Killdeer ²	P	Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle <i>flyover</i>	X
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow ²	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 11.

Quality Control: This form is complete & legible .

Signature: P. Read
 (Field Personnel)

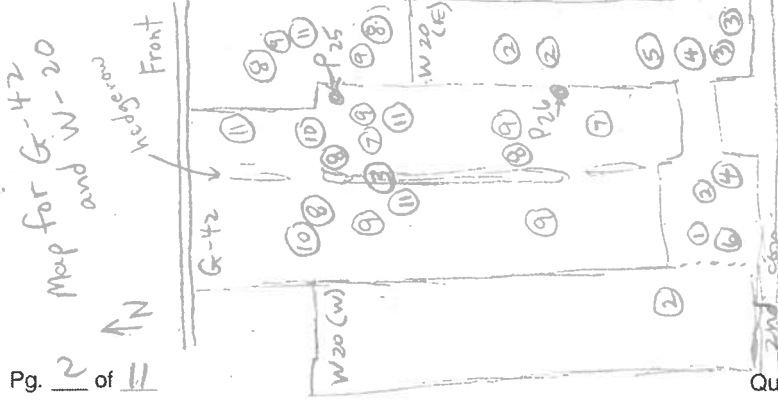
Signature: Kerri
 (Project Manager)

Feature No.: W 20 Habitat Type: brushy woods Time Start: 5:00 Time End: 5:40

Record location of all significant species on site map.
 ** Endangered, Threatened or Special Concern 8:41 - 9:18
 † Partners In Flight
 ‡ Area Sensitive Species
 ① listening and looking while in G42 north
 ② walking to P26

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>east</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡	
Co. Loon ‡ <u>flyover</u>	<u>X</u>	Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡	
Pied-b. Grebe		Whip-poor-will ‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>E+W</u>	<u>S</u>	Eastern Towhee † <u>E</u>	<u>S</u>
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo. <u>W</u>	<u>H</u>	Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>W+E</u>	<u>S</u>
N. Harrier ‡		No. Flicker † <u>W</u>	<u>H</u>	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † <u>W</u>	<u>S</u>	Am. Robin <u>EW</u>	<u>S</u>	No. Cardinal	
Red-shou. Hawk ‡		Alder Fly.		Gray Catbird <u>F</u>	<u>S</u>	Rose-br. Grosbeak † <u>E+W</u>	<u>S</u>
Red-tailed Hawk		Willow Fly. † <u>east, west</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>E+W</u>	<u>H</u>
Sora		Gr. Crested Fly. <u>W</u>	<u>H</u>	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † <u>west</u>	<u>H</u>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. <u>W</u>	<u>H</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>west east 7+</u>	<u>S</u>	Baltimore Oriole † <u>E+W</u>	<u>S</u>
Am. Woodcock		Red-eyed Vireo <u>E+W</u>	<u>S</u>	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.



- ① EWPE
- ② RBGR
- ③ WIFL
- ④ BAOR
- ⑤ EHTD
- ⑥ NDFL
- ⑦ SAVS
- ⑧ EAME
- ⑨ BOBO
- ⑩ GRSP
- ⑪ EAKI

Pg. 2 of 11

Quality Control: This form is complete & legible

Signature: P. Read
(Field Personnel)

Signature: Kate
(Project Manager)

June 1

Feature No.: G 11 Habitat Type: grassland Time Start: 5:49 Time End: 7:15

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners in Flight
- ‡ Area Sensitive Species

② 8:41 - 10:00 while doing P17 and W10 walking to W12, W9, W11.

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	5+ H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat * 1 S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡ ‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. † ‡	
Pied-b. Grebe		Whip-poor-will † ‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp. 2 S	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † 1 S	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † 5+ P	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. † 4+ N	
Osprey		Hairy Wo.		Veery		Song Sp. * 5+ S	
N. Harrier † ‡ 2 P		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin * 10+ CF		No. Cardinal * S	
Red-shou. Hawk † ‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † * 1 S		Bobolink † lots D	
Virginia Rail		Ea. Phoebe		European Starling	lots H	Red-winged Bl. 10+ T	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † 5+ S	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle 5+ H	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. 5+ D	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. 5+ S		Baltimore Oriole † * 1 S	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull fly over x		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** † ‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* includes hedgerows, ditches within G11 but not W9, W10, W12, W11

for map of species locations see page 4

Pg. 3 of 11

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible .
Signature: [Handwritten Signature]
(Project Manager)

Feature No.: W-3 Habitat Type: woods Time Start: ^① 6:15 Time End: 6:20
listened and looked while doing G 11

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

② 8:45-9:33
while checking W9 and G 11 near

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	1 5	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	1 5	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † ③ ② 1 5	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	2 5
N. Harrier †‡		No. Flicker †	1 5	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † ③	1 5	Am. Robin	1 5	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly. ③	1 5	Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	1 5
Am. Kestrel †		Least Fly.		Br. Thrasher †	1 5	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly. ③ ② 5		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo ③	1 5	Yellow Wa.	2 5	Baltimore Oriole †	1 5
Am. Woodcock		Red-eyed Vireo	1 5	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

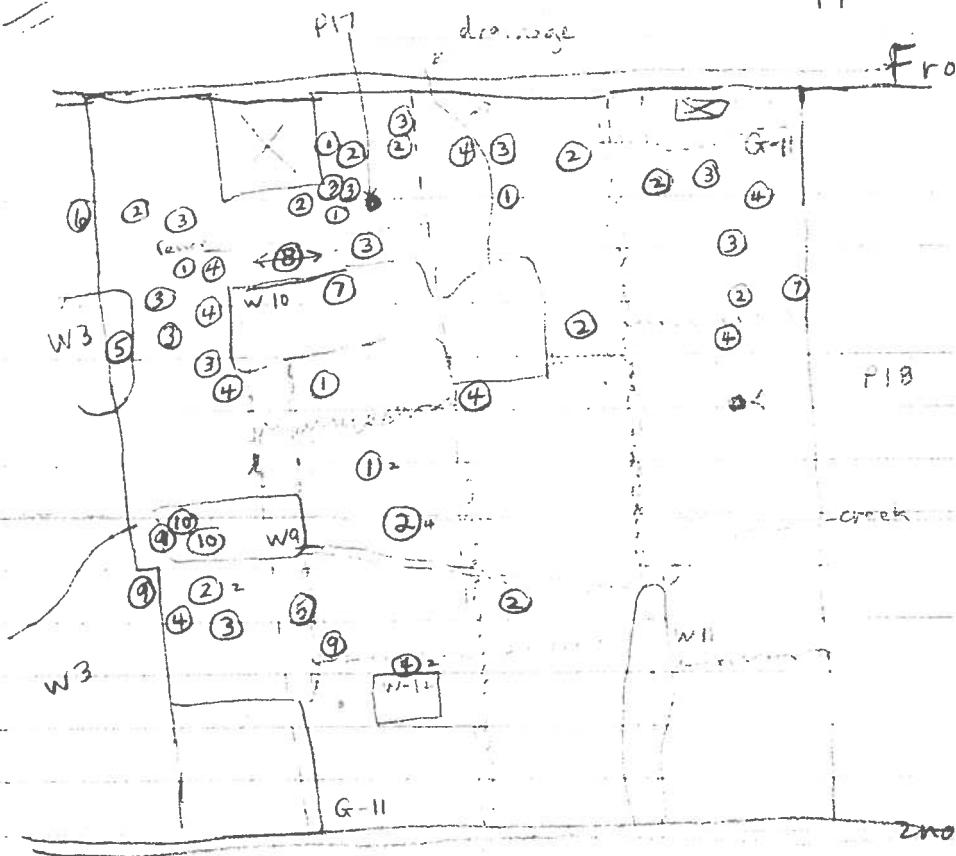
Also added to this sheet data from south part of G4 where meets W-3 so ③ 8:00 - 8:05 (map of ③ FISP on page 10) ② FISP and other ② sign-species on map on page 4)

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Katrina Sun
 (Project Manager)

P-4

↑ N



... locations ...

Jul/201
area with va
BBS plots

- ① EAME
- ② BOBO
- ③ SPVS
- ④ GRSP
- ⑤ BAOR
- ⑥ BRTH
- ⑦ EAKI
- ⑧ NOHA
- ⑨ FISP
- ⑩ WIFE

June!

Feature No.: W10 Habitat Type: woods Time Start: 6:30 Time End: 6:45

Record location of all significant species on site map. - red cedar "woods" - open canopy

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	1 5	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	3 5
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	3 N	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	5 H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing	2 H	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	1 H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	3 5	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

for map see page 4.

Pg. 6 of 11

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible

Signature: Kati
(Project Manager)

Feature No.:

W9

Habitat Type:

woods

Time Start:

9:44

Time End:

10:05

Record location of all significant species on site map.

- wet brushy west end
- older trees wet east end

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	1 5
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	3 5
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	2 5	No. Cardinal	1 5
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	3 5	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	2 5	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow <i>flyover</i>	X	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

see map page 4.

Pg. 7 of 11

Signature:

P. Read

(Field Personnel)

Quality Control: This form is complete & legible

Signature:

Kevin S

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W-12 Habitat Type: Woods Time Start: 9:31 Time End: 9:36

Record location of all significant species on site map. *- very small # of trees*
 ** Endangered, Threatened or Special Concern *- dry*
 † Partners In Flight *- brushy at edge*
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	2 5
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark ‡	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	3 ▷
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	1 5	Baltimore Oriole †	
* Am. Woodcock flushed H		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* AMWO flushed from bushes at south end of W-12
 - no nest found.

Pg. 8 of 11

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Katei Su
 (Project Manager)

T W C PPT
21 2 sw <5% 0

June 1

Feature No.: W11 Habitat Type: Woods Time Start: 10=10 Time End: 10=24

Record location of all significant species on site map. - north end along water way + brushy + wet
 ** Endangered, Threatened or Special Concern - drier as head south
 † Partners In Flight - larger trees at N end
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	1 S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	2 S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	5+ S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	5+ CF	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	1 S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	4+ H
Sora		Gr. Crested Fly.		Cedar Waxwing	4 H	Ea. Meadowlark ‡	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	1 H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	2+ S	Yellow Wa.	2+ S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

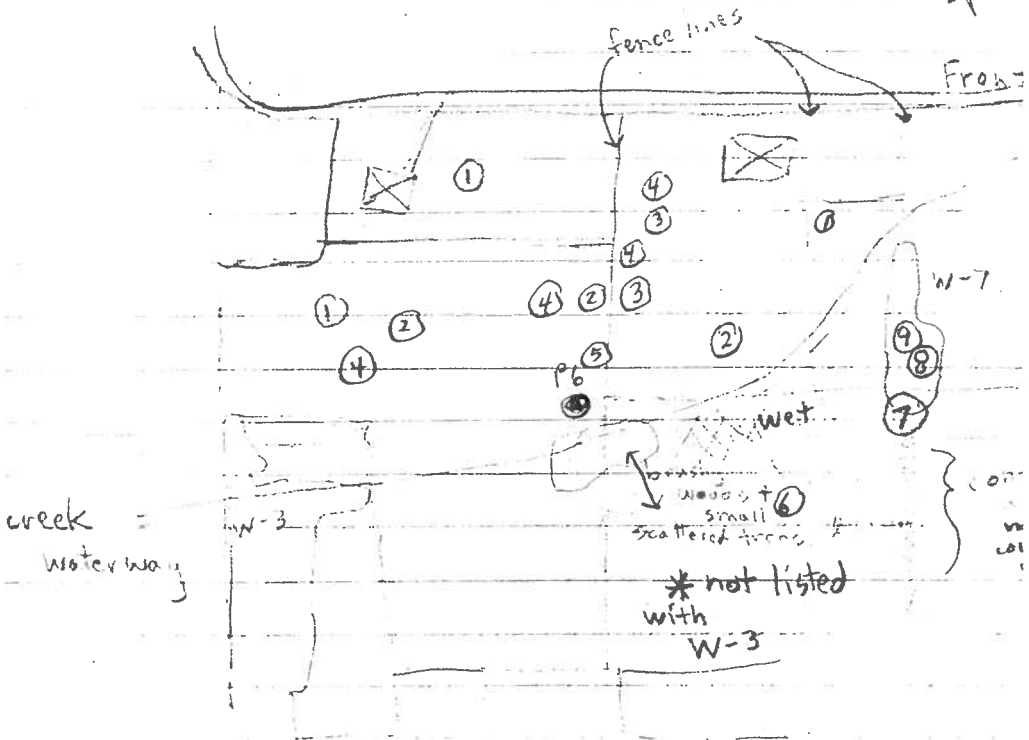
Pg. 9 of 11

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible

Signature: Koa S
(Project Manager)

Map for G4 and W7 significant spec



W-3

* data added to W-3 June 1 with this bat

- ① EAME
- ② BOBO
- ③ UPSA
- ④ SAVS
- ⑤ EAKI
- ⑥ FISP
- ⑦ Brown Thrasher
- ⑧ RBGR
- ⑨ EWPE

* note W-8 on another day. June 3

P. Read.

June 1

Feature No.: G4 Habitat Type: Grassland Time Start: 7=30 Time End: 8=24

Record location of all significant species on site map. - hay, pasture, - hedgerows
 ** Endangered, Threatened or Special Concern - wet areas, dry areas
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	5+ H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	2 S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	1 S
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	5+ S
T. Vulture <i>flyover</i>	X	Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	5+ S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	10+ CF	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	5+ S
Virginia Rail		Ea. Phoebe		European Starling	5+ H	Red-winged Bl.	10+ T
Sora		Gr. Crested Fly.		Cedar Waxwing	2 P	Ea. Meadowlark †	2+ S
Killdeer	4 A	Ea. Kingbird †	2+ S	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	2+ H
Upla. Sandpiper ‡	2 A	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	3 P	Warbling Vireo		Yellow Wa.	5+ S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	2 P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	5+ H
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

see map page 10

Pg. 9 of 11

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Kurtis
 (Project Manager)

Feature No.:

W7

Habitat Type:

Woods

Time Start:

8:04

Time End:

8:15

Record location of all significant species on site map.

- wet, edges brushy.
some young trees

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	3+ S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	3+	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	1 S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	S
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	flyover X	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

see map page 10 for locations of noted species.

Pg. 11 of 11

Signature:

P. Reed

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Kath S

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595 Project Name: Amnicor
Date June 2007 Field Personnel: Pet. Reed

Weather Conditions:	Temp: <u>19</u>	Wind: <u>2</u>	Cloud: <u>10</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
---------------------	-----------------	----------------	------------------	---------------	------------------------------

GPS #: T

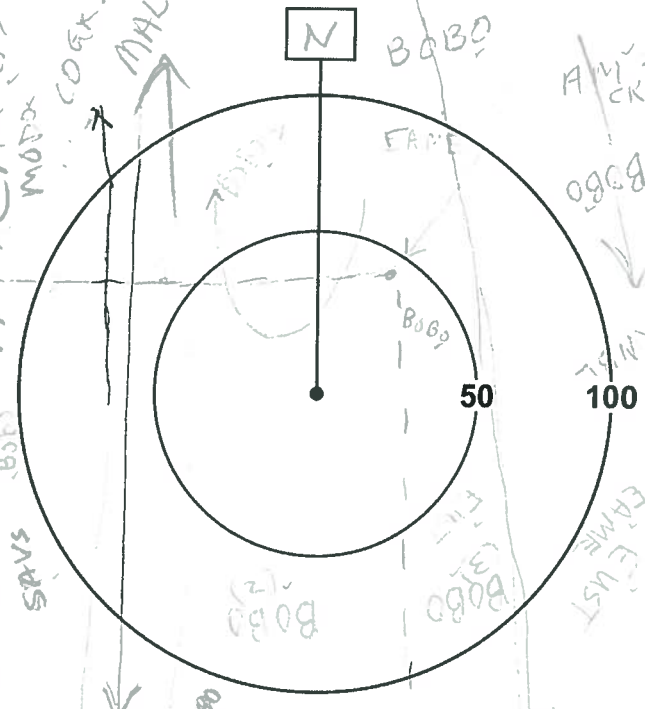
Station: P25

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 36Q337 4395432 T-19

Start Time: 5:20

Species	<50 m	50-100 m	>100m	Flyovers	Height*
BEKI				1	A
MALL				1	A
COGR				1	A
BOBO	1	7	4		A
SAYS			1		A
EUST		1	1		A
EAMF			1		A
RWBL			1		A
AMCR			2		A
CAGO				6	A
MODD				1	A
GRSP			1		O
WIFL			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓).

Signature: P. Reed
(Field Personnel)

Signature: [Signature]
(Project Manager)

T-20
W-2 (SW)
C-

Station: P17

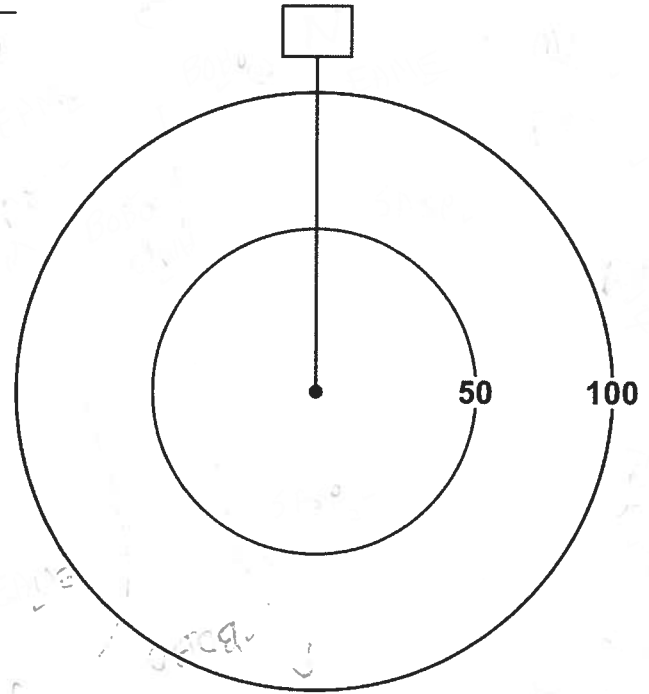
Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: 359124 4339352

Start Time: 600

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EAME			4		A
BOBO		2	4		A
MALL				1	A
AMRO				1	A
BARS				1	A
SASP	2	1			A/O
NOHA				1	A
CAGO				2	A
RWBL			1		A
SOSP			1		A
EAKI			1		A
HOWR			1		A

*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep



Station: _____

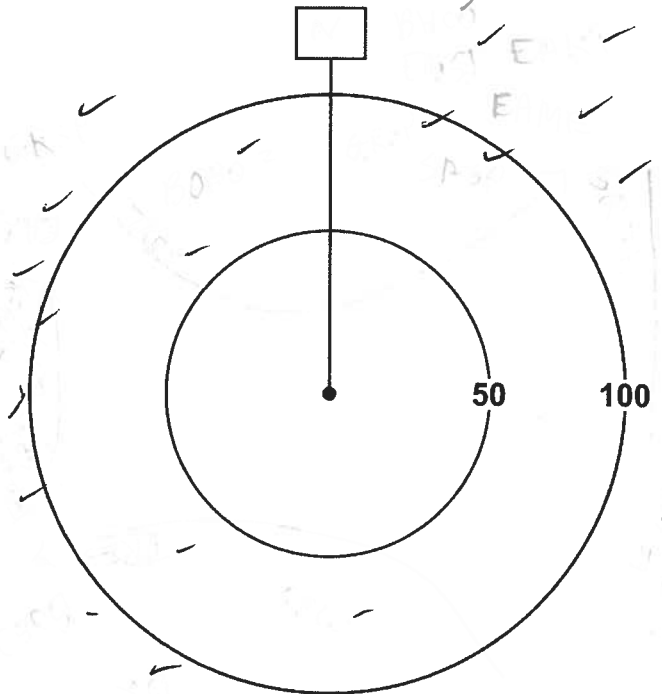
Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: 3710 380033 #19

Start Time: _____

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BOBO		3	1		
TRES				2	
EAKI			2		
EUST		1	1	1	1
YEWA			1	1	
EAME			2	1	
BHCC			1	1	
GRSP		1	1	1	
SASP		1	1	1	
BRTH			2	1	
RWBL			1	1	
NOHA				2	1

*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep



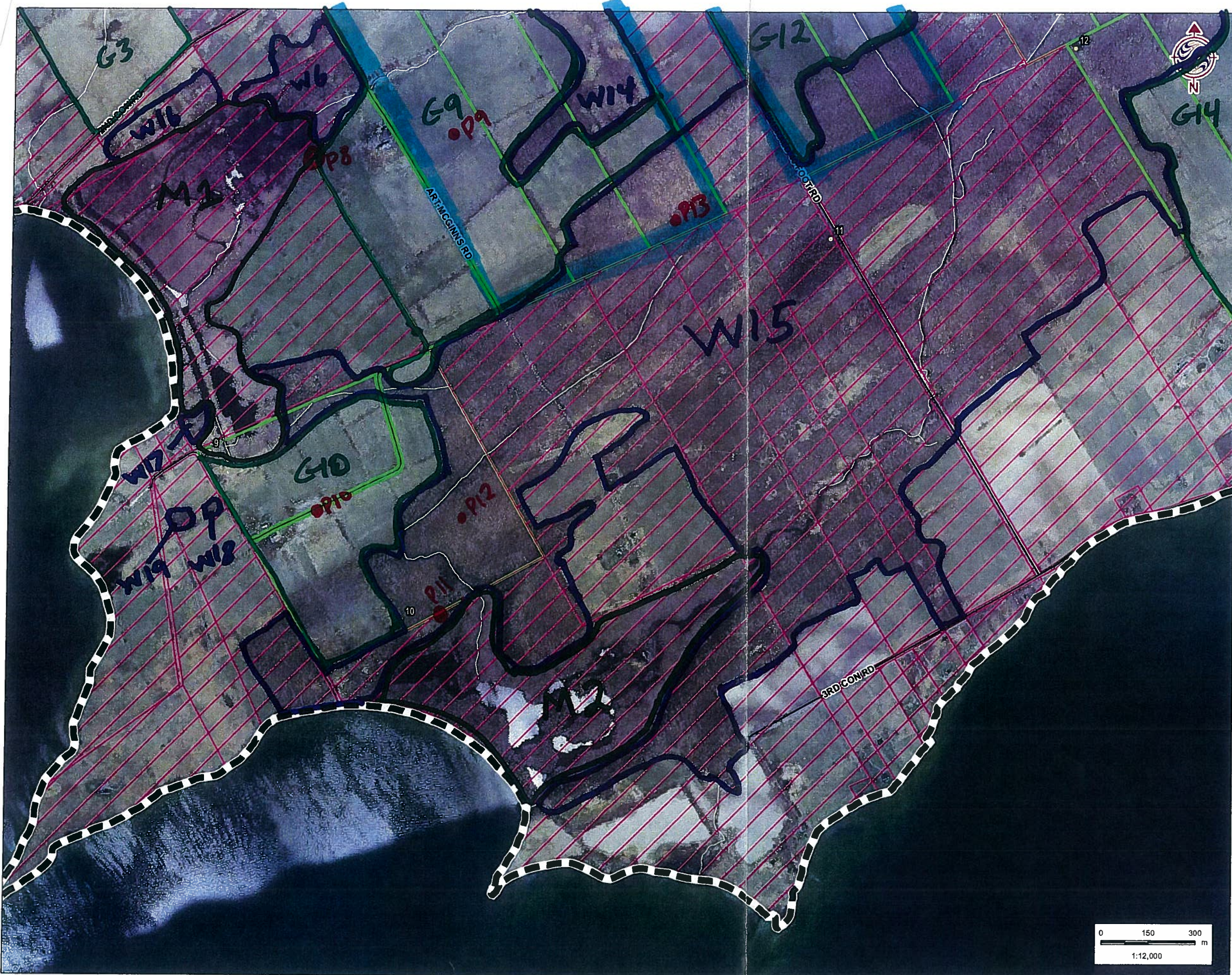
Quality Control: This form is complete (✓) & legible (✓)

Signature: P. Read
(Field Personnel)

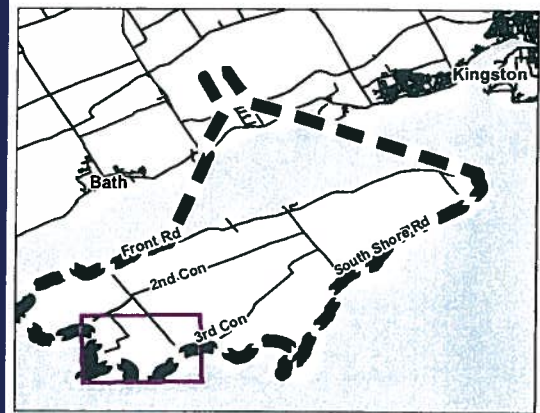
Signature: Kari S.
(Project Manager)

Page 2 of 3

REV: May, 07 Form 020



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
 - Property Status**
 - Optional
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project
**WINDLECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT**

Figure No.
Tile 2

Title
FIELD MAPBOOK



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595

Project Name: Amherst

Date June 2/2011

Field Personnel: Pete Read

Weather Conditions:

Temp:

12

Wind:

3

Cloud:

40%

PPT:

0

PPT in last 24 hrs:

0

GPS #: T_1

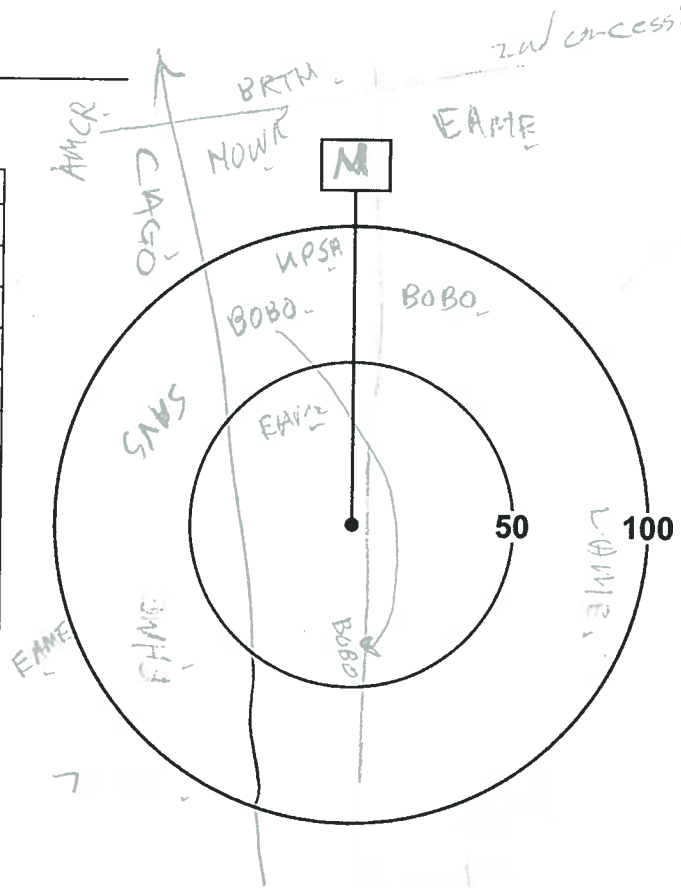
Station: P15

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 358784 4887956 #216

Start Time: 5:15

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EAME	1	2	2		A/O
BOBO	1	1			A
SAVS		1			A
UPSA		1			A
RWBL			2		A
HOWR			1		A
BRTM			1		A
CAGO				2	A
AMCR			2		A
YEWA			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)

Signature: Pete Read
(Field Personnel)

Signature: Karin
(Project Manager)

Station: P7

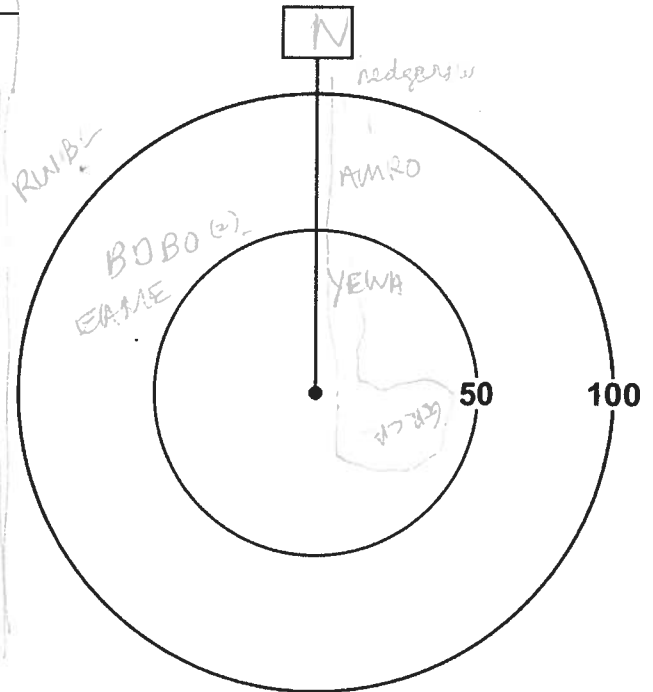
T-12 C 20% W-3/4

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 358242 4887613 #216

Start Time: 6:05

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RWBL			1		A
BOBO		2	1		A
EAME		1	1		A
AMRO		1			A
YEWA	1				A
GRCA	1				A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P9

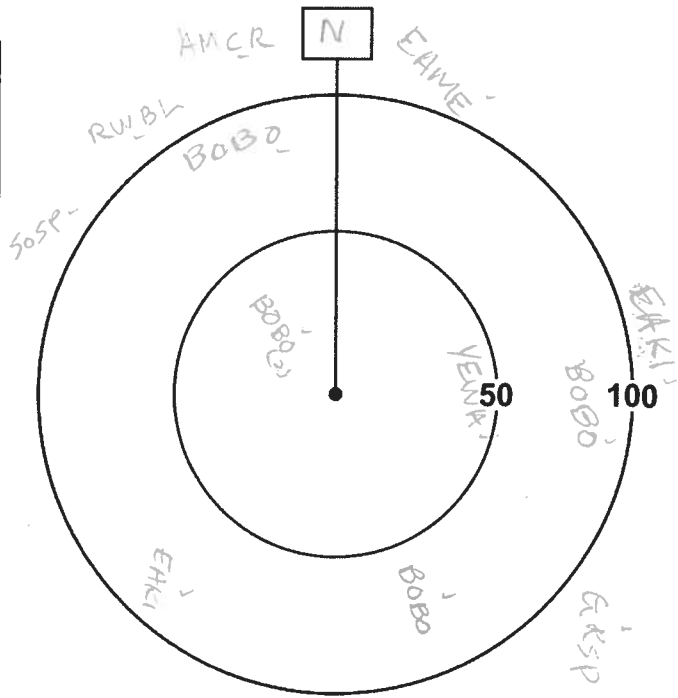
T-12 C 20% W-3/4

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 358487 4887133 #217

Start Time: 6:35

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
AMCR			1		A
EAME			1		A
RWBL			1		A
SOSP			1		A
GRSP			1		A/O
BOBO	2	2			A
EAKI		1	1		A
YEWA	1				A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓).
 Signature: P. Road
 (Field Personnel)

Signature: Katri
 (Project Manager)

June 2

Station: P13

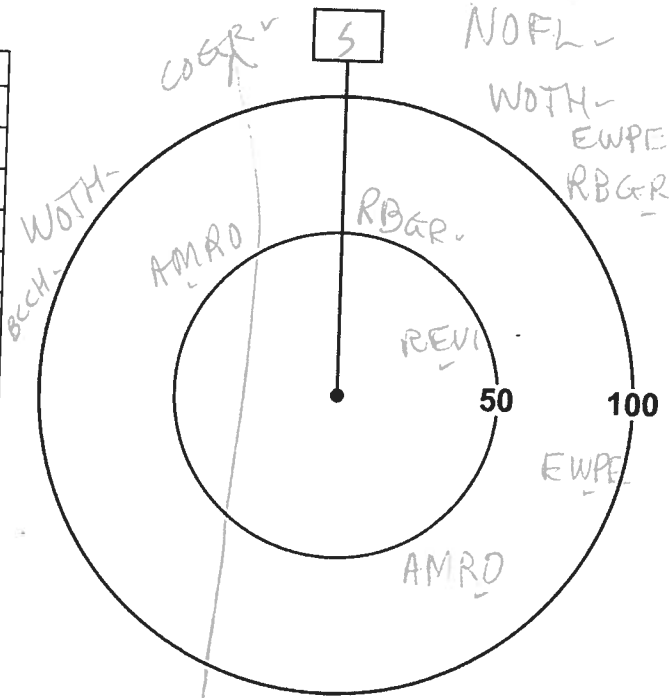
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 359059 4886901 #218

Start Time: 7:17

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
WOTH			2		A
EWPE		1	1		A
RBGR		1	1		A
NOFL			1		A
AMRO		2			A
REVI	1				A
BCCH			1		A
COGR				1	A

*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep



T-12 C 80° clouds W-3NW

Station: P16

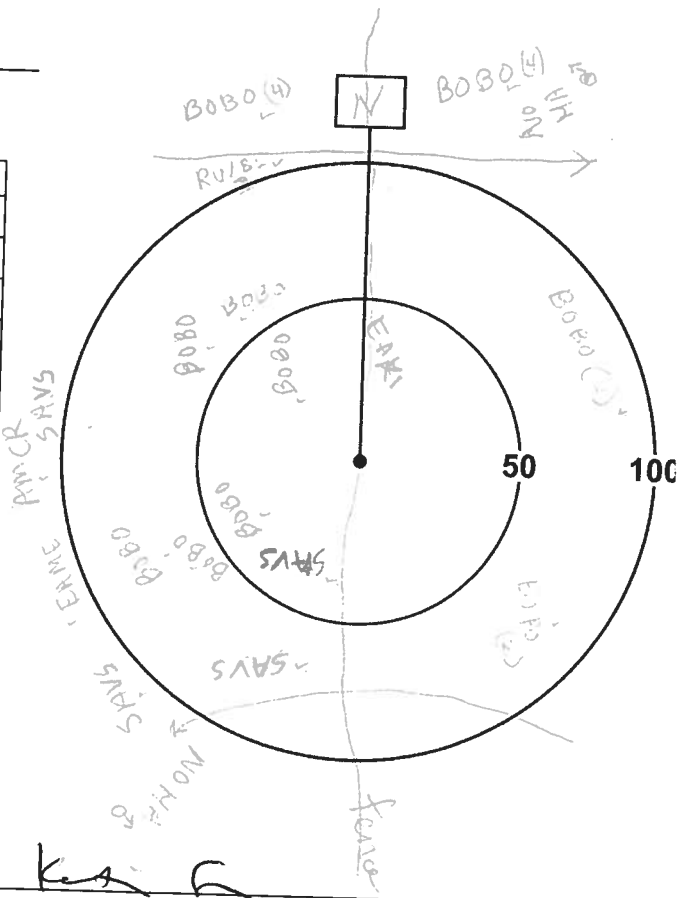
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 359430 4887940 #219

Start Time: 8:22

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BOBO	2	10	8		A
RWBL			2		A
SAVS	1	1	2		A/O
EAME			1		A
AMCR			1		A
NOHA		1	1		A

*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep



T-12 C-90 W-3 PPT-0

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 2/2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C): <u>11</u>	WIND: <u>3 NW</u>	CLOUD: <u>40-100%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	----------------------	--------------------------	------------------	-----------------------------------

Feature No.: G 9 Habitat Type: Grassland. Time Start: 5:00 Time End: 6:56

Record location of all significant species on site map. *map of significant species on page 2*

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

** hedgerows in grassland species and along ditches*

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose <i>flyover 40</i>	X H	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren *	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	1 S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	2† S
Osprey		Hairy Wo.		Veery		Song Sp. *	3† S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. *	1 S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin *	4† H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird *	2 S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	3† S
Virginia Rail		Ea. Phoebe		European Starling	5† FY	Red-winged Bl.	5† T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	3 S
Killdeer		Ea. Kingbird † *	3† H	Blue-wing. Wa. †		Co. Grackle	2 H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	3 H
Upla. Sandpiper ‡	2 P	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	2 P	Warbling Vireo		Yellow Wa. *	2 S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <i>flyover 2</i>	X H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 8

Quality Control: This form is complete & legible .

Signature: Pete Read
(Field Personnel)

Signature: Kerri R
(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

W-14

Habitat Type:

Woods

Time Start:

6:56

Time End:

7:10

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

- closed to partly open
 - wet in spots
 - some larger trees - shrubbier at ends
 - significant species on page 2

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch	H	Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture <i>flyover</i>	x H	Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	H
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven <i>flyover</i> ²	x H	Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 8

Signature:

P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

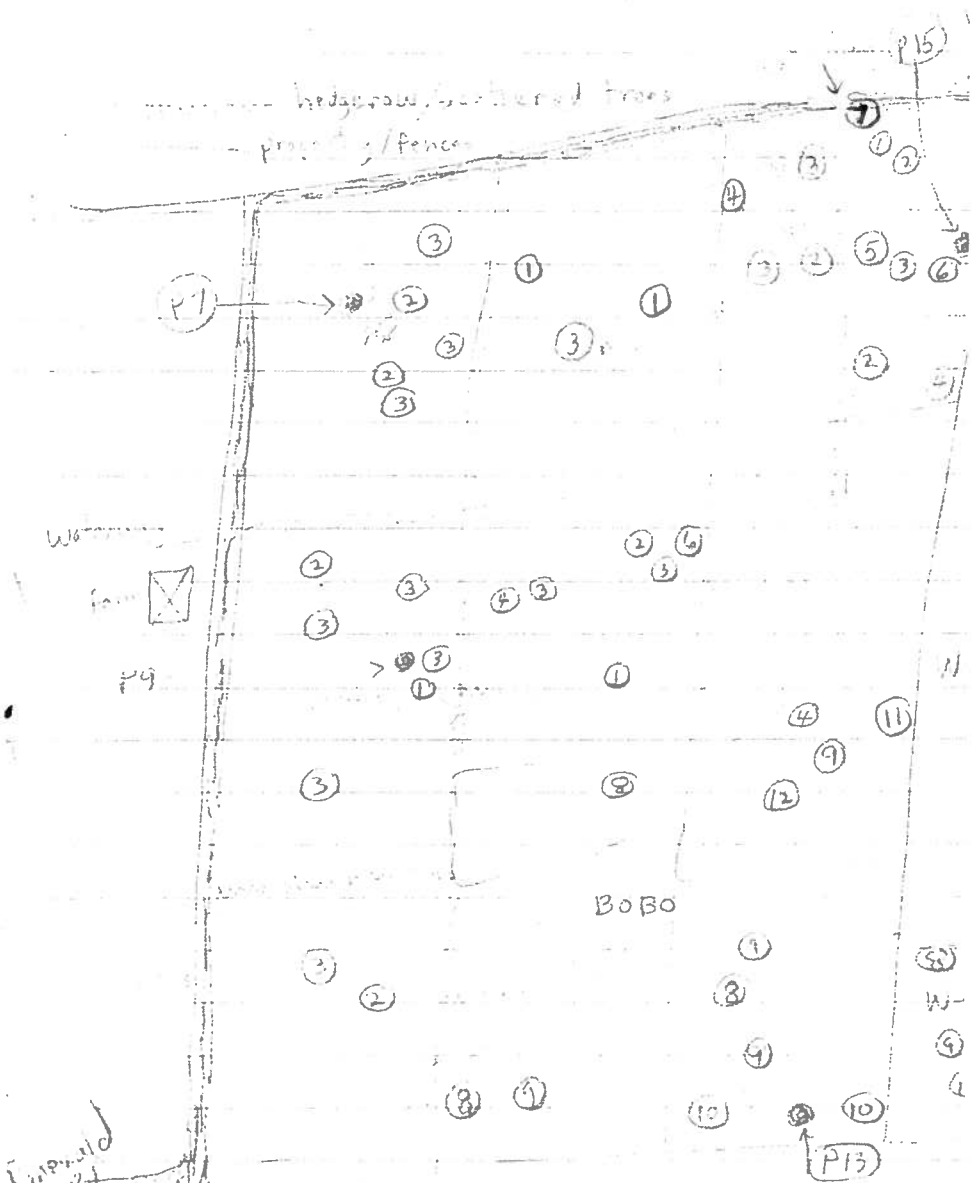
Signature:

Katrin

(Project Manager)

REV: 2011-05-27 / FORM 031

for GY, VV14, G12 part of
 for Jured Day 4.



- ① GRSP ④ FAKI ⑦ BATH ⑪ EATO
- ② EAME ⑤ UPSA ⑧ EWPE ⑫ BARK
- ③ BOBO ⑥ SHVS ⑨ RBCK
- ⑩ WOTH

in part - south end of G9

June 2

Feature No.: W-15 Habitat Type: Woods Time Start: 7:12 Time End: 7:47

Record location of all significant species on site map. - closed to partly open canopy.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

- wet in spots
- some larger trees
- significant species on Map page 2

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	4+ S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	4+ S	Am. Robin	4+ S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	4+ S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark ‡	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 8

Signature: _____

Peter Read
(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

Kate
(Project Manager)

Feature No.: G 12 Habitat Type: Grassland Time Start: 8:15 Time End: 9:15

Record location of all significant species on site map. - dugout D
 ** Endangered, Threatened or Special Concern - map of sign. sp - page 6
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow 5+	H	Ovenbird ‡	
Mallard <u>Dugout</u>	P	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡ <u>flyover</u>	X H	Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † 4+	S
T. Vulture <u>flyover</u>	X H	Downy Wo.		Ea. Bluebird		Grasshopper Sp. † 1	S
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡ 2	P	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † 20+	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl. 5+	H
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † 3+	S
Killdeer		Ea. Kingbird † 3+	P	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow <u>flub</u>	2 H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Kurtin S.
 (Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Stantec

Project Number: 160960 595

Project Name: Amherst

Date: June 2 / 2011

Field Personnel: Pete Read.

Weather Conditions:	TEMP (°C): <u>71</u>	WIND: <u>2 NW</u>	CLOUD: <u>60%+</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	----------------------	-----------------------	------------------	-----------------------------------

Feature No.: W13 Habitat Type: woods Time Start: 8:40 Time End: 8:45

Record location of all significant species on site map. map page 6.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

listened at edge

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	5
N. Harrier ‡‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	5	No. Cardinal	
Red-shou. Hawk ‡‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	5
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	5	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	5	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 8

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W15 Habitat Type: Wet woods Time Start: 9:15 Time End: 10:40

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

- map of signif sp - page 6.

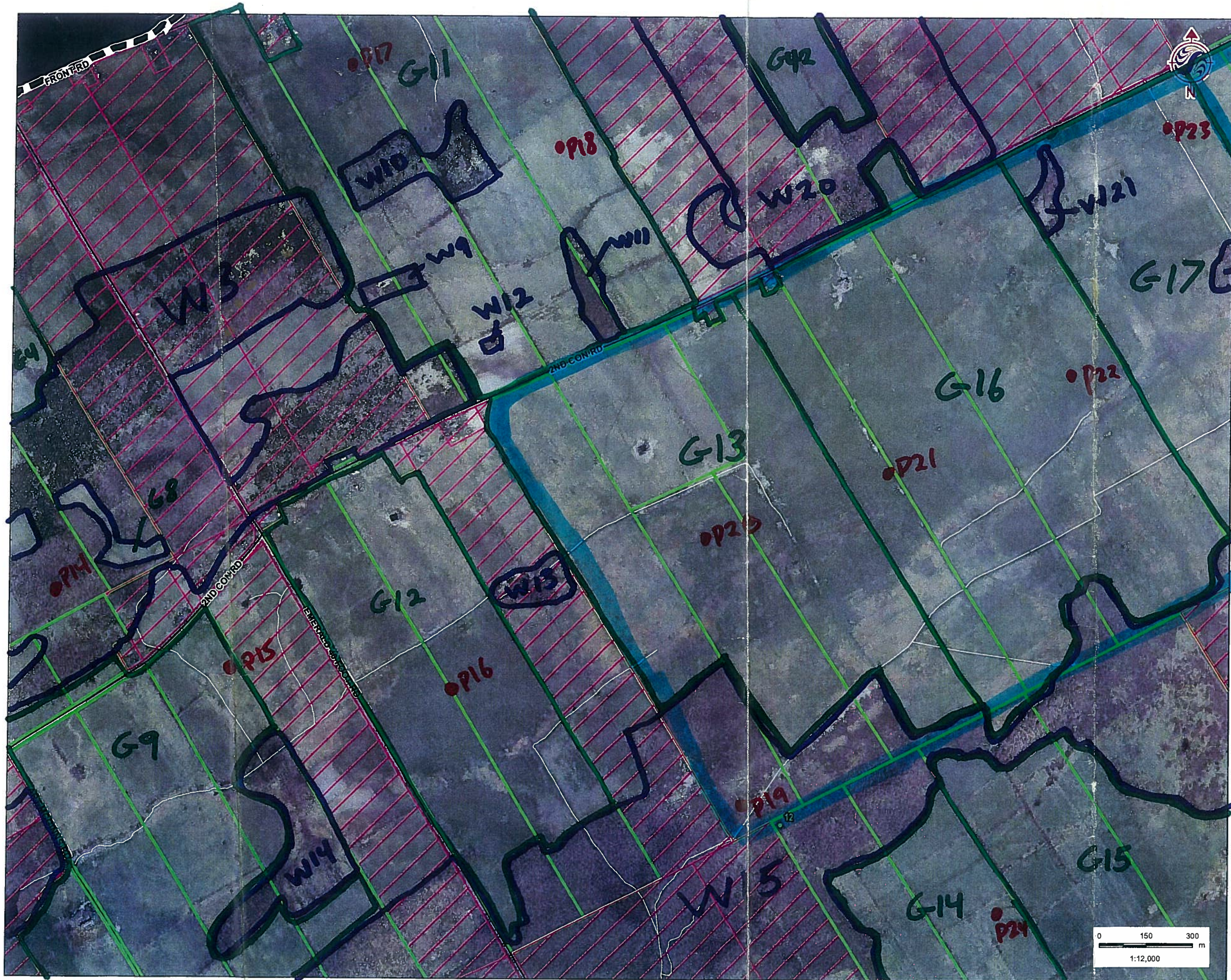
Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.	P	Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	S
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch	H	Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡	3 S	Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.	H	Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	4+ S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	3+ S	Am. Robin	5+ S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	S H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	H
Am. Woodcock		Red-eyed Vireo	3+ S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Signature: _____
 (Field Personnel)

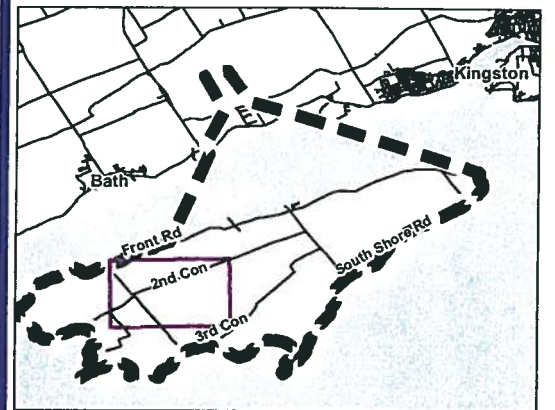
Quality Control: This form is complete & legible .

Signature: [Handwritten Signature]
 (Project Manager)



Legend

- Study Area
- Road
- Watercourse
- Amphibian Station
- Property Status**
- Optioned
- Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



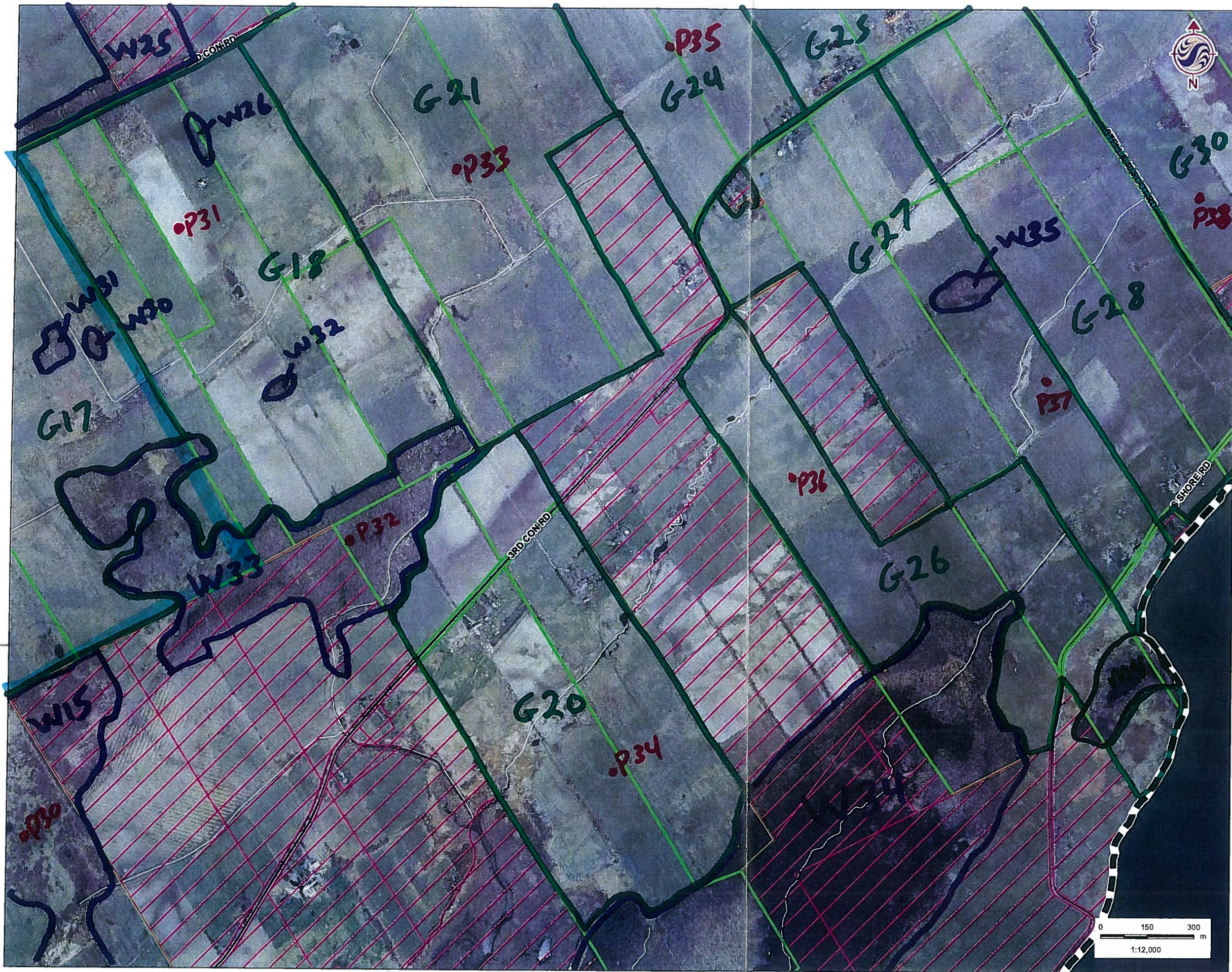
Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 3

Title
FIELD MAPBOOK



Legend

- Study Area
- Road
- Watercourse
- Amphibian Station
- Property Status**
- Optioned
- Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 6

Title

FIELD MAPBOOK



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595
Date June 3 / 2011

Project Name: Amherst
Field Personnel: Pete Read

Weather Conditions:	Temp: <u>13</u>	Wind: <u>1</u>	Cloud: <u>0</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
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GPS #: T 1

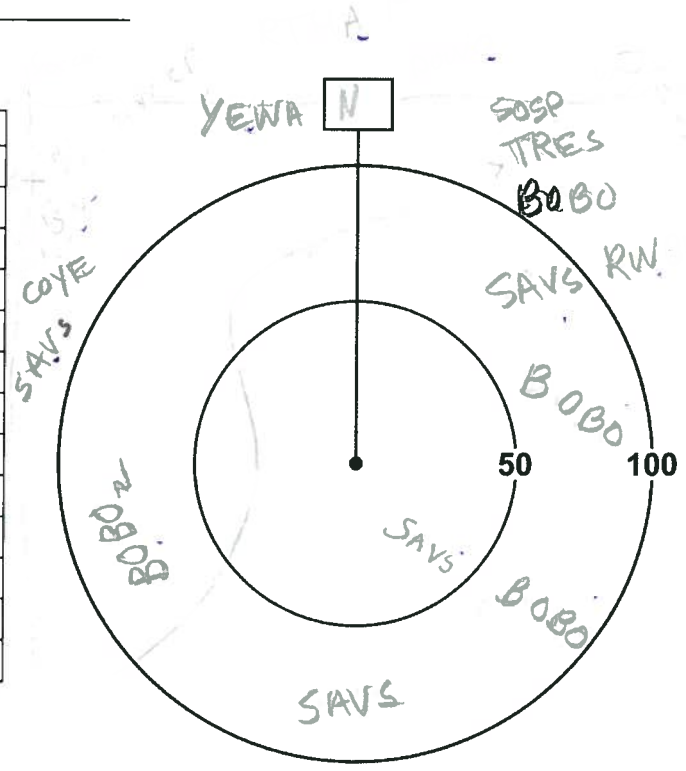
Station: P20

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: 205210 500000 2-1

Start Time: 6:05

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RTHA				2	B
DOWO			1		A
YEWA			1		A
AMCR			1		A
WISN			1		A
SWSP			1		A
COYE			1		A
SAVS	1	2	1		A/O
BOBO		4	1		A
RWBL			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()

Signature: P. Read
(Field Personnel)

Signature: Katrina
(Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 100960 595

Project Name: _____

Date: June 3/2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	9	2	0	0	0

Feature No.: G 13 Habitat Type: Grassland Time Start: ① 5:25 Time End: 6:25

Record location of all significant species on site map. - some fencing
 ** Endangered, Threatened or Special Concern ② 7:20 - 7:37
 † Partners In Flight - 4 bushes & trees
 ‡ Area Sensitive Species along then ③ 8:37 - 9:10

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	P	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard	NE	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	5+ S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡	flyover X H	Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron	flyover X H	Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	10+ D
T. Vulture		Downy Wo.	H	Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery	S	Song Sp.	10+ S
N. Harrier †‡	P	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	5+ S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	P	Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	25+ D
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	10+ T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡	DD	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo	S	Yellow Wa.	5+ S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	4+ H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡		Say's Phoebe	H
Mourn. Dove	flyover 2 X H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of

Quality Control: This form is complete & legible

Signature: P Read
(Field Personnel)

Signature: Kerrin E
(Project Manager)

Feature No.: W-15 Habitat Type: Woodlands Time Start: 6:25 Time End: 7:20

Record location of all significant species on site map. *- part scrubby open canopy*
- part bigger trees closed canopy
- also small piece south part of G16 ② 7:45 - 7:50

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.	P	Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	5+ S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.	H	Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery	S	Song Sp.	10+ P
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.	S	Gray Catbird	5+ S	Rose-br. Grosbeak †	S
Red-tailed Hawk	H	Willow Fly. †	5+ S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	H
Sora		Gr. Crested Fly.	S	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	10+ S	Baltimore Oriole †	S
Am. Woodcock	H	Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	P	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 12

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Keri S
 (Project Manager)

in part (see also June 2)

June 3

Feature No.: W-13 Habitat Type: Woods Time Start: 5:47 Time End: 5:52

Record location of all significant species on site map. - grassy grazed smaller trees

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged BI.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 12

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: [Handwritten Signature]
 (Project Manager)

Feature No.: G 16 Habitat Type: Grassland Time Start: 7:37 Time End: 7:

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	15 ⁺ P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	1 S
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡	P	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †	H	Least Fly.		Br. Thrasher †		Bobolink †	25 ⁺ D
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven <i>Fly over</i> * H		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 12

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: Kearns

(Project Manager)

REV: 2011-05-27 / FORM 031

Record location of all significant species on site map.
****** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

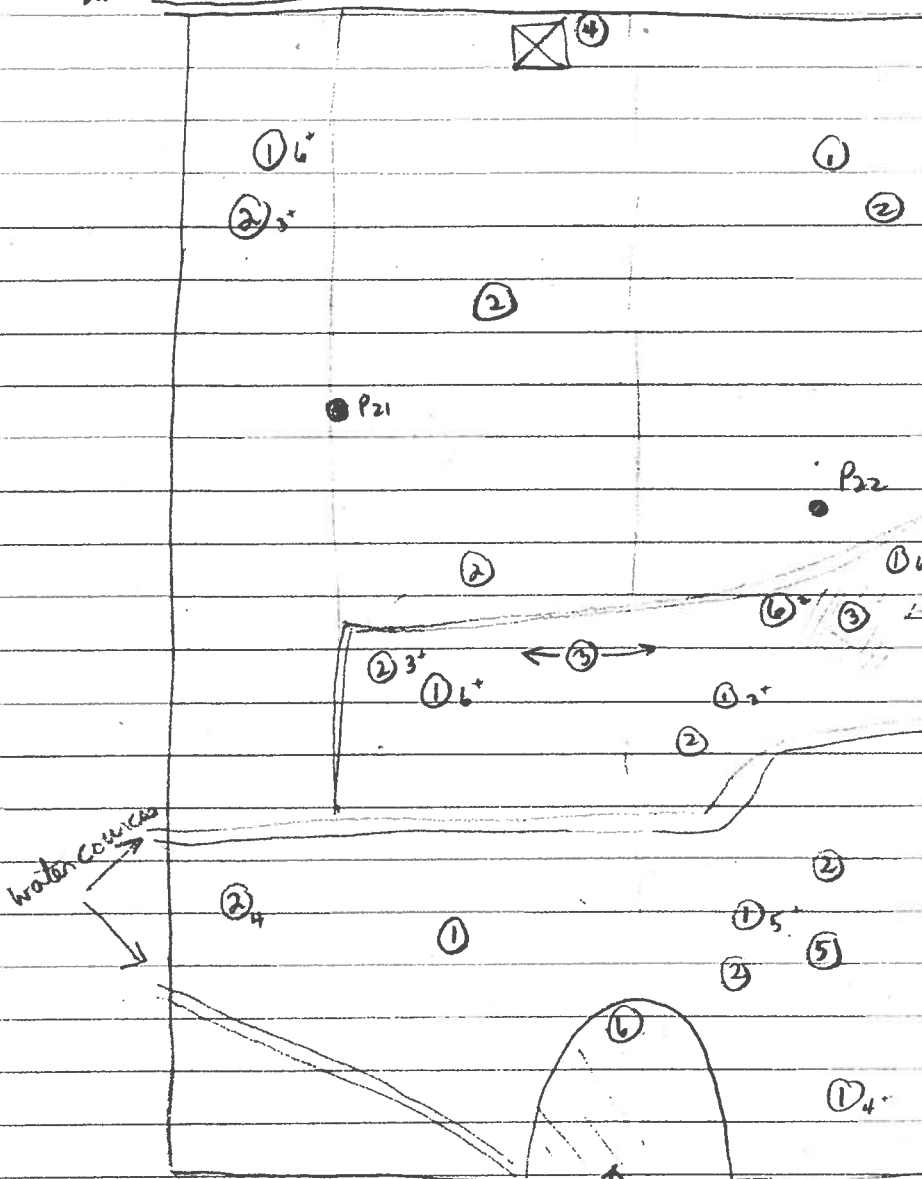
Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	15 ⁺ P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	1 S
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡	P	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †	H	Least Fly.		Br. Thrasher †		Bobolink †	25 ⁺ D
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven <i>fly over</i> * H		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

June 3/2011 in

page 6 of 12

2nd conc.



- ① BOBO
- ② SAVS
- ③ NOHA
- ④ AMKE W-15
- ⑤ GRSP
- ⑥ EAKI

June 3

Feature No.: G 17 Habitat Type: Grassland Time Start: 9:15 Time End: 10:00

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

while checking woods
 ② 10:20 to 10:35
 ③ 10:45 to 10:48
 ④ 10:48 to 11:00

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	S
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	16† S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡	P	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.	S	Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	H	Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	20† D
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡	H	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 12

Signature: P. Rend

(Field Personnel)

Quality Control: This form is complete & legible

Signature: Ketin

(Project Manager)

Feature No.: W-21 Habitat Type: Woods Time Start: 9:35 Time End: 9:40

Record location of all significant species on site map.

- grassy under - grazed
- some larger trees

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	P
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

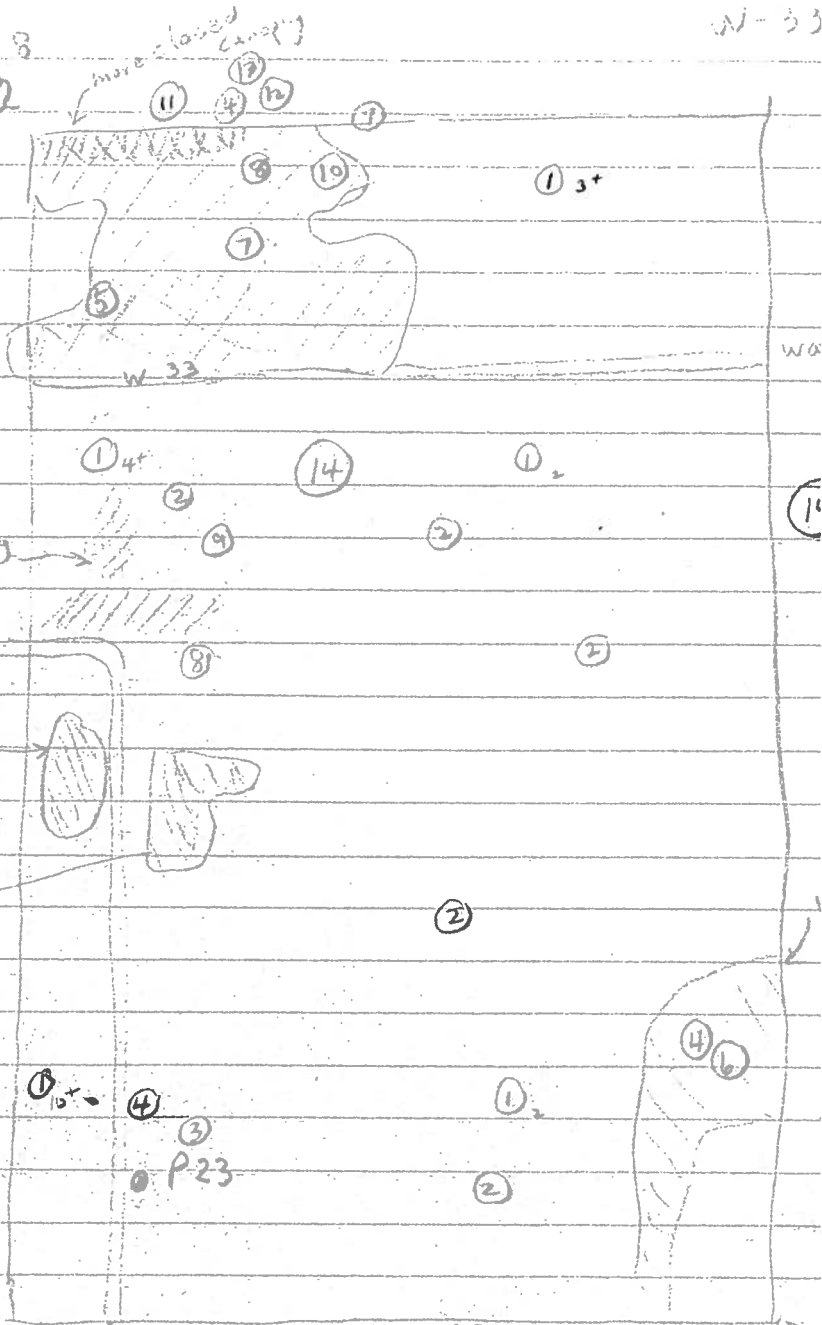
* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 12

Signature: P. Reed
(Field Personnel)

Quality Control: This form is complete & legible .

Signature: Karin
(Project Manager)



- Watercourse
- | | | | | | |
|--------|--------|--------|--------|----------|--------|
| ① BOBO | ③ UPSA | ⑤ BAOR | ⑦ BRTH | ↓ N
↓ | |
| ② SAVS | ④ EAKI | ⑥ EWPE | ⑧ WIFL | | |
| ⑨ CCSP | ⑩ EATO | ⑪ RB&R | ⑫ WOTH | | ⑬ NOFL |

June 3

Feature No.: W-33 Habitat Type: Woods Time Start: 10:00 Time End: 10:20

Record location of all significant species on site map.

- mature at back boundary
- scrubby with some larger trees to N.

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.	H	Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	S
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	A	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	2 S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	lots S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 10 of 12

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Kate S
(Project Manager)

Feature No.:

W-31

Habitat Type:

Woods

Time Start:

10:35

Time End:

10:45

Record location of all significant species on site map.

- grassy floor - grazed
- small trees

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 11 of 12

Signature:

P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Keri S

(Project Manager)

Feature No.: W-30 Habitat Type: Woods Time Start: 10:48 Time End: 10:55

Record location of all significant species on site map.

- grass below - grazed
- small trees (one larger one)
- wet

June 3

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 12 of 12

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Kate L
(Project Manager)

June 3/2011

T-10 W-2 N
C-clear PPT 0

* missed on Day 3 (June 1)

Feature No.: W-8

Habitat Type: woods.

Time Start: 5:00

Time End: _____

Record location of all significant species on site map.

-small sparse trees - bushes under

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

point

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	5
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	5	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 2

Signature: _____

P. Read

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

Keith S.

(Project Manager)

Feature No.:

W-3

Habitat Type:

Woods

Time Start:

5:11

Time End:

5:20

Record location of all significant species on site map.

- along Emerald Drive
 (already have some data from page 8
 May 31/2011)

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	S	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †	AE	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	S
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe	S	European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock	S	Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 2

Signature:

Peter Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:







Karin

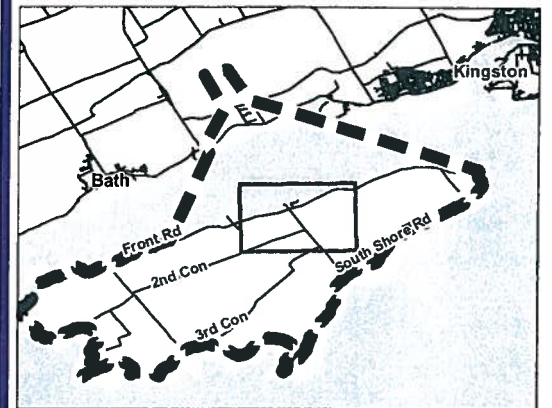
(Project Manager)

REV: 2011-05-27 / FORM 031



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

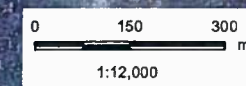
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 5

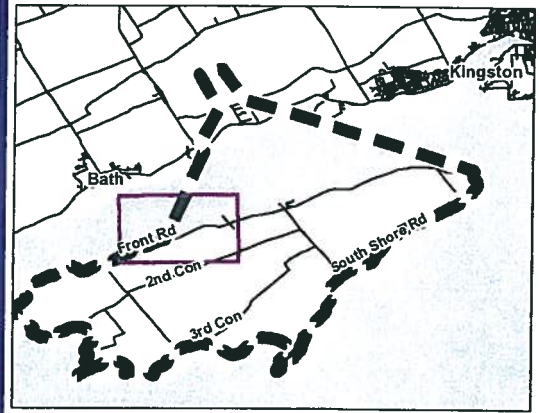
Title

FIELD MAPBOOK





- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 4

Title
FIELD MAPBOOK



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160 960 595 Project Name: Amherst
Date June 4/2011 Field Personnel: Pete Road

Weather Conditions: Temp: 13 Wind: 1 Cloud: 80%+ PPT: 0 PPT in last 24 hrs: 0

GPS #: T 1

Station: P41

Habitat: Forest Swamp Marsh Hay Pasture Crop

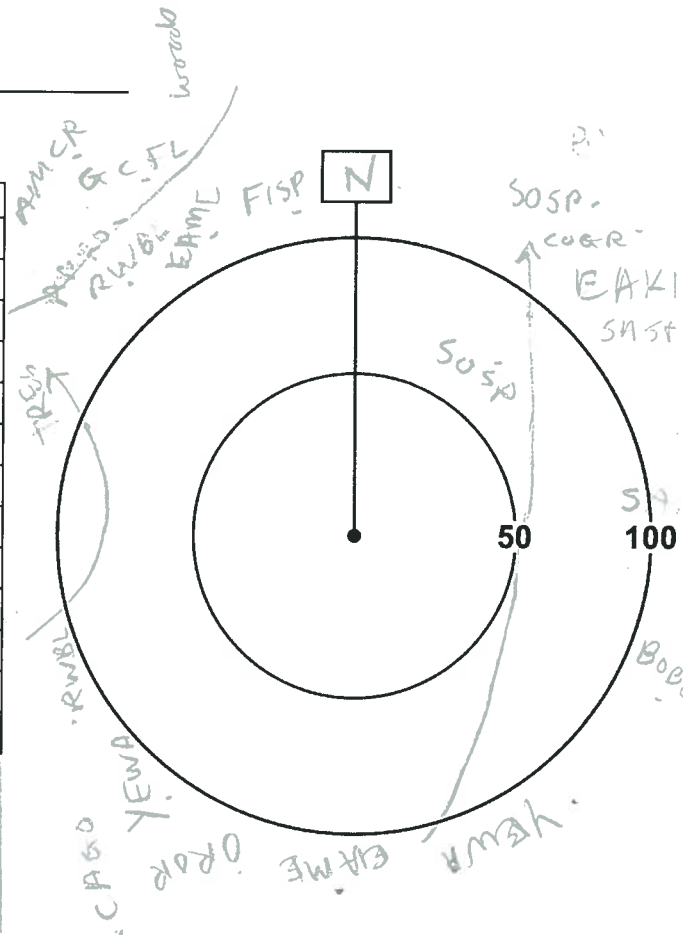
UTM: 363079 4890956 # 228

Start Time: 5:36

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
AMRO			1		A
AMCR			1		A
FISP			1		A
EAME			2		A
RWBL			2		A
GCFL			1		A
SOSP		1	1		A
COGR				1	A
EAKI			1		A
JASP			2		A/O
Yewa			2		A
CAGO			1		A
OROR			1		A

Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

BOBO			1		A
TRES		1			A



Quality Control: This form is complete (✓) & legible (✓)

Signature: P. Road
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 4

REV: May, 07 Form 020

T-14 W-1 C-90+ PPT-0

June 4

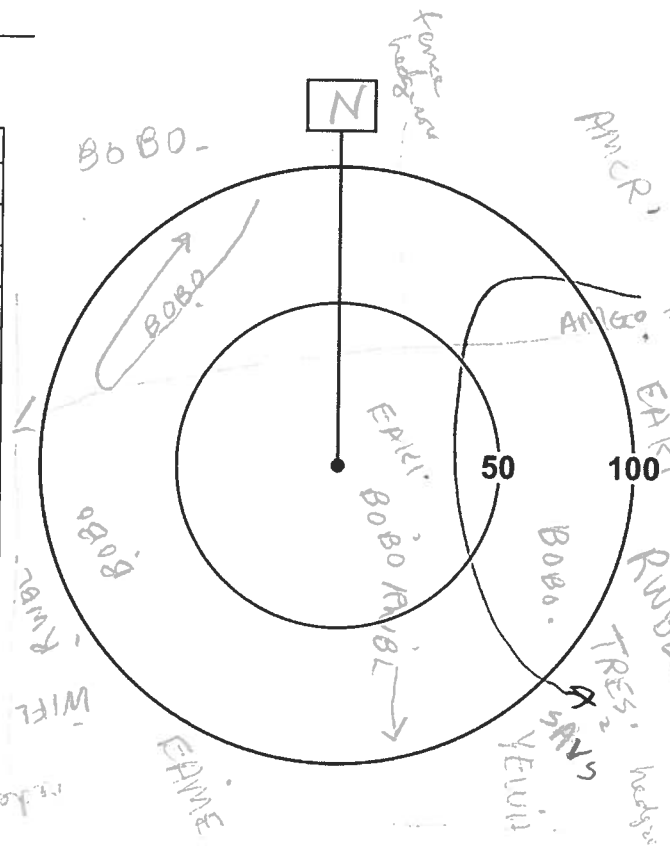
Station: P27

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: 361684 4890390 #230

Start Time: 8:15

Species	<50 m	50-100 m	>100m	Flyovers	Height*
BOBO	1	3	1		A/D
EAKI	1		1		A
AMCR			1		A
AMGO				2	A
RWBL		1	2		A
TRES		2			A
EAME			1		A
WIFL			1		A
YEWA			1		A
SAYS			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P40

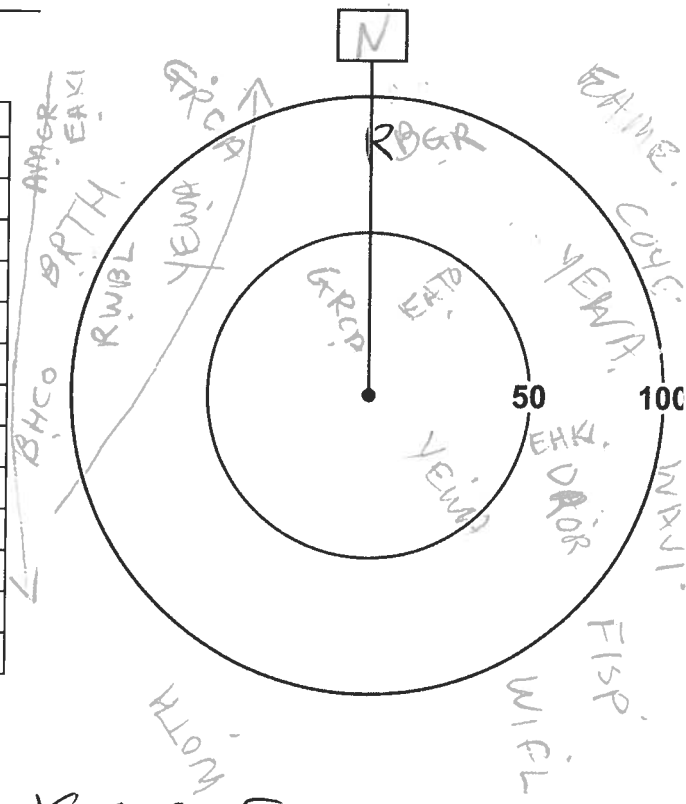
T 14 C 100 PPT 0 W 1

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: 362848 4891489 #231

Start Time: 9:40

Species	<50 m	50-100 m	>100m	Flyovers	Height*
AMCR				1	A
BHCO			1		A
BRTH			1		A
GRCA	1			1	A
RWBL		1			A
YEWA	1	2			A
WIFL			1		A
FISP			1		A
OROR		1			A
EAKI		1	1		A
EATO	1				A
RBGR		1			A
COYE			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)

Signature: P. Road
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

Page 3 of 4



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Stantec

Project Number: 160 960 595

Project Name: Amherst

Date: June 4 / 2011

Field Personnel: P. Read

Weather Conditions:	TEMP (°C): <u>13</u>	WIND: <u>1</u>	CLOUD: <u>80%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	-------------------	----------------------	------------------	-----------------------------------

Feature No.: W-29 Habitat Type: Woods Time Start: 04:50 Time End: 4:45

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

*- wet
- yng trees*

2

6:55

7:00

Map sign. sp on p7

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	<u>2</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	<u>5</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	<u>2</u>	Am. Robin	<u>3</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	<u>5</u>
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	<u>H</u>	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	<u>H</u>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	<u>H</u>	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 12

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: [Signature]

(Project Manager)

Feature No.:

W-28

Habitat Type:

woods

Time Start:

4:55

Time End:

5:00

Record location of all significant species on site map. - wet mostly

② 7:00

7:10

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

map sign-sp - page 4

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	2 S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	2 S	Am. Robin	3* S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock	H	Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	S	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 12

Signature:

P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Karin S.

(Project Manager)

REV: 2011-05-27 / FORM 031

June 4

Feature No.: G 22 Habitat Type: Grassland Time Start: 5:15 Time End: 5:46

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species
3 ign. sp map p 4.

① 5:15
 ② 5:57
 ③ 7:10
 ④ 9:00
 ⑤ 10:00
 6=12
 7=27
 9=15
 10=17

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard	H	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	S
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	S
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	S
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡	H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	CF	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.*		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	D
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	S
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven <i>flyover</i>	H	Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.	H	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 12

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Kate R
 (Project Manager)

Feature No.: W-24 Habitat Type: Woods Time Start: ① 5:46 Time End: 6:12

② 7:55 8:11
 ③ 9:15 10:10
 ④ 10:17 10:25

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

- sign-sp. page 4

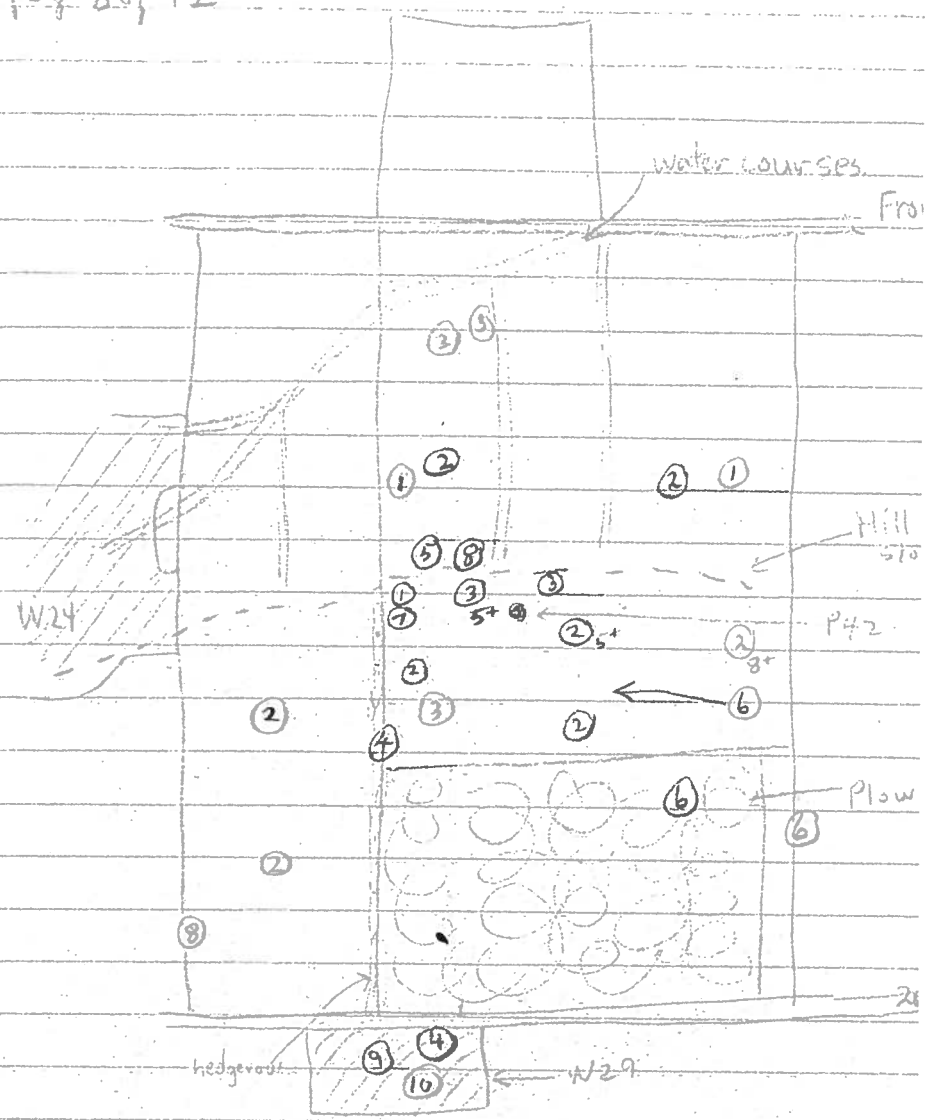
Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	2 S
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl	S	Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch	H	Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	3+ S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	S
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	2+ S
Gr. Egret		Red-bellied Wo.	H	Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	1 S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	P	No. Cardinal	S
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	3+ S	Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	3+ S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.	S	Cedar Waxwing	P	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	D
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	S
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	1+3 S	Baltimore Oriole †	
Am. Woodcock	H	Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven	H	Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove	P	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 12

Signature: P. Reed
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin S.
 (Project Manager)



- ① EAME
- ② BOBO
- ③ SAVS
- ④ EAKI
- ⑤ BATH
- ⑥ NOHA (3 birds)
- ⑦ GRSP
- ⑧ WIFL
- ⑨ EWPE
- ⑩ RBGR

Feature No.: G-23 Habitat Type: Grassland Time Start: 6:12 Time End: 6:55

south half up to hill mostly.

Record location of all significant species on site map. -hill with forest
 ** Endangered, Threatened or Special Concern -hedgerows
 † Partners In Flight
 ‡ Area Sensitive Species map of sign. sp. page 7

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat pond S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡ flyover x		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † S	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † S	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. † 2 S	
Osprey flyover x		Hairy Wo.		Veery		Song Sp. S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. pond S	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink † lots DD	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl. T	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † 3+ S	
Killdeer H		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle H	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. H	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven	H	Yel-rumped Wa. ‡		Am. Goldfinch P	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: [Signature]
 (Project Manager)

June 4

Feature No.: W-27 Habitat Type: Woods. Time Start: 8:40 Time End: 8:59

Record location of all significant species on site map. -larger trees (S)
** Endangered, Threatened or Special Concern -brushy (N)
† Partners In Flight
‡ Area Sensitive Species

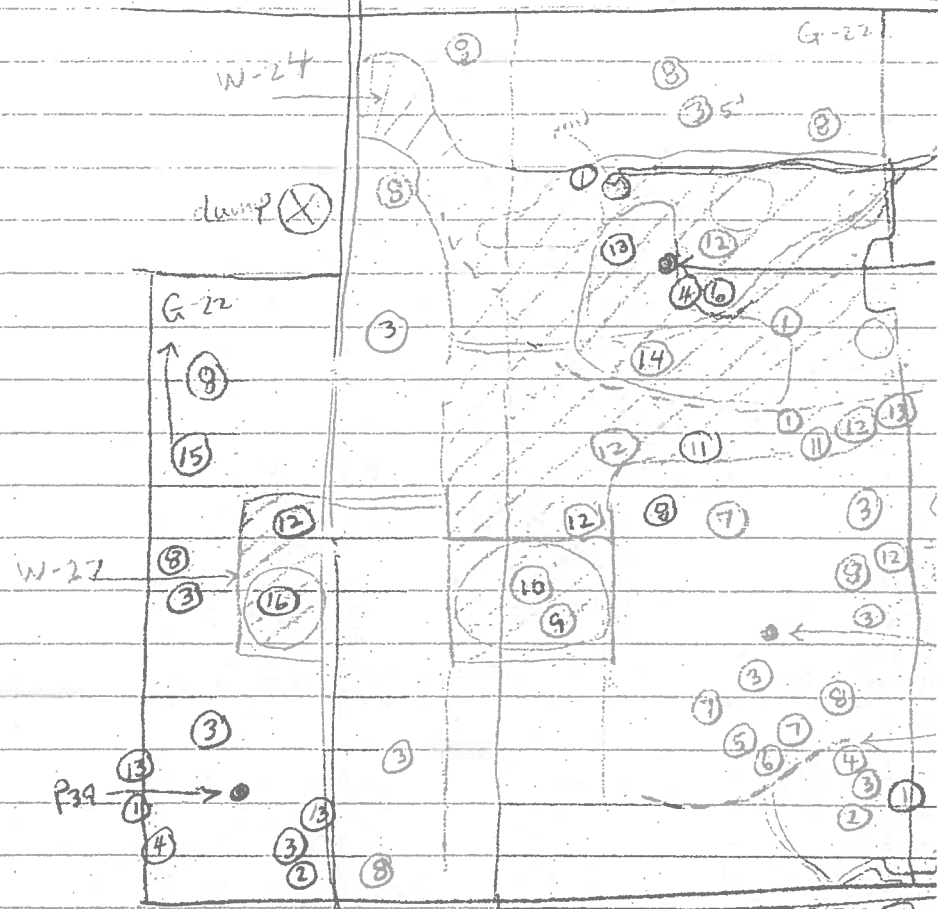
Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing	P	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	4 ⁺ S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	2 ⁺ S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 6 of 12

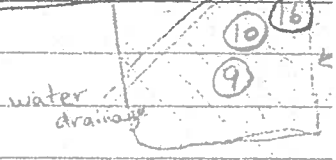
Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: [Handwritten Signature]
(Project Manager)



* unusual
not significant perch fence

- ① WIFL
- ② SHVS
- ③ BOBO
- ④ EAKI
- * ⑤ CCSP
- * ⑥ OROR
- ⑦ GRSP
- ⑧ EAME
- ⑨ RBGR
- ⑩ EWPE
- ⑪ FISP
- ⑫ EATO
- ⑬ BRTH
- ⑭ WOTH
- ⑮ NOHA
- ⑯ BAOR



June 4

Feature No.: G-19 Habitat Type: Grassland Time Start: 07:30 Time End: 7:55

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

② 8:11 8:33
③ 10:36 10:52

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	10+ T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull <i>flyover</i> X		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven	H	Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 12

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible .

Signature: [Signature]
(Project Manager)

Feature No.: W-25 Habitat Type: Woods Time Start: 7:30 Time End: 7:55

Record location of all significant species on site map. -brushy
 ** Endangered, Threatened or Special Concern -some more mature.
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>5+</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	<u>S</u>	Eastern Towhee † <u>2+</u>	<u>S</u>
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	<u>S</u>
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>lots</u>	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	<u>S</u>	Am. Robin <u>lots</u>	<u>S</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>2+</u>	<u>S</u>	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † <u>2+</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † <u>2+</u>	<u>S</u>	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>10+</u>	<u>T</u>
Sora		Gr. Crested Fly.		Cedar Waxwing	<u>P</u>	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	<u>H</u>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>lots</u>	<u>S</u>	Baltimore Oriole †	<u>S</u>
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	<u>RE</u>	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 11 of 12

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Katrina
 (Project Manager)



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



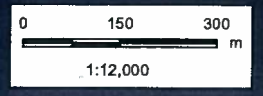
Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT




Figure No.
Tile 7

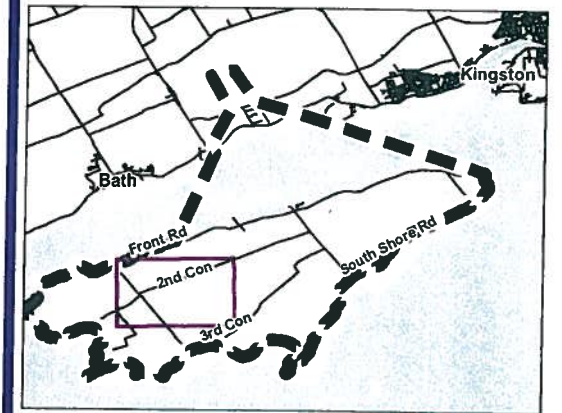
Title
FIELD MAPBOOK





Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optional
-  Not Optional



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

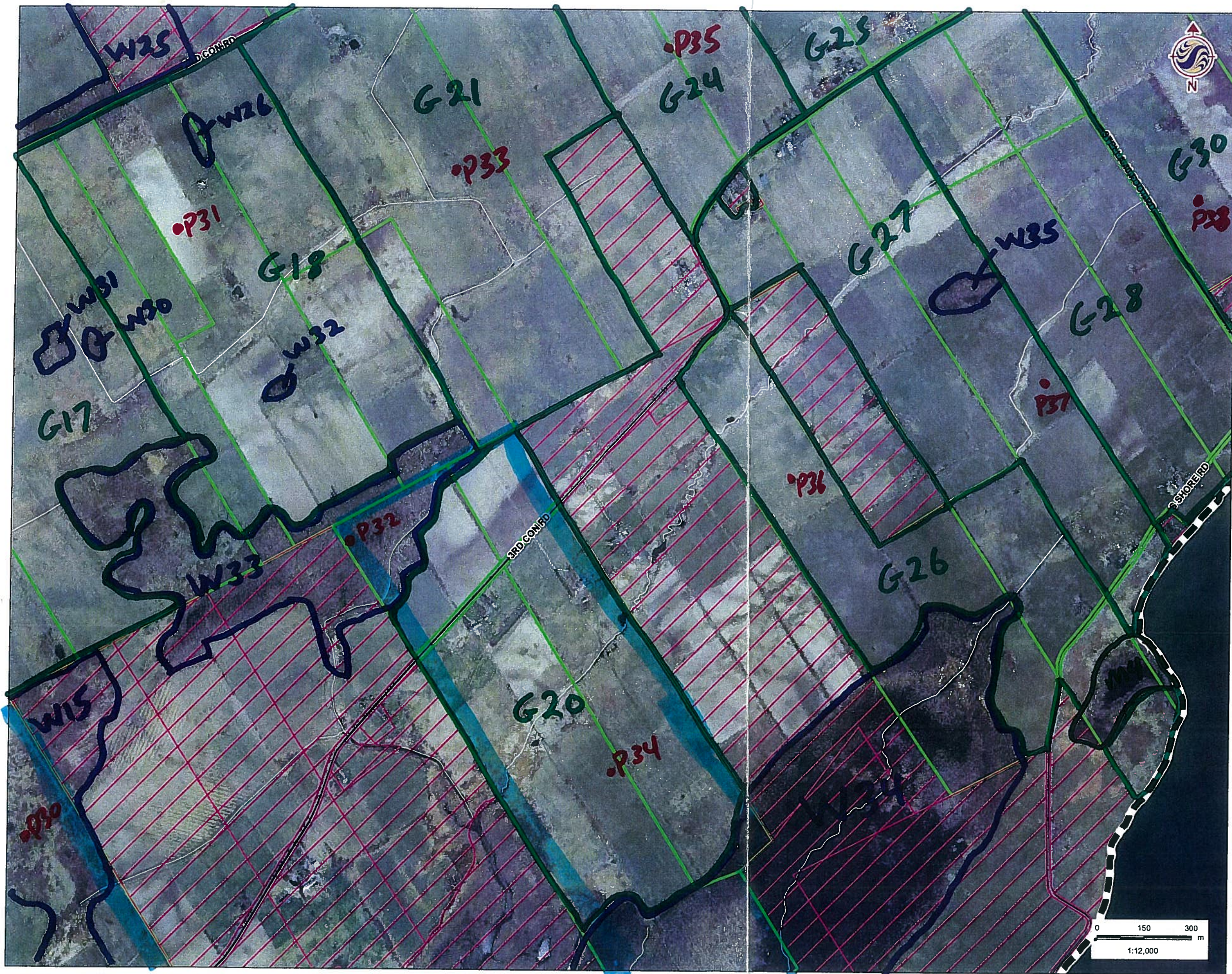
Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 3

Title

FIELD MAPBOOK



Legend

- Study Area
- Road
- Watercourse
- Amphibian Station
- Property Status**
- Optioned
- Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

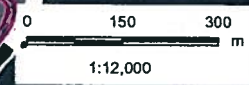
May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 6

Title
FIELD MAPBOOK





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595 Project Name: Amherst
Date June 5 / 2001 Field Personnel: P. Read

Weather Conditions: Temp: 12 Wind: 0 Cloud: 90% PPT: 0 PPT in last 24 hrs: .1 cm

GPS #: T 1

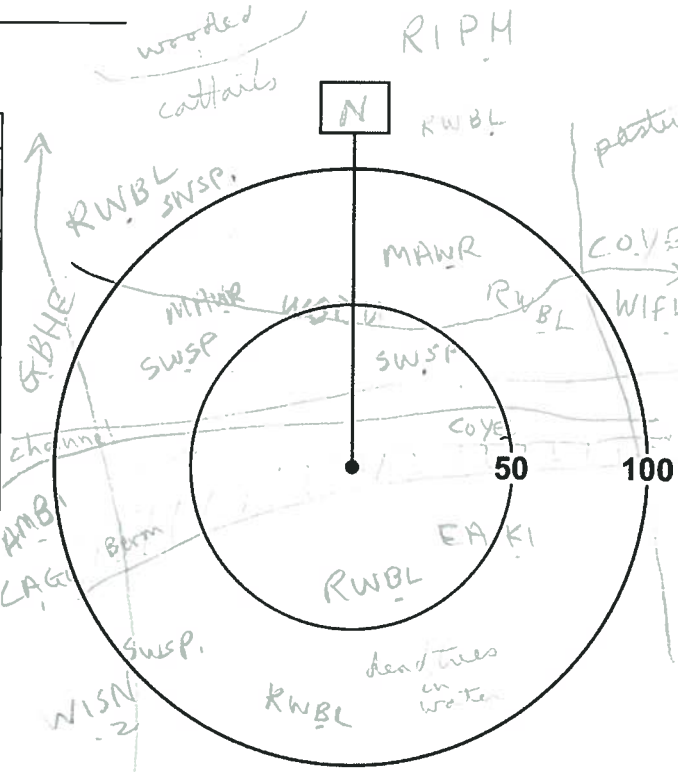
Station: P62

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 363678 4887419 #233

Start Time: 10:00

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RWBL	1	2	2		A
SWSP	1	2	1		A/O
MAWR		2			A
GBHE				1	A
WODU				1	A
COYE	1		1		A/O
EAKI	1				A
WIFL				1	A
AMBI			1		O
CAGO			1		O
WISN			2		A/O
RIPH			1		O



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)
Signature: P. Read
(Field Personnel)

Signature: [Signature]
(Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Stantec

Project Number: 160960595
 Date: June 5 / 2011

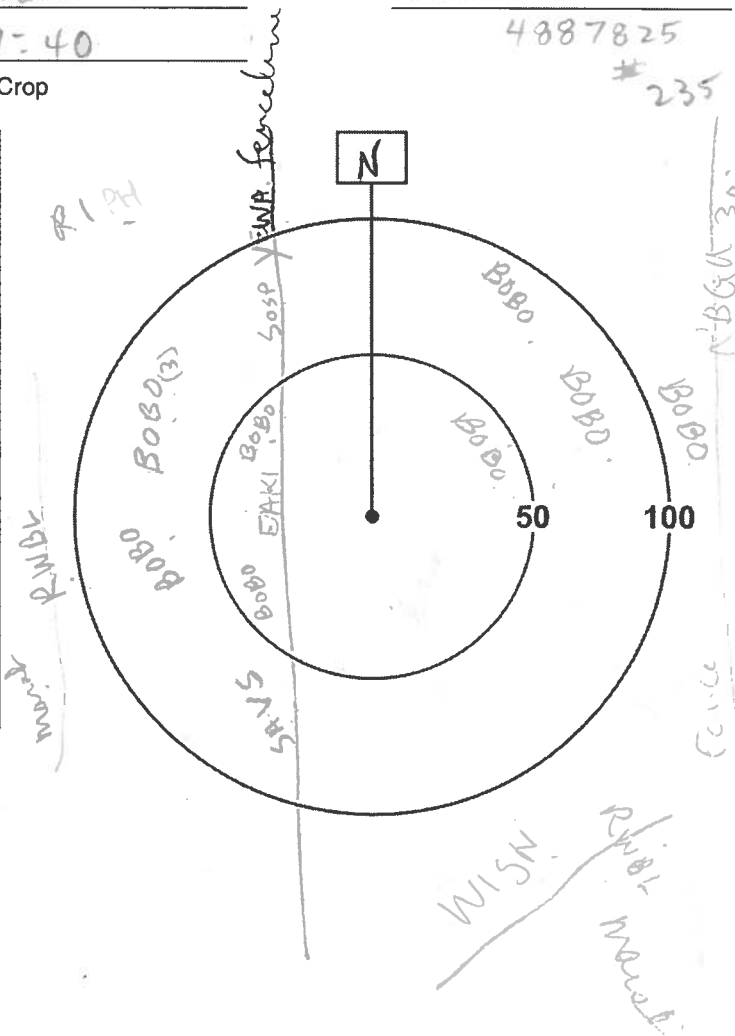
Project Name: Amherst
 Field Personnel: Pete Read

Weather Conditions:	TEMP (°C): <u>14</u>	WIND: <u>1 W</u>	CLOUD: <u>100 %</u>	PPT: <u>0</u>	PPT (in last 24 hrs):
---------------------	-------------------------	---------------------	------------------------	------------------	-----------------------

GPS #: T -1

Station: 34 Feature: Grass UTM: 363921
 Start Time: 7:30 End Time: 7:40 4887825
 Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop # 235

Species	<50m	50-100m	>100m	Flyovers	Height*
RIPM			1		A
YEWA		1			A
SOSP		1			A
BOBO	3	6	1		A
RWBL			2		A
WISN			1		A
RBGU			30		O
EAKI	1				A
SAYS		1			A



* Height of blade sweep varies from project to project; check with project manager.
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;
 C-Above height of blade sweep; D-Well above height of blade sweep

Page 3 of 7

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin
 (Project Manager)

T-15 C 100% W 1w PPT 0

Station: P32

Feature: WOODS

UTM: 362934 4898565

Start Time: 8:05

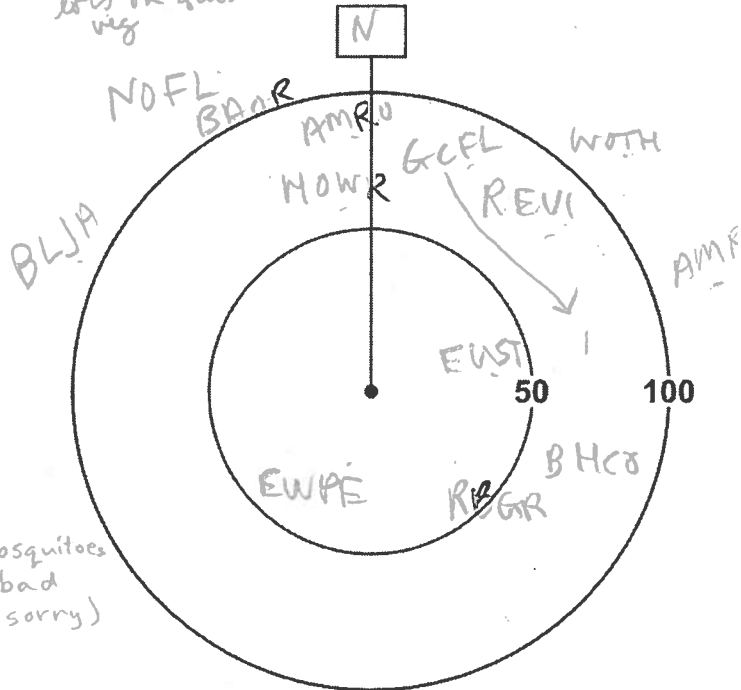
End Time: 8:15

236

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

deep but
lots on ground
veg

Species	<50m	50-100m	>100m	Flyovers	Height*
NOFL			1		A
BAOR			1		A
BLJA			1		A
AMRO		1	1		A
WOTH			1		A
GCFL		1			A
REVI		1			A
MOWR		1			A
EWPE	1				A
EWST	1				A
RBGR		1			A
BHCO		1			A



* Height of blade sweep will vary from project to project; check with project manager.
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;
C-Above height of blade sweep; D-Well above height of blade sweep

T-15 C-70% W-1w PPT-0

Station: P28

Feature: Marsh

UTM: 361649 4886291

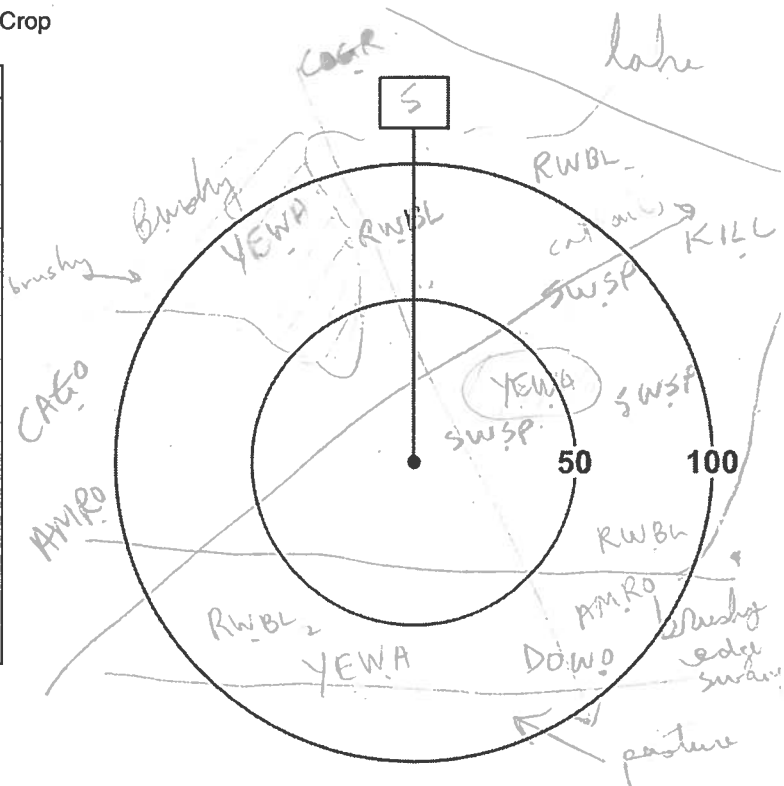
Start Time: 8:35

End Time: 8:45

237

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
COGR				1	A
YEWA	1	2			A
RWBL		4	1		A
KILL			1		O
SWSP	1	2			O
CAGO			1		O
AMRO		1	1		A
DOWO		1			A



* Height of blade sweep will vary from project to project; check with project manager.
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;
C-Above height of blade sweep; D-Well above height of blade sweep

Page 4 of 7

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible

Signature: [Signature]

(Project Manager)



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 160960595

Project Name: Amherst

Date: June 5 / 2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>13</u>	<u>1 S</u>	<u>100%</u>	<u>0</u>	<u>.1 cm</u>

Feature No.: G 20 Habitat Type: Grassland Time Start: 5:15 Time End: 6:40

Record location of all significant species on site map.

- fences + hedgerows @ 7:20
7:50

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

* species in trees near houses.

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	<u>H</u>	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	<u>H</u>	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee *	<u>S</u>	No. Waterthrush ‡	
R. N. Pheasant	<u>S</u>	Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch *	<u>H</u>	Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren *	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp. *	<u>S</u>
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	<u>S</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	<u>S</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	<u>lots</u> <u>CF</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	<u>lots</u> <u>D</u>
Virginia Rail		Ea. Phoebe		European Starling	<u>H</u>	Red-winged Bl.	<u>lots</u> <u>T</u>
Sora		Gr. Crested Fly.		Cedar Waxwing	<u>P</u>	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	<u>P</u>	Blue-wing. Wa. †		Co. Grackle	<u>H</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	<u>H</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo *	<u>S</u>	Yellow Wa.	<u>S</u>	Baltimore Oriole † *	<u>S</u>
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.	<u>2+</u> <u>H</u>	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	<u>H</u>	Pine Wa. ‡			
Mourn. Dove *	<u>S</u>	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 12

Quality Control: This form is complete & legible

Signature: P. Read
 (Field Personnel)

Signature: Karin S
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

M-3

Habitat Type:

Marsh

Time Start:

①

5:40

Time End:

6:40

doing P62 etc (east)

②

8:30

9:15

doing P29 etc. (west)

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	H	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du. flyover	H	Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow flyover	x	Ovenbird ‡	
Mallard flyover	H	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	5 ⁺ S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡ flyover	H	Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern	S	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron flyover	H	Red-headed Wo** †		Marsh Wren	2 ⁺ S	Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	lots S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	lots T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle flyover	CF
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull flyover	H	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow flyover	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 12

Signature:

P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Karin S.

(Project Manager)

REV: 2011-05-27 / FORM 031

June 5

Feature No.: W-34 Habitat Type: Woods Time Start: 6:45 Time End: 7:20

Record location of all significant species on site map. - some closed canopy drier
- some more open wet

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	2+ S
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡	S	Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 12

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible

Signature: Ken S
(Project Manager)

Feature No.: W-33 Habitat Type: Woods Time Start: 8:00 Time End: 8:25

Record location of all significant species on site map.

- some mature closed canopy
- some brushy edge

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	H
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.	S	Cedar Waxwing	P	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

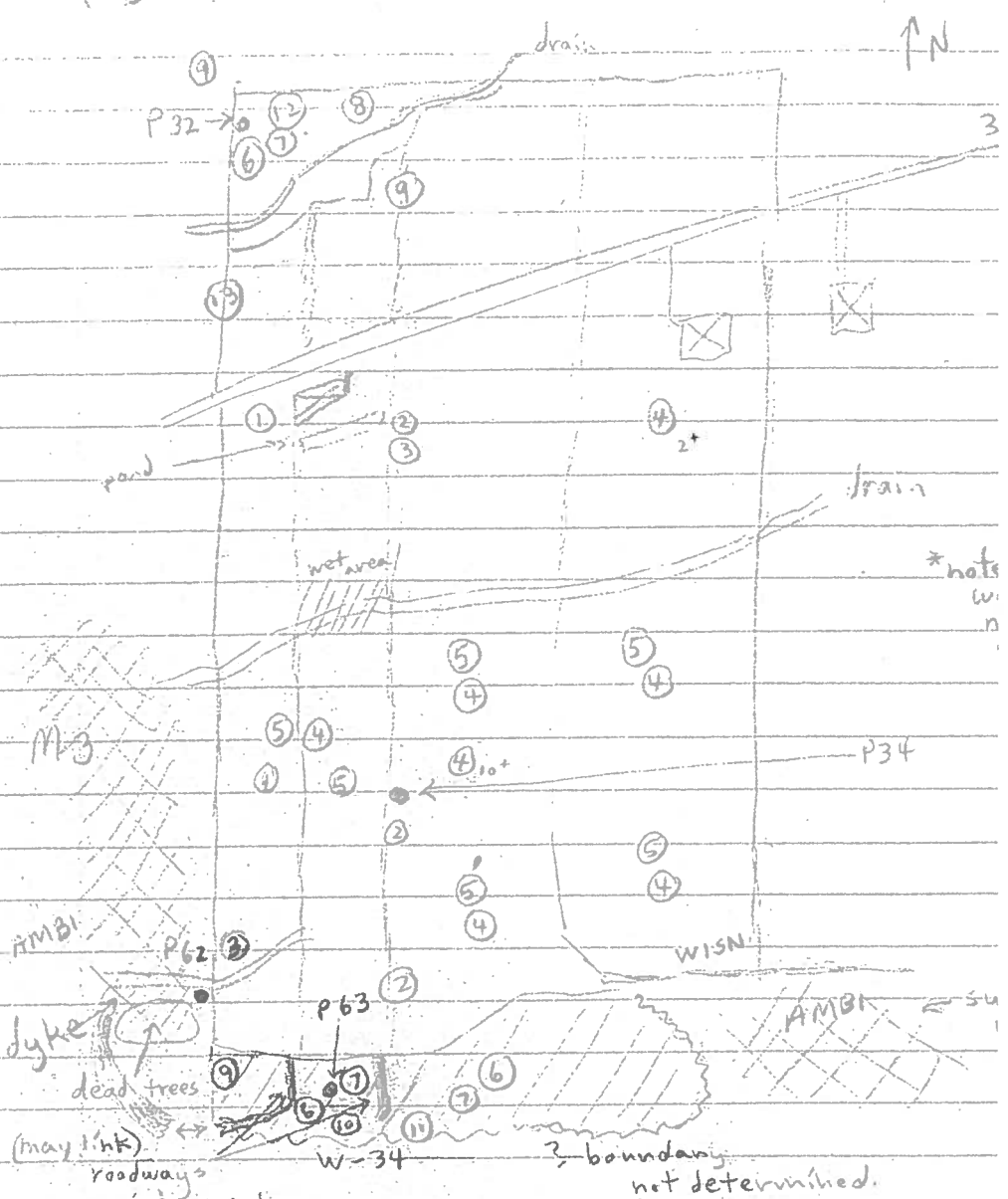
* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 12

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible

Signature: Karri S
(Project Manager)



- | | | |
|-------------------|--------|--------|
| ① RIPH. (penned?) | ⑥ EWPE | ⑪ BRGR |
| ② EAKI | ⑦ RBGR | ⑫ BAOR |
| ③ WIFL | ⑧ WOTH | ⑬ BRTH |
| ④ BOBO | ⑨ NOFL | |
| ⑤ SAVS | ⑩ AMRE | |



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 160960595

Project Name: Amherst

Date: June 5 / 2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>16</u>	<u>1 W</u>	<u>100%</u>	<u>0</u>	<u>21 cm</u>

Feature No.: W-36 Habitat Type: Woods Time Start: ^① 8:25 Time End: 8:30

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

-swamp with buttonbush (W)
 -wet woods some brush areas (E)

② 11:28

11 = 34.

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo	S	Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	A
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

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Quality Control: This form is complete & legible

Signature: P. Read
 (Field Personnel)

Signature: Karin S.
 (Project Manager)

Feature No.: G 14 Habitat Type: Grassland Time Start: ① 9:15 Time End: 9:25
 ② 9:40 9:57
 ③ 11:10 11:34

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	S
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

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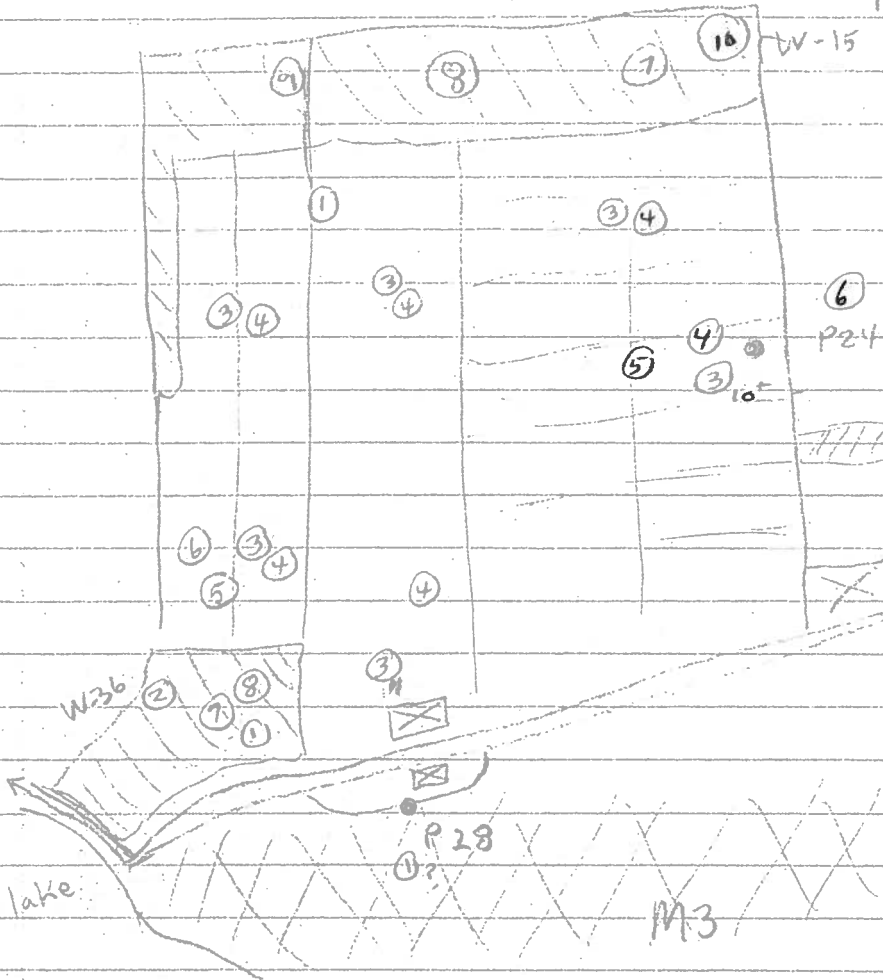
Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: [Handwritten Signature]
 (Project Manager)

Significant species

G 14, W-15, W-

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① WIFL

② NOFL

③ BOBO

④ SAVS

⑤ GRSP

⑥ EAME

⑦ RBGR

⑧ EWPE

⑨ YBSA

⑩ AMRE

Feature No.: G-15 Habitat Type: Grassland Time Start: ① 9:25 Time End: 9:40
② 9:57 10:03

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

June 5

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡	H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	S
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 12

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin
 (Project Manager)

Feature No.: W-37 Habitat Type: "Woods" Time Start: 9:36 Time End: 9:40

Record location of all significant species on site map. *- wetland cattails
phragmites
bushes & few trees*

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 11 of 12

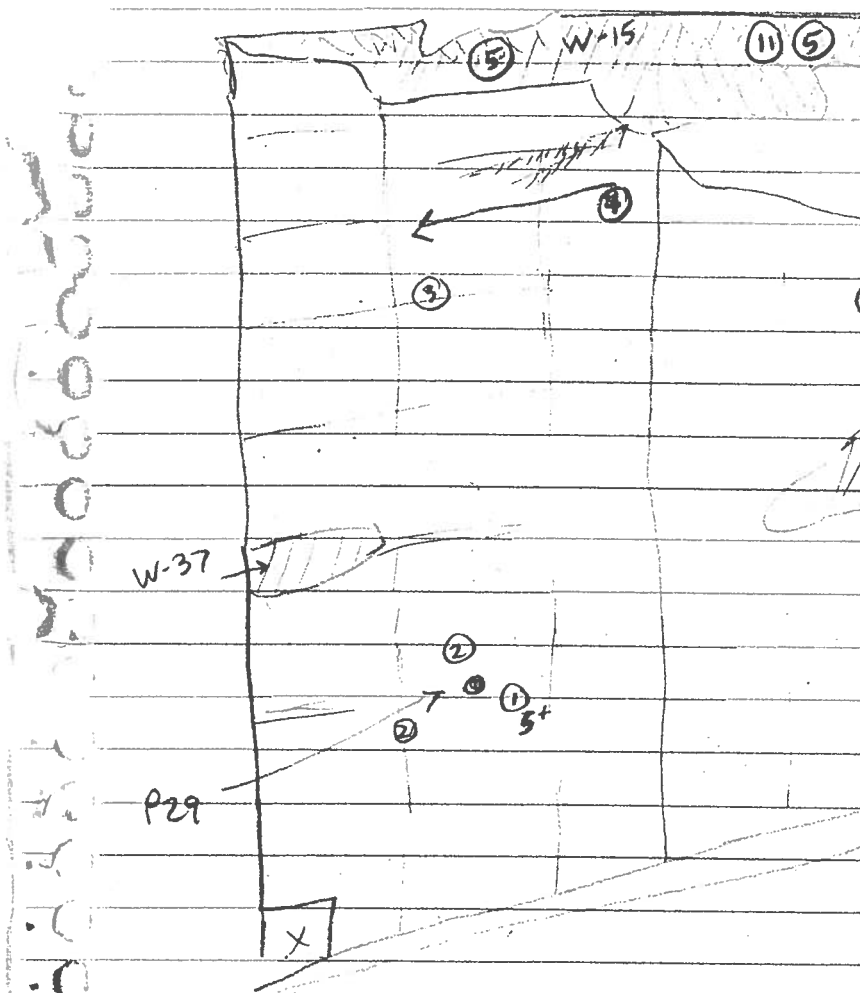
Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: [Signature]
(Project Manager)

p10 of 12

Significant Spe

G 15, W.



- | | | |
|--------|--------|------|
| ① BOBO | ⑤ RBGR | ⑨ BA |
| ② SAYS | ⑥ EWPE | ⑩ WC |
| ③ WIFL | ⑦ EAKI | ⑪ YI |
| ④ NOHA | ⑧ WIFL | |

June 5

Feature No.: W-15 Habitat Type: Woods Time Start: 10:03 Time End: 11:10

Record location of all significant species on site map. *- some older more closed canopy*
 ** Endangered, Threatened or Special Concern *- some brushy areas*
 † Partners In Flight *- scattered bush & trees*
 ‡ Area Sensitive Species

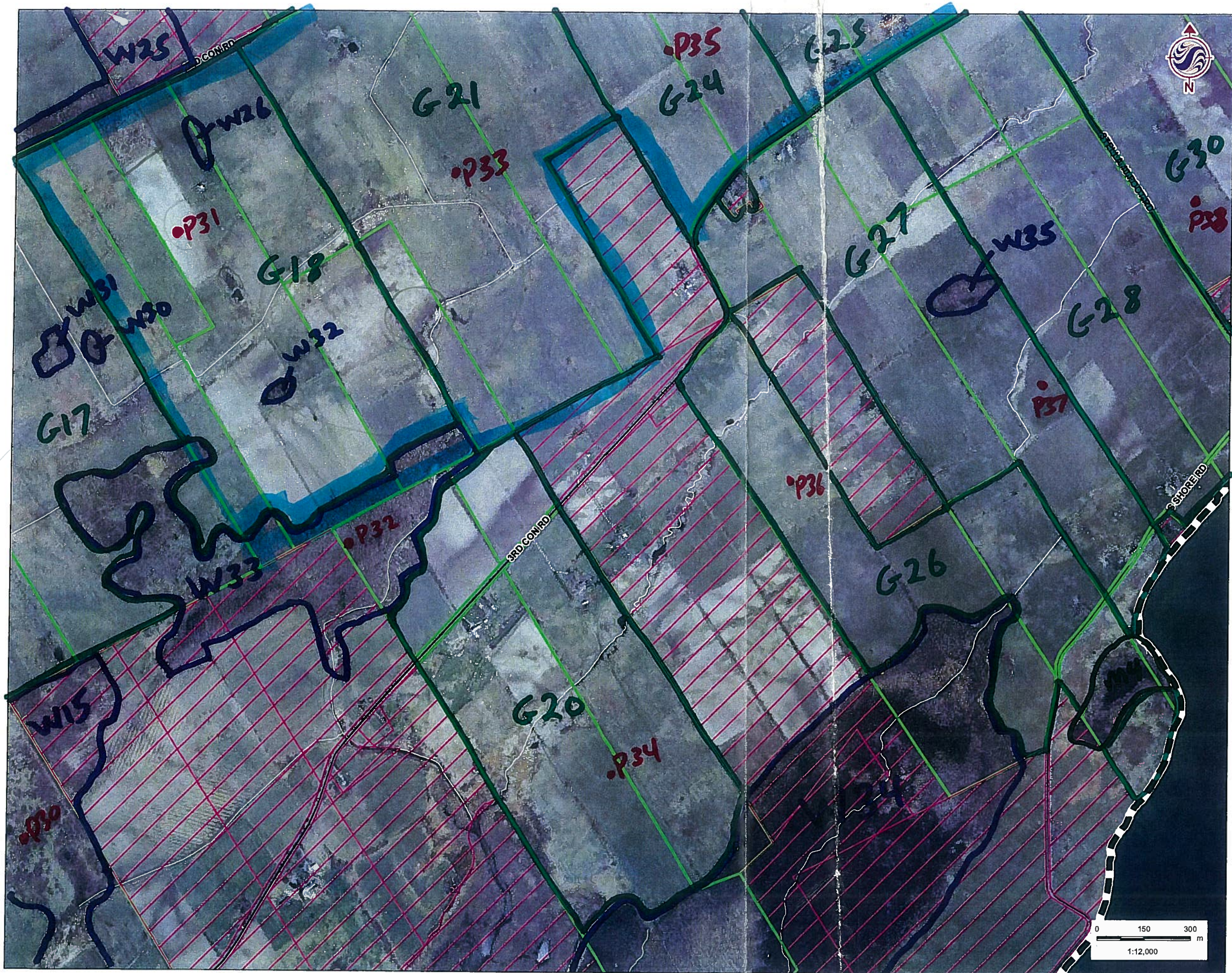
Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	S
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.	H	Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡	M	B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.	M	Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	S
Red-tailed Hawk	P	Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	H	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 12 of 12

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: [Handwritten Signature]
 (Project Manager)



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
 - Property Status**
 - Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008

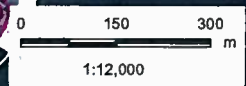


May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT







Figure No.
Tile 6

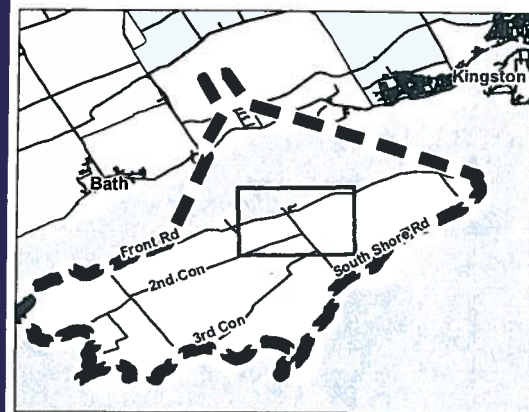
Title
FIELD MAPBOOK





Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

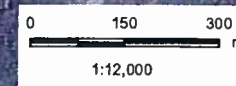
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 5

Title

FIELD MAPBOOK





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number: 160 960 595
Date: June 6 / 2011

Project Name: Amherst
Field Personnel: Pete Read

Weather Conditions:	Temp: <u>12</u>	Wind: <u>0</u>	Cloud: <u>0</u> <small>100 m</small>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
---------------------	-----------------	----------------	--------------------------------------	---------------	------------------------------

GPS #: T-1

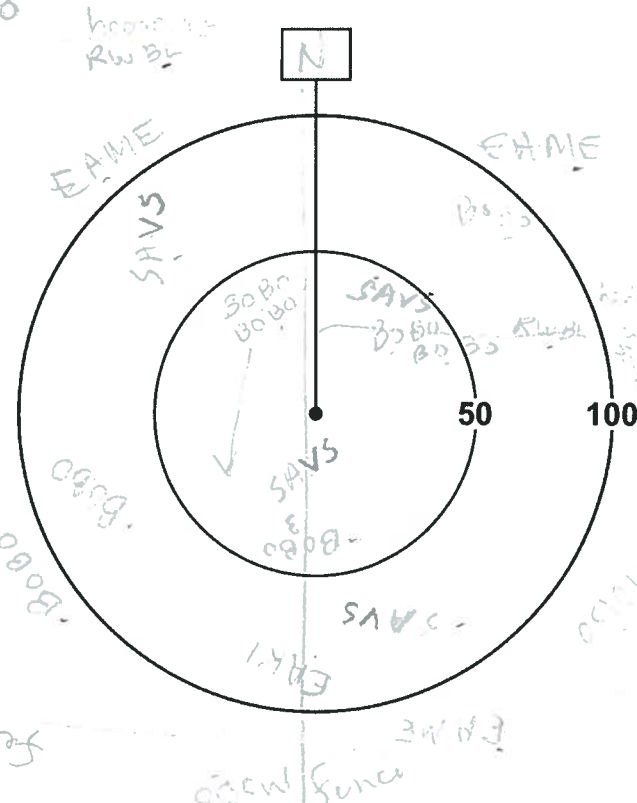
Station: P44

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 364437 732080 #248

Start Time: 5:50

Species	<50 m	50-100 m	>100m	Flyovers	Height*
RWBL		1	1		A
EA ME			3		A
BOBO	7	2	1		A
SAVS	2	2			A
MODO			2		A
SOSP			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)
Signature: P. Read
(Field Personnel)

Signature: K. Sun
(Project Manager)

C light fog visibility > 400m

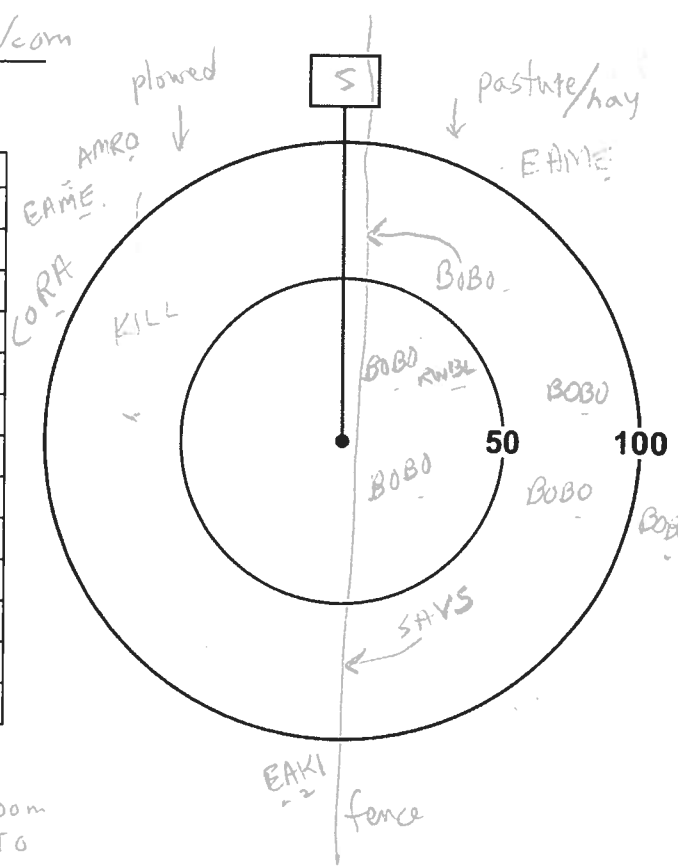
Station: 43

Habitat: Forest Swamp Marsh Hay Pasture Crop plowed field/corn

UTM: 363789 4890437 #450

Start Time: 6:20

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
AMRO			1		A
EAME			2		A
CORA			1		A
BOBO	2	3	1		A
RWOL	1				A
SAVS		1			A
EAKI			2		A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: 35

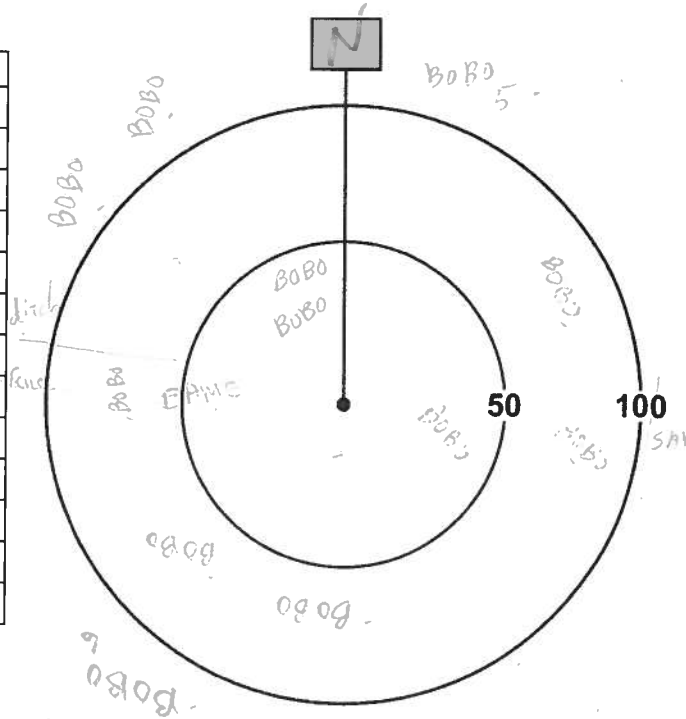
T-10 C light fog vis > 300m
 W=0 PPTG
 clear above

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 363809 4890106 #351

Start Time: 6:40

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BOBO	3	5	13		A
EAME	1				A
SAVS			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()

Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

fence

light fog vis > 300m

June 6

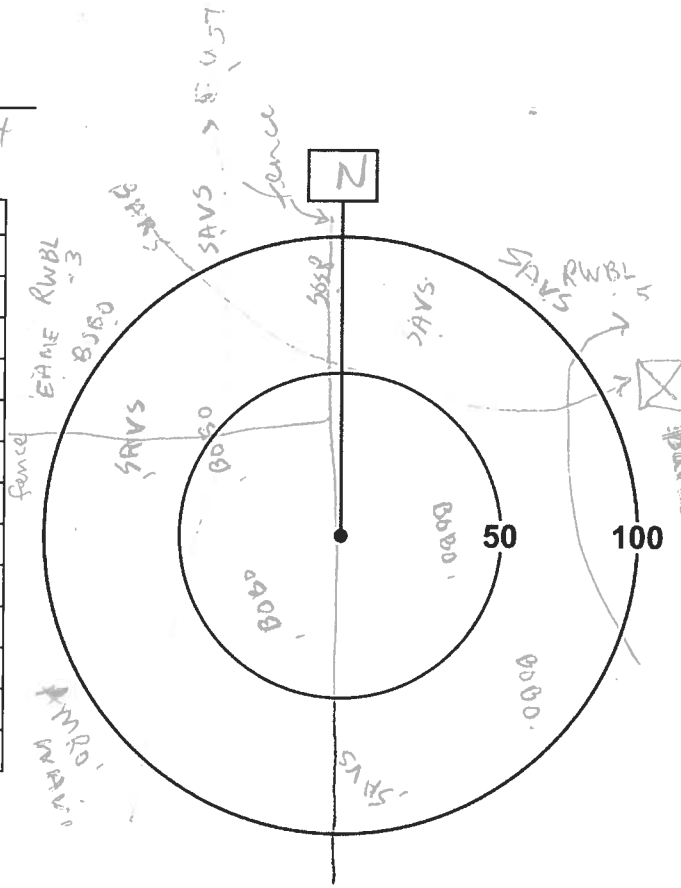
Station: 31

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 362279 4889644 #254

Start Time: 7:35

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
FEWT				1	A
SAVS		3	2		A
BOBO	3	1	1		A
SOSP		1			A
RWBL		5	3		A
EAME			1		A
AMRO			1		A
WAVI			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

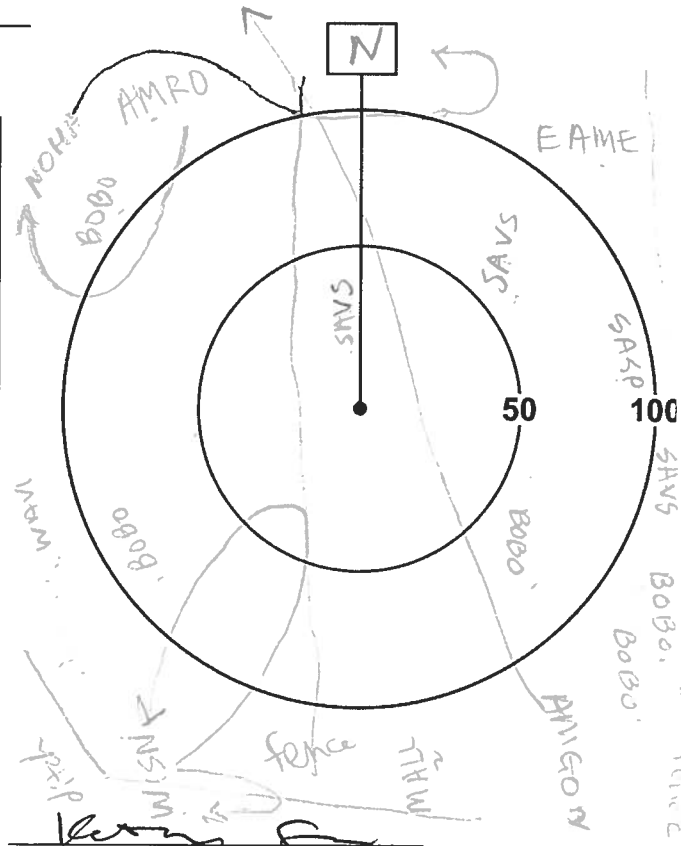
Station: P33

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 363180 4889908 #255

Start Time: 8:15

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
NOHA				1	A
AMRO			1		A
BOBO		2	3		A
EAME			1		A
SAVS	1	2			A
WAVI			1		A
WISN				1	A
MALL			2		A
AMGO				2	A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()

Signature: P. Read
 (Field Personnel)

Signature: [Signature]
 (Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 160 960 595

Project Name: Amherst

Date: June 6 / 2011

Field Personnel: P. Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>12</u>	<u>0</u>	<u>light of fog</u>	<u>0</u>	<u>0</u>

Feature No.: G 25 Habitat Type: Grassland Time Start: 5:00 Time End: 6:05

Record location of all significant species on site map. -some hedgerow

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	CF	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	P
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	H	Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	S	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 12

Quality Control: This form is complete & legible .

Signature: P. Read
 (Field Personnel)

Signature: Kurti
 (Project Manager)

Feature No.: G-24 Habitat Type: Grassland Time Start: 6:07 Time End: 7:05

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard	P	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer	DD	Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	S	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 12

Signature: P. Read
 (Field Personnel)

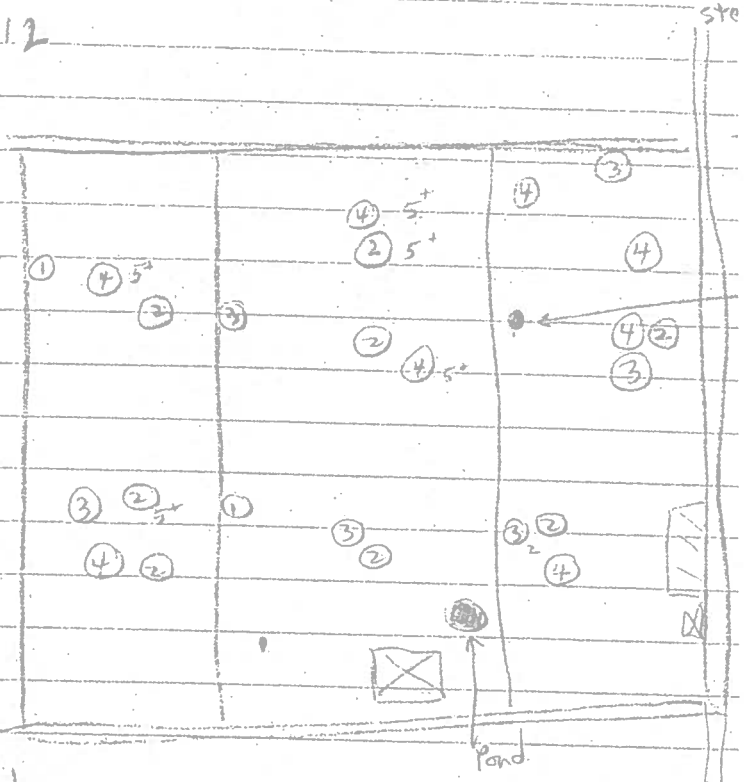
Quality Control: This form is complete & legible
 Signature: [Signature]
 (Project Manager)

Significant Species

page 3

G: 25

of 12

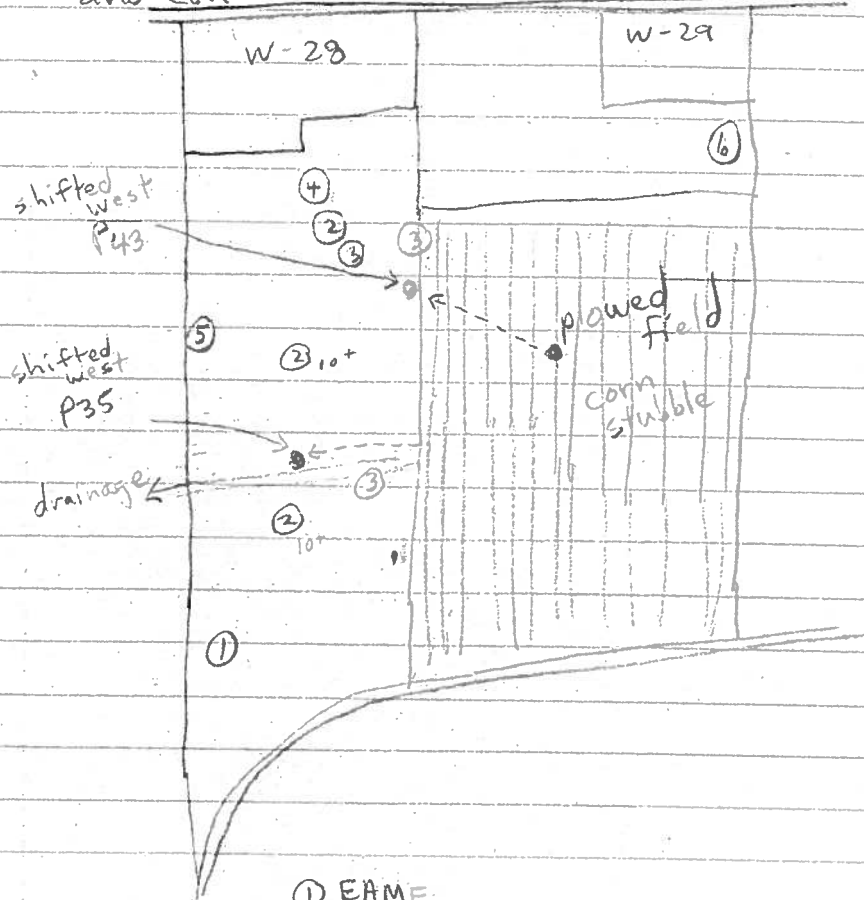


- ① EAKI
- ② SHVS
- ③ EAME
- ④ BOBO

Significant Species

p4 of 12 G-24

2nd Con



- ① EAME
- ② BOBO
- ③ SAVS
- ④ EAK
- ⑤ UPSA
- ⑥ NOHA

① 7:29 - 8:06 June 6

Feature No.: G 18 Habitat Type: Grassland Time Start: ② 9:10 Time End: 9:26

Record location of all significant species on site map. - some hedgerows.

③ 9:25 - 9:31

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡†	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡†	
Pied-b. Grebe		Whip-poor-will ‡†		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	S
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier ‡†	M	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk ‡†		Alder Fly.	S	Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	P	Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing	P	Ea. Meadowlark †	S
Killdeer	P	Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole <i>flyover</i> *H	
Wilson's Snipe	S	Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.	H	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡†			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 12

Signature: _____

P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Kati

(Project Manager)

REV: 2011-05-27 / FORM 031

new on map ↓ area south of W-25 north of 2nd Conc.

Feature No.: W-25 Habitat Type: Woods Time Start: 7:15 Time End: 7:25

Record location of all significant species on site map. - wet thicket more closed canopy to N
 ** Endangered, Threatened or Special Concern - more open scattered trees/bushes
 † Partners In Flight - approx size 200x300 m.
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	H	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	CF
Sora		Gr. Crested Fly.		Cedar Waxwing	H	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	M	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 6 of 12

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible

Signature: [Handwritten Signature]

(Project Manager)

REV: 2011-05-27 / FORM 031

June 6

Feature No.: W 33 Habitat Type: Woods Time Start: 9:16 Time End: 9:25

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

* includes part in G18 and G21
09:10 - 9:15
along south drain

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	P	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 12

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: [Signature]
(Project Manager)

Feature No.: W-32 Habitat Type: Woodland Time Start: 9:31 Time End: 9:38

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	FY	Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	H
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 8 of 12

Signature: _____

P. Read

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

Kerlin

(Project Manager)

REV: 2011-05-27 / FORM 031

Significant Species

P 8 of 12

new extra

new does not

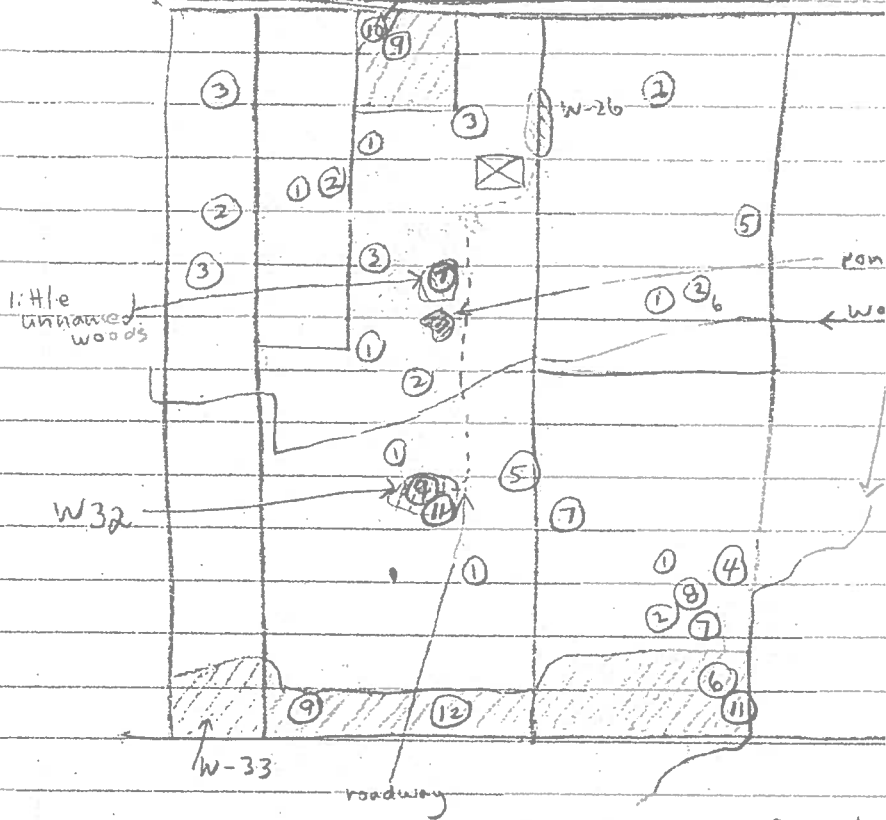
G-18, W-25, W-32, W-26, v

continuous with
2nd Conc.

W-25 to PL

new W-26A

fly across street



- ① SAVS
- ② BOBO
- ③ EAME
- ④ WIFL
- ⑤ NOHA
- ⑥ NOFL
- ⑦ EAKI
- ⑧ GRSP
- ⑨ EWPE
- ⑩ BRTH
- ⑪ BAOR
- ⑫ RPGR

W-26 just a few tr
a laneway
W-26A is a small w.r
north of farm
W-25 continuous h
across r

W50

unnamed small woods next to dugout

June 6

Feature No.: _____ Habitat Type: Woods Time Start: 8:48 Time End: 7:53

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	CF	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 10 of 12

Signature: P. Reed
(Field Personnel)

Quality Control: This form is complete & legible

Signature: [Signature]
(Project Manager)

June 6

Feature No.: G-21 Habitat Type: Grassland Time Start: 8:06 Time End: 9:10

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡ <u>35 Aug 04</u>	X	Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡	H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	P
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer	H	Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	A	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.		Baltimore Oriole † *	S
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* in dead trees - likely came from W33

Pg. 11 of 12

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible

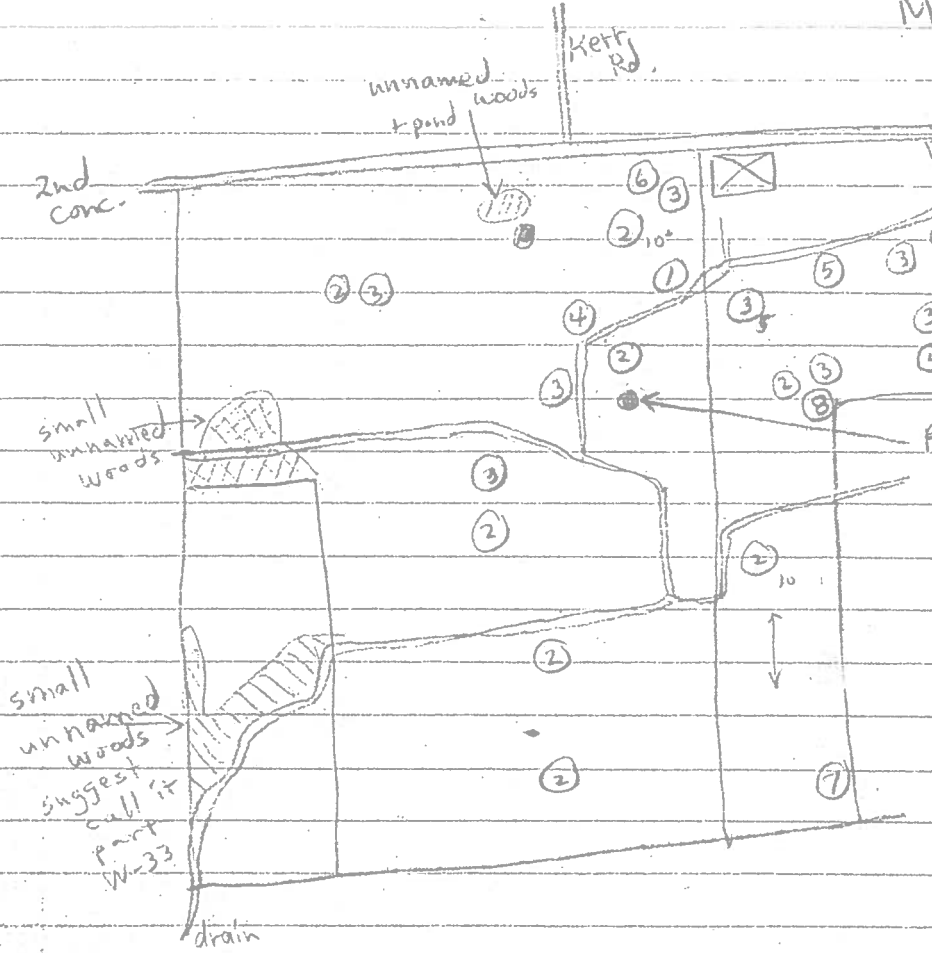
Signature: [Signature]

(Project Manager)

REV: 2011-05-27 / FORM 031

p/R of 12 G-21 + add on small portion u

M



① EAME

② BOBO

③ SAVS

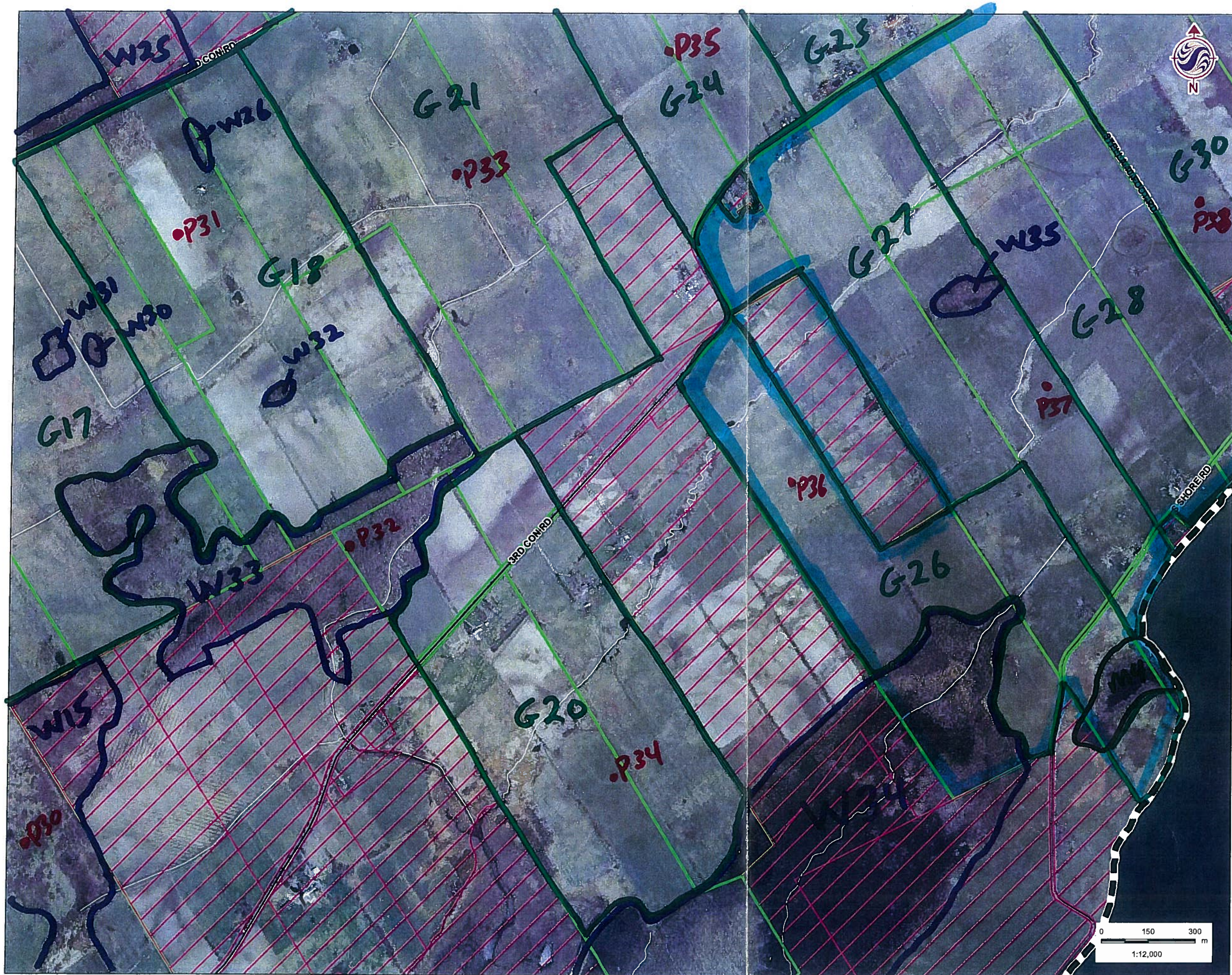
④ NOHA

⑤ EAKI

⑥ UPSA

⑦ WIFL

⑧ BAOR



Legend

- Study Area
- Road
- Watercourse
- Amphibian Station
- Property Status**
- Optioned
- Not Optioned

wooded area along ditch

small woods



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

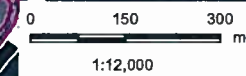
Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 6

Title

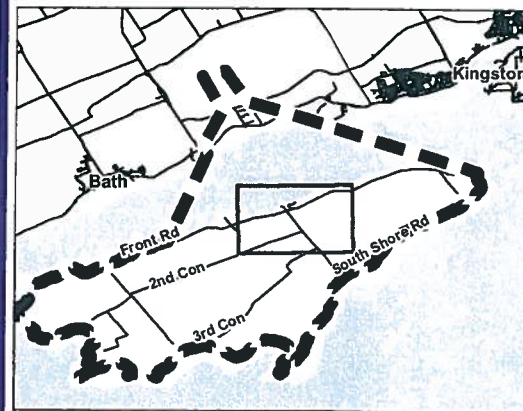
FIELD MAPBOOK





Legend

- Study Area
- Road
- Watercourse
- Amphibian Station
- Property Status**
- Optioned
- Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

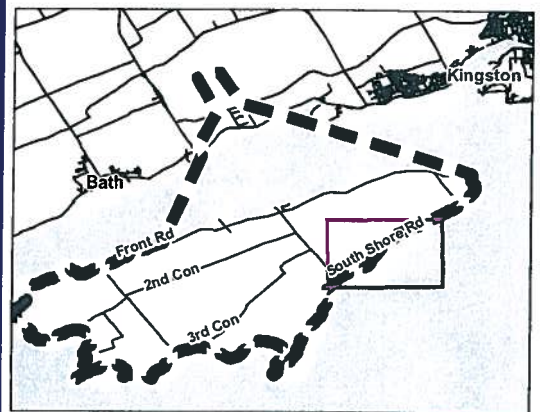
Tile 5

Title

FIELD MAPBOOK



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008

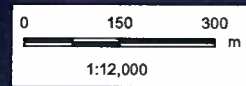


May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 8

Title
FIELD MAPBOOK





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160 960 595

Project Name: Amherst

Date June 7/2011

Field Personnel: Pete Read

Weather Conditions:	Temp: <u>13</u>	Wind: <u>1</u>	Cloud: <u>40%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
---------------------	-----------------	----------------	-------------------	---------------	------------------------------

GPS #: T_1

Station: 38

Habitat: Forest Swamp Marsh Hay Pasture Crop hedgerow

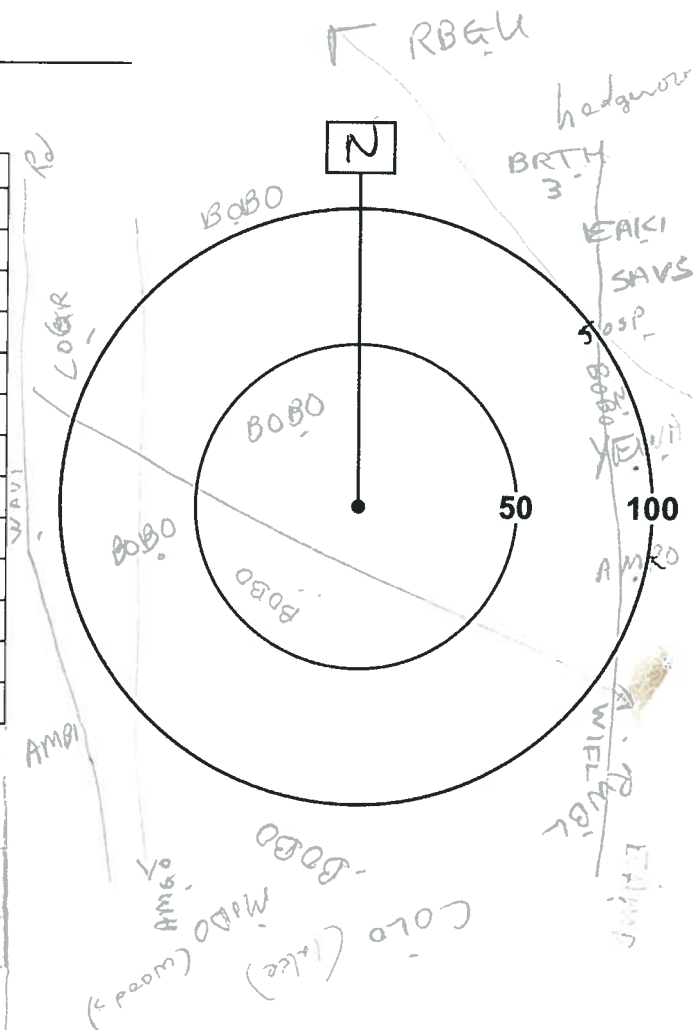
UTM: 365 609 4889 797 #257

Start Time: 5:15

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RBGU				1	A
BOBO	2	3	2		A
BRTN			3		A
EAKI			1		A
SAYS			1		A
SOSP			1		A
YEWA		1			A
AMRO		1			A
WAVI			1		A
AMGO				1	A
MODO			1		A
COLO			1		O
RWBL			1		A

*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

EAME			1		A
WIFL			1		A
COGR			1		A
AMBI			1		A



Quality Control: This form is complete () & legible ()

Signature: Pete Read
(Field Personnel)

Signature: Katrina
(Project Manager)

Page 1 of 3

T-15 C 70% W 1-5 PBT-0

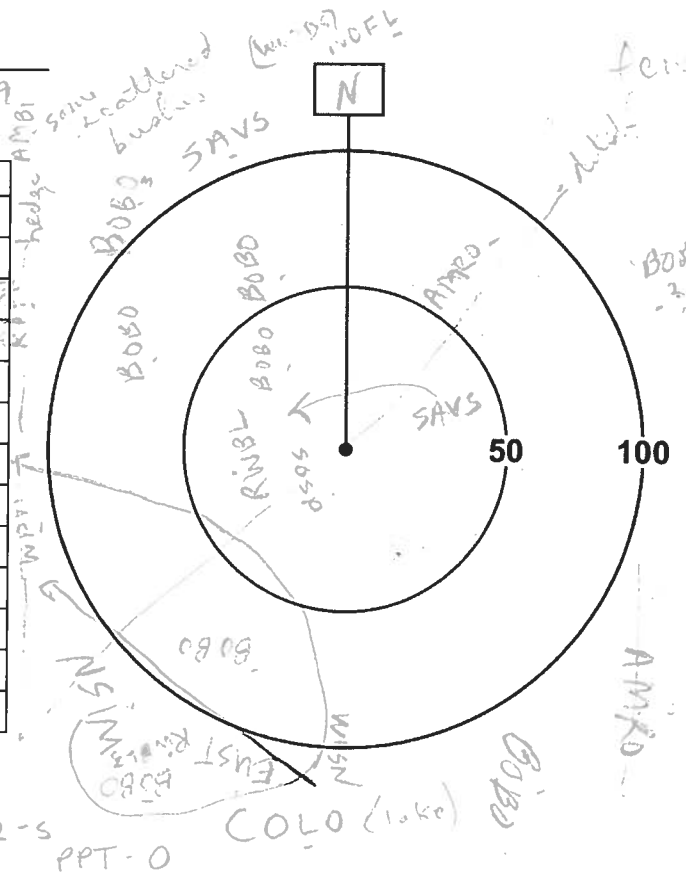
Station: 37

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 365051n 4889243 #259

Start Time: 6:35

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
NOFL			1		A
SAVS	1		1		A/B
BOBO	1	3	7		A/O
RWBL	1		1		A
RIPH			1		O
WAVI			1		A
WISN				1	A
COLO			1		O
EUST				1	A
AMRO			1		A
SOSP	1	1			A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

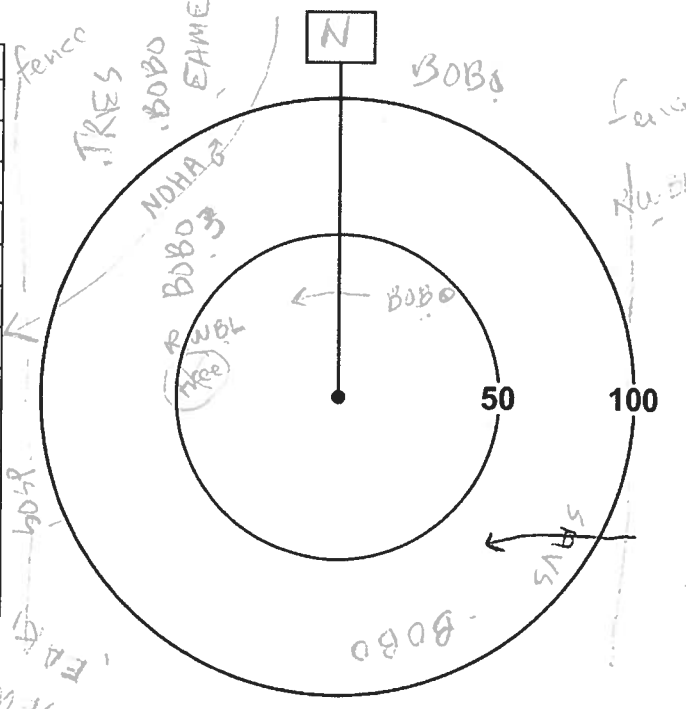
Station: 36

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 364329 4888888 #361

Start Time: 8:50

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
TRES				1	A
BOBO	1	4	2		A
EAME			1		A
EAKI			1		A
YEW			1		A
SOSP			1		A
SAVS		1			A
RWBL		1	1		A
NOMA				1	A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)
 Signature: P. Read
 (Field Personnel)

Signature: [Handwritten Signature]
 (Project Manager)



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type.)

Project Number: 160 960 595
 Date: June 7/2011

Project Name: Amherst
 Field Personnel: P. Read

Weather Conditions:	TEMP (°C): <u>13</u>	WIND: <u>1</u>	CLOUD: <u>40%</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
----------------------------	-------------------------	-------------------	----------------------	------------------	-----------------------------------

Feature No.: G-30 Habitat Type: Grassland Time Start: ① 5:00 Time End: 5:35

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

② 5:45 - 5:50
 ③ 6:00 - 6:05
 ④ 9:35 - 9:40
 ⑤ 10:44 - 10:49

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡ <u>Answer A</u>	X	Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	D	Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	CF
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	P
Killdeer	DD	Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper	P	Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 16

Quality Control: This form is complete & legible

Signature: P. Read
 (Field Personnel)

Signature: Keri
 (Project Manager)

+ unnamed woods immediately to west

Feature No.: W-42 Habitat Type: Woods Time Start: 5:35 Time End: 5:45

Record location of all significant species on site map. -scrubby but some large trees

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	3	Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	2	Am. Robin		No. Cardinal	S
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	3	Br. Thrasher †	3	Bobolink †	S
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	H
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	1	Baltimore Oriole †	S
Am. Woodcock	H	Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 16

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible

Signature: Kerhi S

(Project Manager)

REV: 2011-05-27 / FORM 031

June 7

Feature No.: W-41 Habitat Type: Woods Time Start: 5:50 Time End: 6:00

Record location of all significant species on site map. - scrubby + few tall trees
- openish

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 16

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible

Signature: Karin
(Project Manager)

Feature No.: W-40 Habitat Type: Woodland Time Start: ^① 5:00 Time End: 5:08
^② 6:00 6:05

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.	H	Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 16

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: Kurtin S.

(Project Manager)

REV: 2011-05-27 / FORM 031

stelia

G 30, W 38, W

3rd
conc

Unnamed
Woods

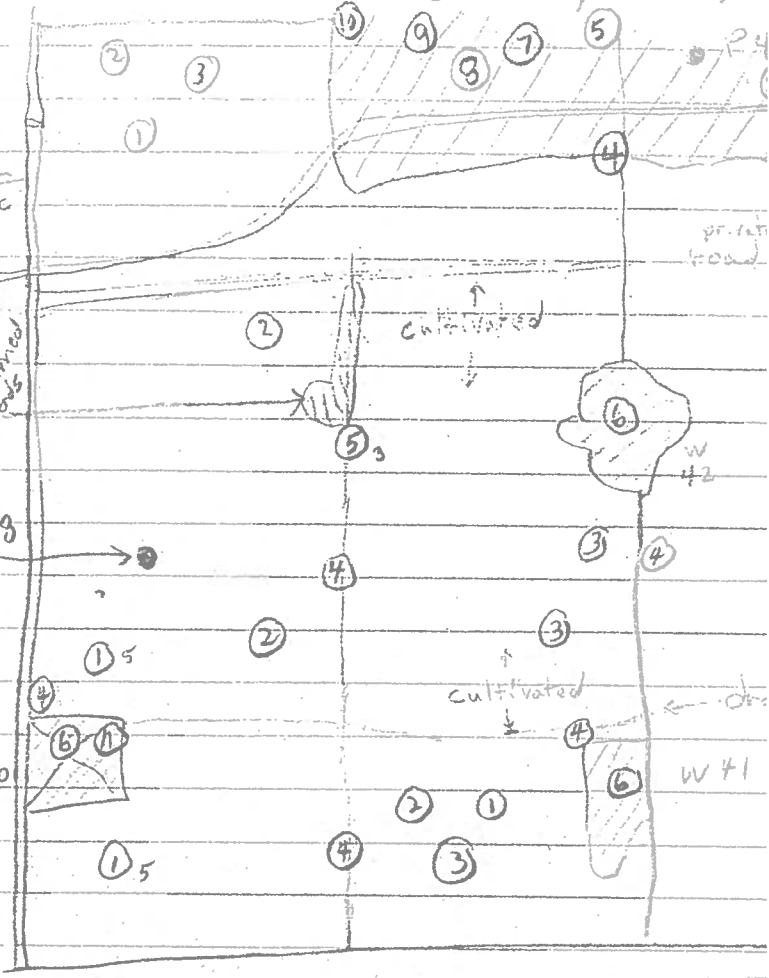
P 39

W 40

pr. lat
road

W 42

W 41



① BOBO

② EAME

③ SAVS

④ WIFL

⑤ BRTN

⑥ EWPE

⑦ BAOR

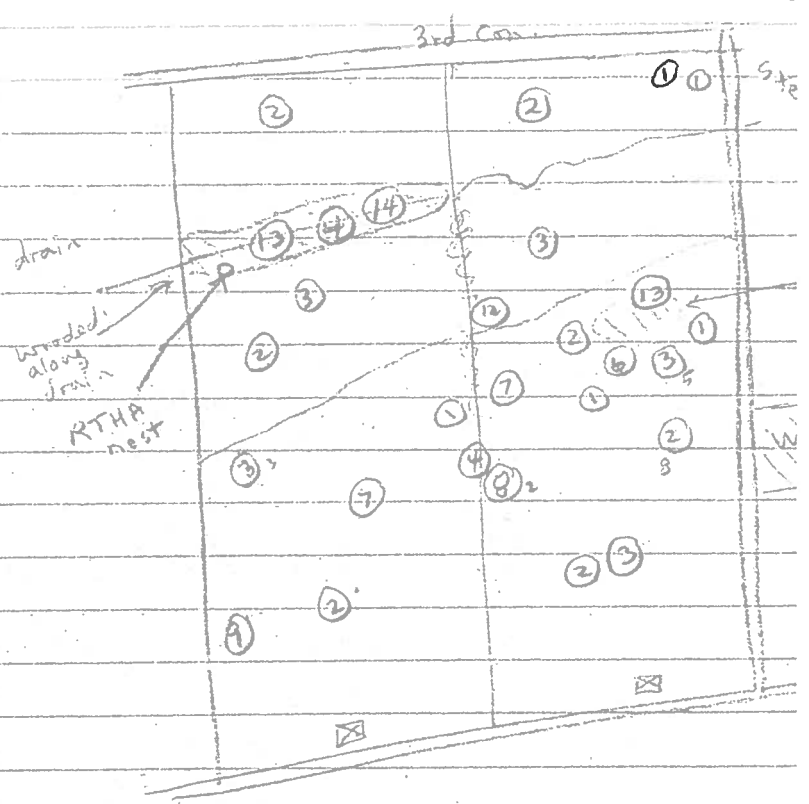
⑧ NOFL

⑨ WOTH

⑩ BLCU

⑪ EAKI

Gr 28, includes in
unnamed
along



- ① EAME
- ② BOBO
- ③ SAVS
- ④ WIFL
- ⑥ EAKI
- ⑦ GRSP
- ⑧ UPSA
- ⑨ NOHA
- ⑫ RBGR
- ⑬ BAOR
- ⑭ EWPE

Jun 7

Feature No.: G.28 Habitat Type: Grassland Time Start: 6:05 Time End: 6:25

Record location of all significant species on site map. * some hedgerow
 ** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant	S	Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	S
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡	H	No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †	D	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	CF
Sora		Gr. Crested Fly.		Cedar Waxwing	H	Ea. Meadowlark †	P
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	P	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 16

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin
 (Project Manager)

Feature No.: G 27 Habitat Type: Grassland Time Start: 6:30 Time End: 6:50
7:00 7:20

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant	S	Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove	H	Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

Rock Pigeon →

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 16

Signature: P. Read

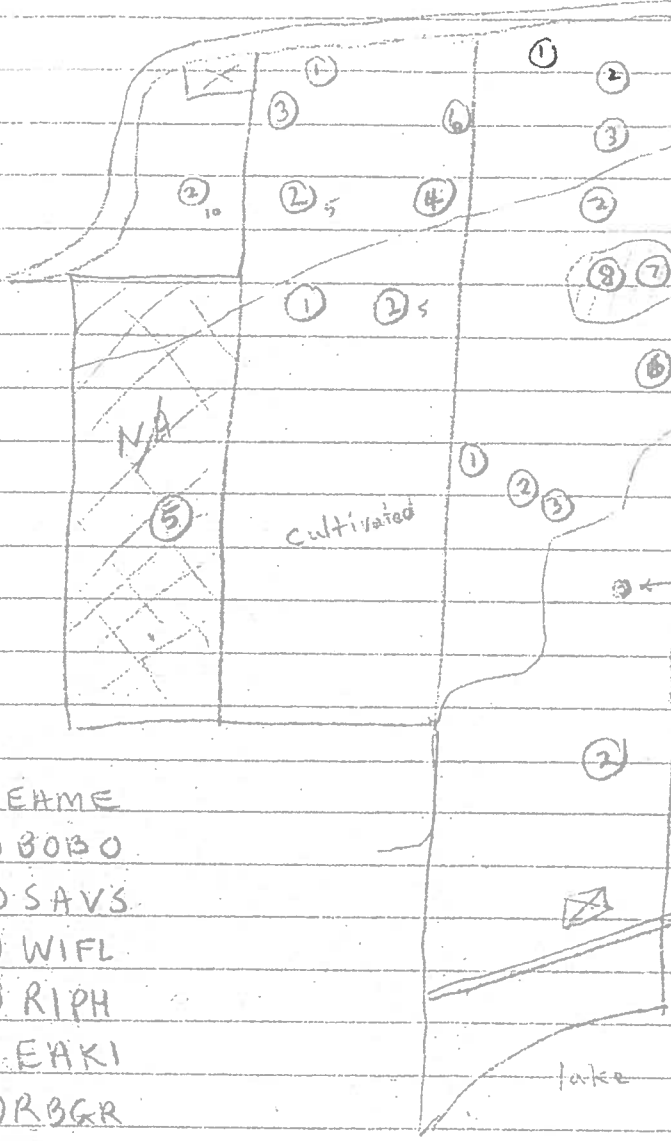
(Field Personnel)

Quality Control: This form is complete & legible

Signature: Karin S

(Project Manager)

REV: 2011-05-27 / FORM 031



- ① EAME
- ② BOBO
- ③ SAVS
- ④ WIFL
- ⑤ RIPH
- ⑥ EAKI
- ⑦ RBGR
- ⑧ EWPE

June 7

Feature No.: W-35 Habitat Type: Woods Time Start: 6:50 Time End: 7:00

Record location of all significant species on site map. - some larger trees
 ** Endangered, Threatened or Special Concern - some smaller
 † Partners In Flight
 ‡ Area Sensitive Species - dry upland forest + wet areas.

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †	N	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 10 of 16

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin R.
 (Project Manager)

WS1

Feature-No.: unnamed Habitat Type: Woods Time Start: 7:20 Time End: 7:35

Record location of all significant species on site map. -along N. ditch from G-27 boarder eastward

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Table with 7 columns: Species, BE*, Species, BE*, Species, BE*, BE*. Lists various bird species and their breeding evidence status.

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 11 of 16

Signature: P. Read (Field Personnel)

Quality Control: This form is complete [] & legible []

Signature: [Handwritten Signature] (Project Manager)

June 7

Feature No.: G-26 Habitat Type: Grassland Time Start: ① 8:30 Time End: 9:15
 ② 9:25 9:30

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	20 H	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	AE	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 12 of 16

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Katrina
 (Project Manager)

Feature No.:

M4

Habitat Type:

Marsh

Time Start:

① 7:49

Time End:

8:30

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

+ ②

5:00

→

5:45

June 11

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	H	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard	FY	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡	offshore x	Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡	offshore x	Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †	flyover x	Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren	5*	Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	lots D
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	X
Spot. Sandpiper	along lake H	Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	A	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	offshore/over x	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡		Common Merg 10† x	off sho
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡		Common Moorhen 1	P

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Mute Swan P
Green-winged Teal H

② new species for June 11

② Ruddy Duck H

Pg. 13 of 16

Signature:

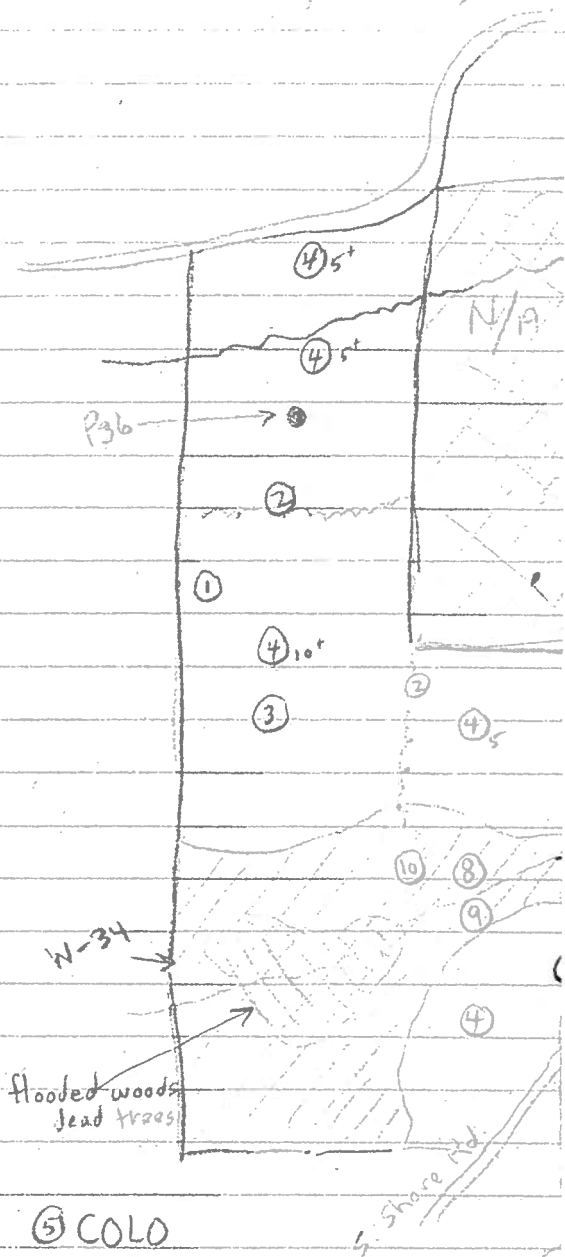
(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Katrina

(Project Manager)



- | | | |
|--------|--------|------------|
| ① FAKI | ⑤ COLO | |
| ② WIFL | ⑥ DCCO | |
| ③ SAVS | ⑦ BEKI | ⑩ NDFL M-4 |
| ④ BOBO | ⑧ BAOR | |
| | ⑨ EWPE | |

June

Feature No.: W-34 Habitat Type: Woods Time Start: 9:15 Time End: 9:28

Record location of all significant species on site map.

-drowned" section
of dead trees
-standing water

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	H	Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.	S	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	H	Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	AE	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 15 of 16

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible .

Signature: Kurti
(Project Manager)

Feature No.: W-38 Habitat Type: Woods Time Start: 9:40 Time End: 9:44

Record location of all significant species on site map. *- wet swampy - some drier areas at edge*

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †	S	Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	H
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	2	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	H	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock	2	Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 16 of 16

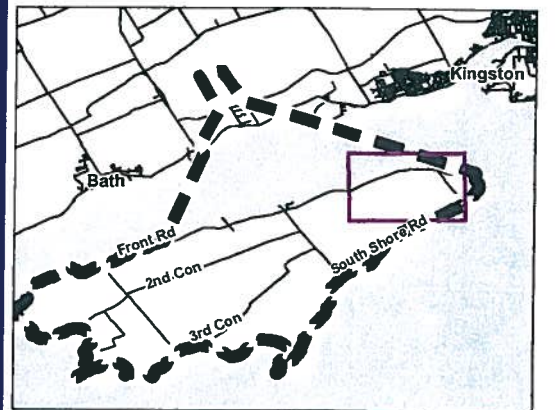
Signature: P Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin
 (Project Manager)



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

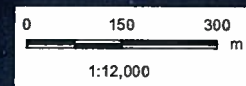
May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 9

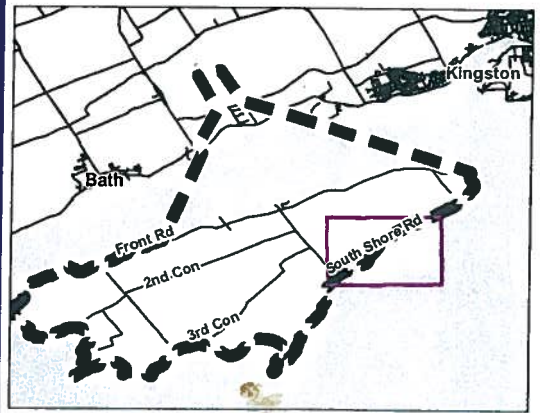
Title
FIELD MAPBOOK





Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

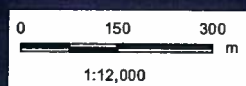
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 8

Title

FIELD MAPBOOK





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160 960 595

Project Name: Amherst

Date June 8 / 2011

Field Personnel: Pete Read

Weather Conditions:	Temp: <u>14</u>	Wind: <u>2 S</u>	Cloud: <u>light fog</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
----------------------------	-----------------	------------------	-------------------------	---------------	------------------------------

Vis > 300 m

GPS #: T 1

Station: P 54

some bushes

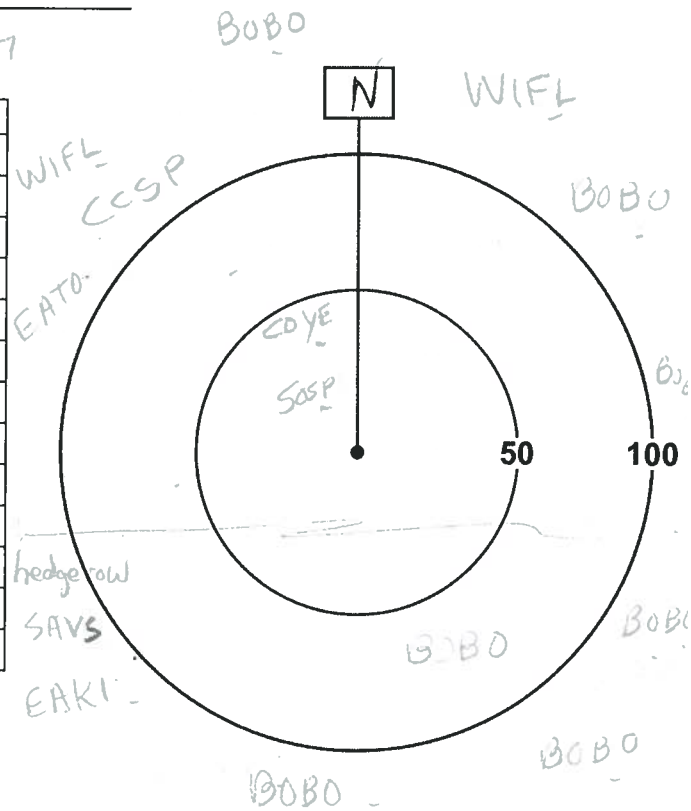
Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: 367 828 489 1868

Start Time: 5:30

267

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
WIFL			2		A
CCSP			1		A
EATO			1		A
SAVS			1		A
EAKI			1		A
BOBO		1	6		A/O
SOSP	1				A
COYE	1				A/O
					A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)

Signature: P. Read
(Field Personnel)

Signature: Kyrin Sn
(Project Manager)

T-16 W-2 S C-mist
O above

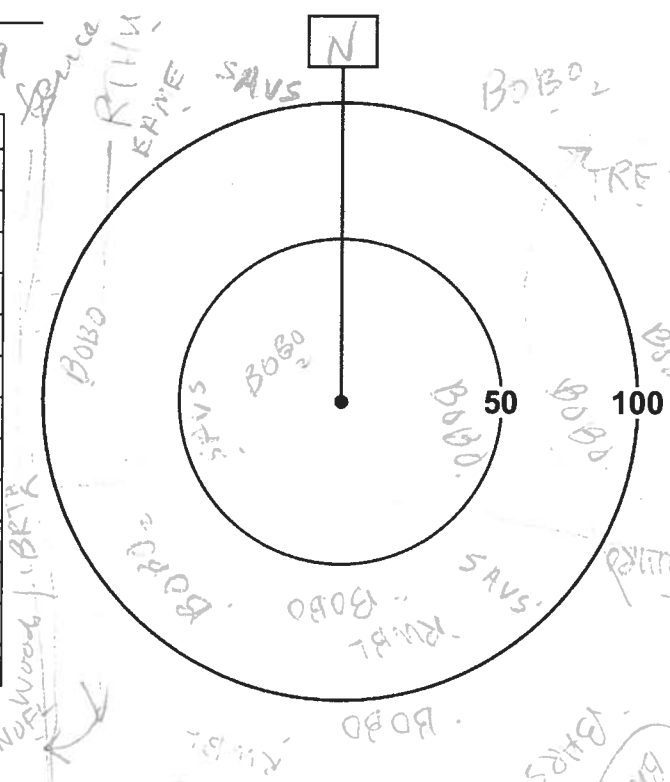
Station: 48

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 366137 4889717 #269

Start Time: 6:50

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RTHU				1	A
EAME			1		A
SAVS	1	1	1		A/o
BOBO	3	5	4		A/o
RWBL		1	1		A
COLO			1		O
AMRO			1		A
NOFL			1		A
BRTH			1		A
BARB			1		A
TRES			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

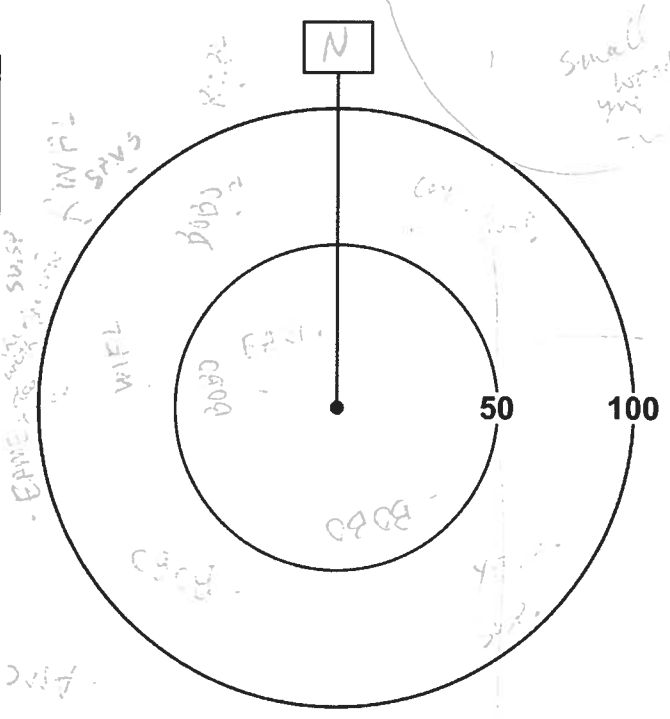
Station: 49

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 366295 4890363 #27

Start Time: 7:30

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RWBL			2		A
SAVS			1		A
SWSP			1		A/o
EAME			1		A
AMCR			1		A
BOBO	2	3	4		A
EPKI	1				A
WIFL		1			A
YEMA		1			A
SOSP		2			A
COYE		1			A/o



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)
Signature: _____
(Field Personnel)

Signature: Karin
(Project Manager)

June 8

T-17 C-0 W-3.5

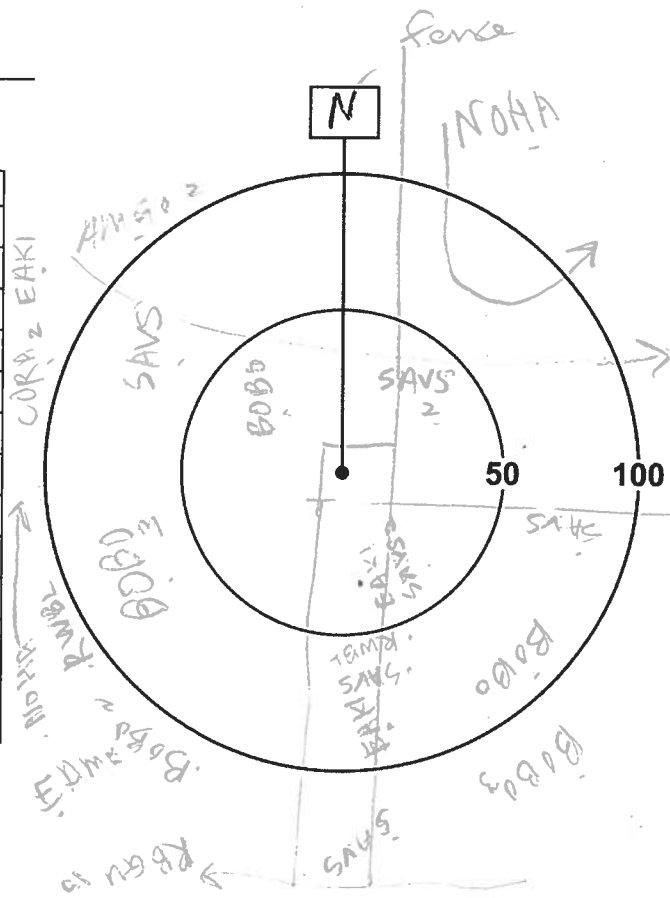
Station: 51

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 367142 4890921 #273

Start Time: 8:57

Species	<50 m	50-100 m	>100m	Flyovers	Height*
AMGO				2	A
NOHA				2	A
CORA			2		A
EAKI	1	1	1		A
FAME			1		A
RWBL		1	1		A
BOBO	1	4	5		A/2
SAVS	4	3	1		A/10
RBGU			10		A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

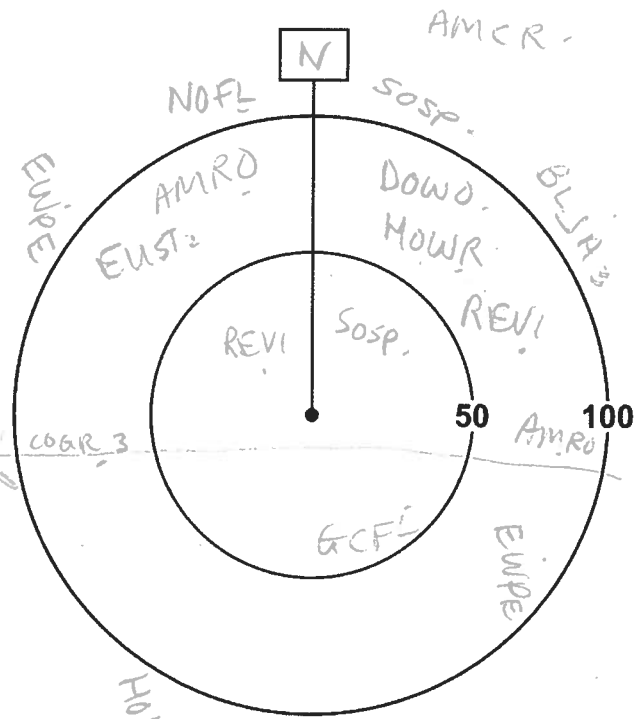
Station: 50 closed canopy big trees T-17

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 366466 4391574 #275

Start Time: 9:30

Species	<50 m	50-100 m	>100m	Flyovers	Height*
NOFL			1		A
EWPE		1	1		A
AMRO		2			A
SOSP	1		1		A
BLJA			3		A
DOWO		1			A
HOWR		1	1		A
REVI	1	1			A
COGR				3	A
GCFE	1				A
AMCR			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep.

Quality Control: This form is complete () & legible ()

Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 160 960 595

Project Name: Amherst

Date: June 8/2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>14</u>	<u>2 3</u>	<u>light fog vis > 300m</u>	<u>0</u>	<u>0</u>

Feature No.: G-34 Habitat Type: Grassland Time Start: 5:00 Time End: 6:30

Record location of all significant species on site map. - some small bushes & trees in part

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	x	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant	S	Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	S
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡	P	No. Flicker †	x	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	P	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	x	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 9

Quality Control: This form is complete & legible

Signature: P. Read

Signature: [Signature]

(Field Personnel)

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W-43 Habitat Type: Woods Time Start: W 5:40 Time End: 5:50

Record location of all significant species on site map. brushy - west W
 ** Endangered, Threatened or Special Concern E 5:50
 † Partners In Flight 6:30
 ‡ Area Sensitive Species brushy - east E

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant	S	Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡	S	B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡	H	No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing	P	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

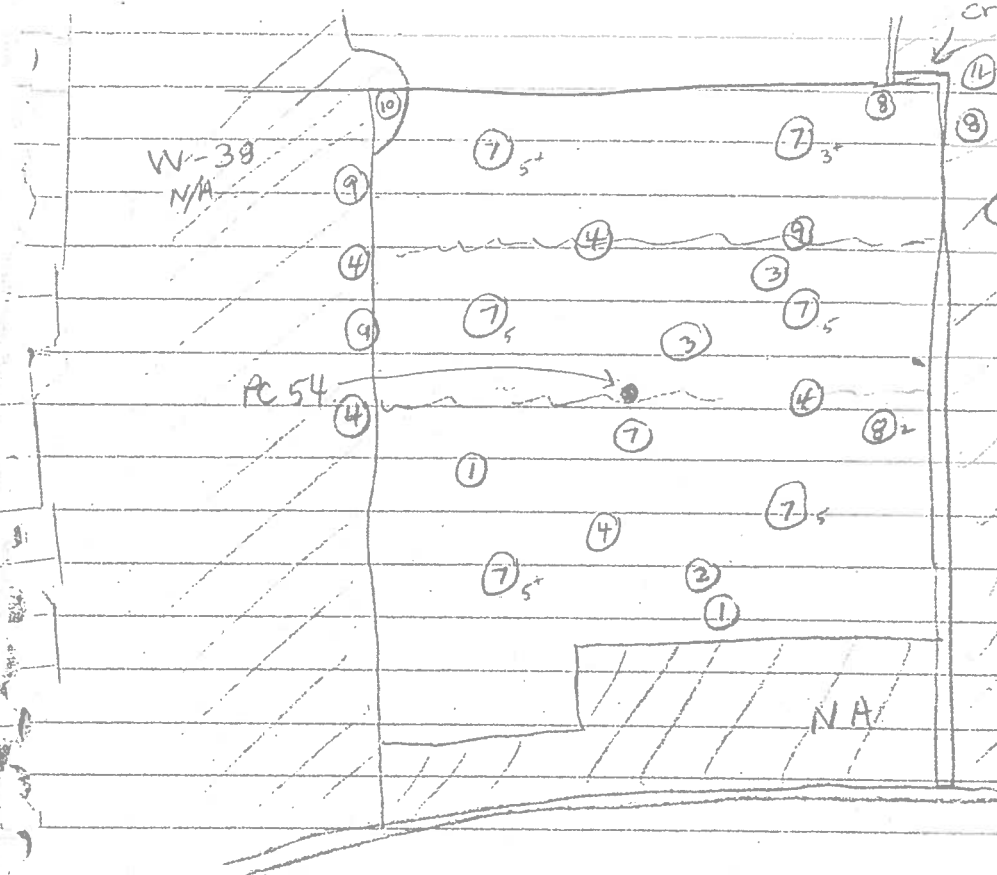
Pg. 2 of 9

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible .

Signature: Katrina
 (Project Manager)

G-34, W43 in part
W38 in part.



- ① UPSA
- ② NOHA
- ③ SAVS
- ④ WIFL
- ⑤ RIPH
- ⑦ BOBO
- ⑧ EAKI
- ⑨ EATO
- ⑩ YBSA
- ⑪ NOFL

June 8

Feature No.: G-31 Habitat Type: Grassland Time Start: 6:35 Time End: 7:45

Record location of all significant species on site map.

-some area hedgerow + brushy

8:05

8:35

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	X	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.	X	Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	N	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	P
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	N	Pine Wa. ‡			
Mourn. Dove	X	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 9

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible

Signature: [Handwritten Signature]

(Project Manager)

Feature No.: W-38 Habitat Type: Woods Time Start: 7:45 Time End: 8:05

Record location of all significant species on site map.

- brushy parts } diff. habitats
 - wet swampy }
 - larger trees }

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	S
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	P	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.	S	Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	N	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock	N	Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 9

Signature: _____

P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Karin

(Project Manager)

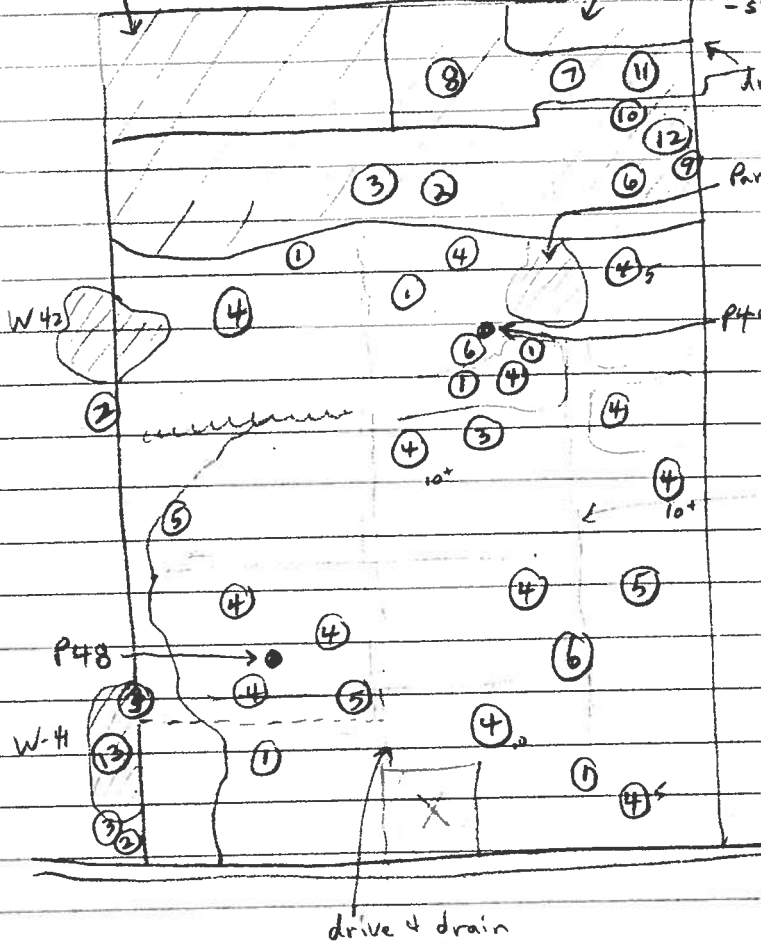
REV: 2011-05-27 / FORM 031

6 of 7

area covered on Day 9 June 6

G 31, W38

W38 - b - s



① SAVS

② BRTH

③ WIFL

④ BOBO

⑤ EAME

⑥ EAKI

⑦ BAOR

⑧ WOTH

⑨ EATO

⑩ EWPE

⑪ RBGR

⑫ AMRE

⑬ NOFL

June 8

Feature No.: G-32 Habitat Type: Grassland Time Start: 8:40 Time End: 9:26

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

9:49 10:17

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡	H	No. Flicker †	X	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	P
Killdeer	H	Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper	H	Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	S	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	X	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven	H	Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 9

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Kathie
 (Project Manager)

Feature No.: W-38 Habitat Type: Woodlands Time Start: 9:10 Time End: 9:26

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

1 - brushy to W
 2 - closed canopy N
 3 - brushy to E.

9:26
 9:49
 9:53
 10:09

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.	H	Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	N	Red-winged Bl.	H
Sora		Gr. Crested Fly.	S	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 8 of 9

Signature: _____

P. Read

(Field Personnel)

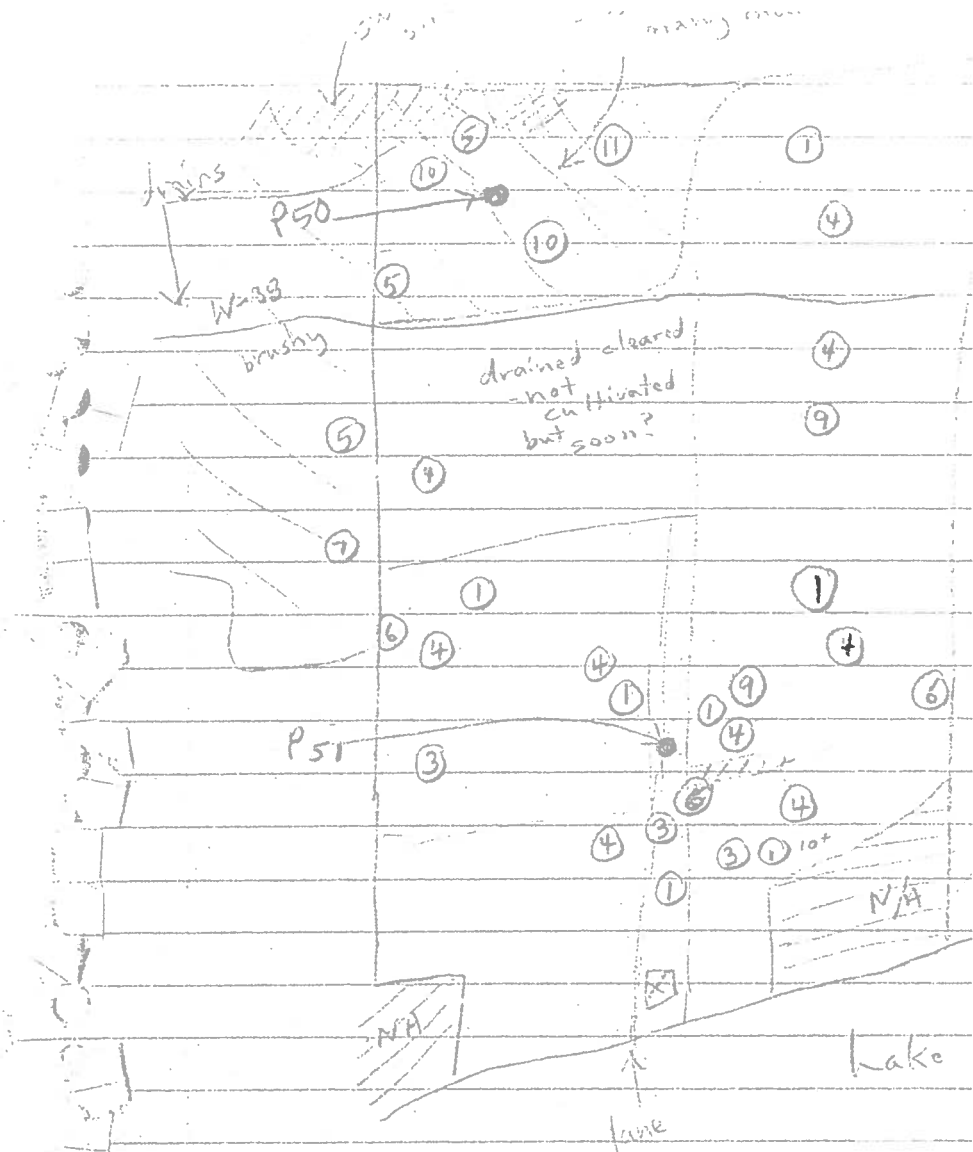
Quality Control: This form is complete & legible .

Signature: _____

Kurti K

(Project Manager)







REV: 2011-05-27 / FORM 031

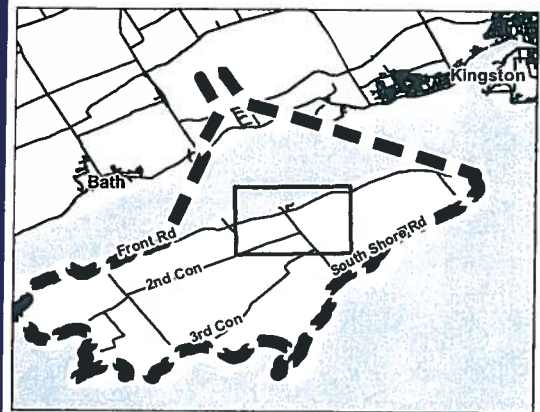


- ① BOBO
- ② UPSA
- ③ EAME
- ④ SAVS
- ⑤ NOFL
- ⑥ EAKI
- ⑦ WIFL
- ⑧ EATO
- ⑨ NOHA
- ⑩ EWPE
- ⑪ WOTH
- ⑫ BAOR



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optional
-  Not Optional



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

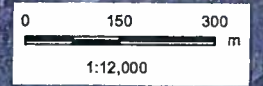
May 2011
160960595

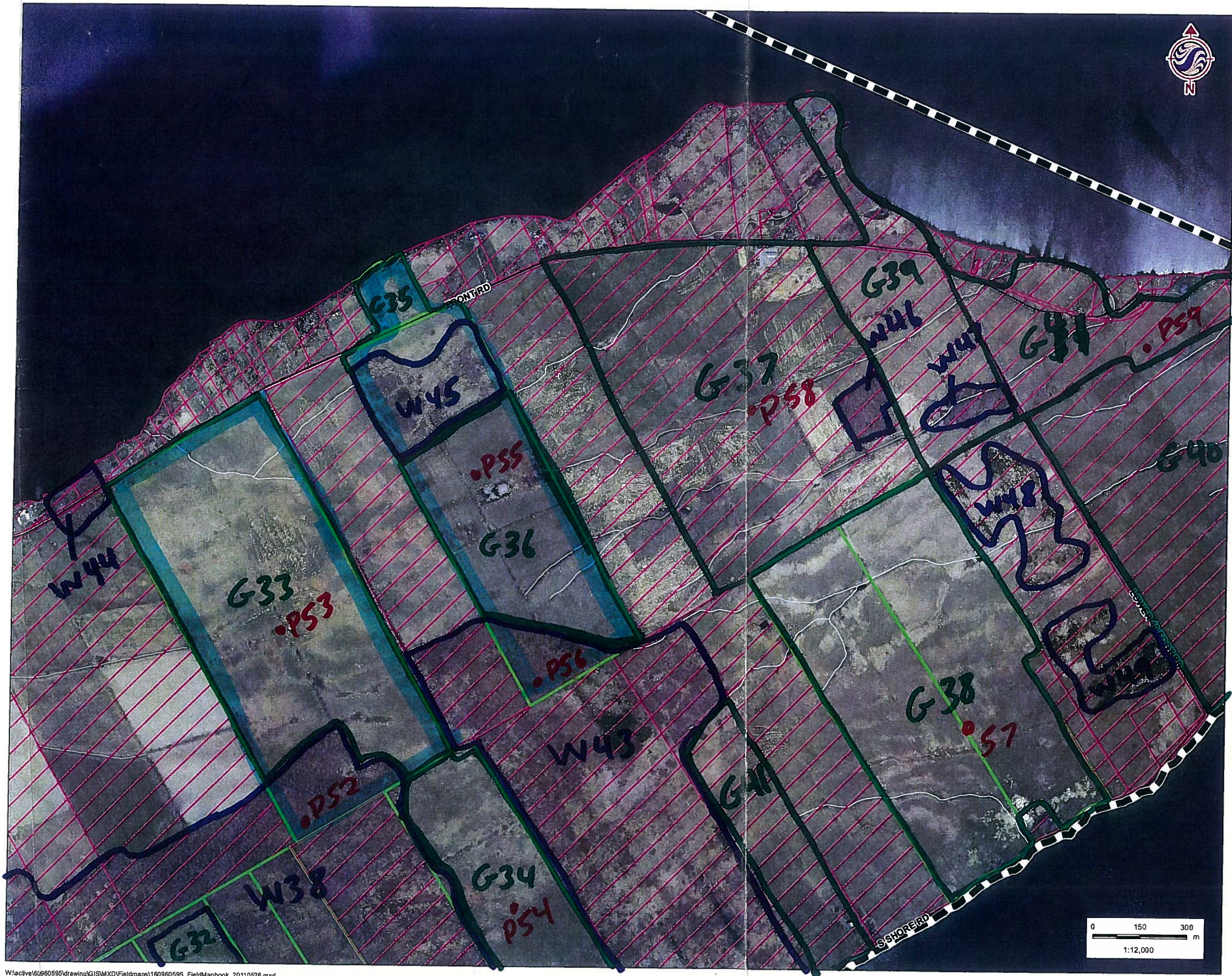
Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

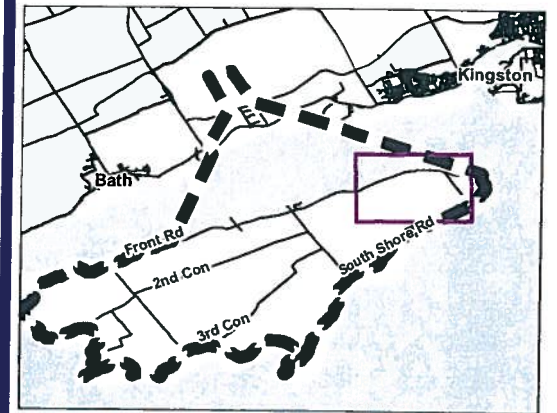
Figure No.
Tile 5

Title
FIELD MAPBOOK





- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
 - Property Status**
 - Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Client/Project
**WINDLECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT**

Figure No.
Tile 9

Title
FIELD MAPBOOK



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 160 960 595

Project Name: Amherst

Date: June 9/2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>15</u>	<u>2 sw</u>	<u><40</u>	<u>0</u>	<u>1 cm</u>

Feature No.: G 29 Habitat Type: Grassland Time Start: ^{out} 5:00 Time End: 5:30

Record location of all significant species on site map. *includes hedgerows ^{back} 6:10 and some wet spots 6:30

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	X	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡ <u>Flyover B</u>	X	Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron <u>Flyover A</u>	X	Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	D
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of

Quality Control: This form is complete & legible

Signature: P. Read
 (Field Personnel)

Signature: Kati SK
 (Project Manager)

Feature No.: W 38 (P+) Habitat Type: Woodland Time Start: 5:30 Time End: 6:10

Record location of all significant species on site map. - scrubby to more mature - swampy areas

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

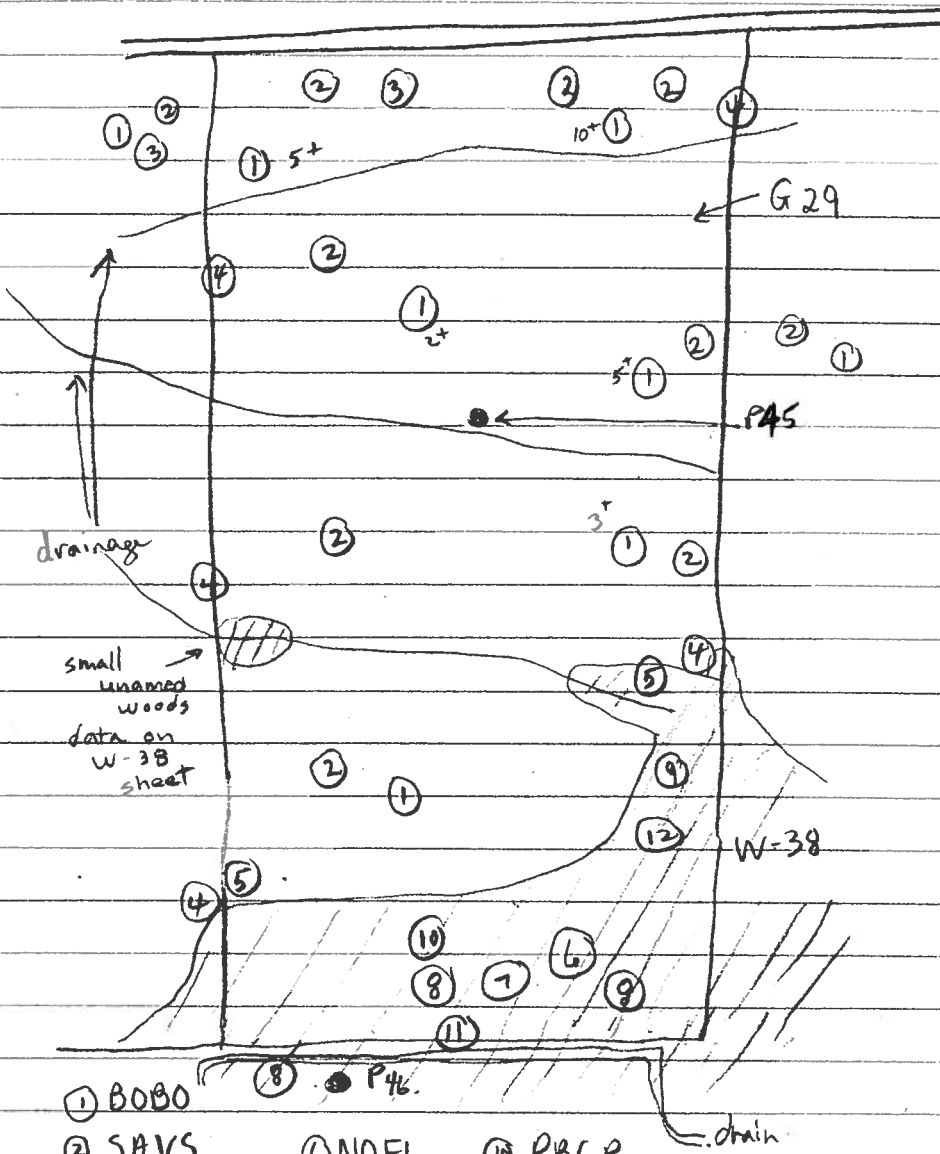
Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †	S	Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡	S	Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.	H	Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery	S	Song Sp.	S
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.	S	Gray Catbird	S	Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.	S	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 14

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: [Signature]
 (Project Manager)



- ① BOBO
- ② SAVS
- ③ EAME
- ④ EAKI
- ⑤ WIFL
- ⑥ NOFL
- ⑦ BAOR
- ⑧ EWPE
- ⑨ EATO
- ⑩ RBGR
- ⑪ BBCU
- ⑫ WIWR

June 9

Feature No.: W-44 Habitat Type: Woodland Time Start: 6:40 Time End: 6:45
10:15 10:25

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	S
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing	H	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 14

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Kate
 (Project Manager)

June 9

Feature No.: G-33 Habitat Type: Grassland Time Start: 6:48 Time End: 7:40

Record location of all significant species on site map. - hedgerows included ② 8:05 8:11

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡	H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk	H	Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing	H	Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven	H	Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 14

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Kathi S
(Project Manager)

GAA-CA

Conservation Authority Grasslands

June 9

Feature No.: CA Habitat Type: Grasslands Time Start: 6:50 Time End: 7:05

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	S
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 6 of 14

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible

Signature: Kathie
(Project Manager)

Feature No.: W-38 (pt) Habitat Type: Woodland Time Start: 7:40 Time End: 8:05

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡	P	B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk	A	Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.	S	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 14

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: Kurti Sun

(Project Manager)

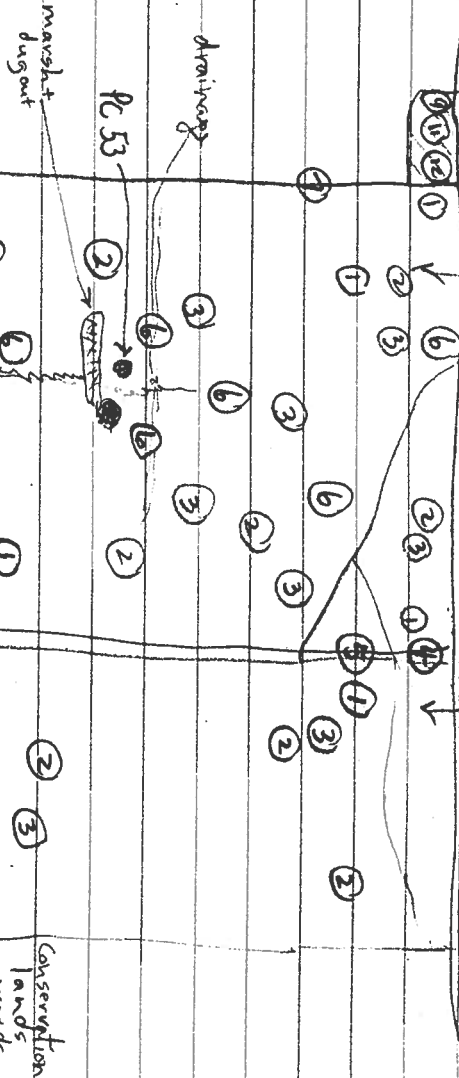
REV: 2011-05-27 / FORM 031

W-44

G-33

Conservation Authority
grass lands: CA

+ W44



PC 52
W-38
PC 53

- ① EHRME
- ② BOBO
- ③ SHVS
- ⑧ YBSA
- ⑨ BAOR
- ⑫ RBGR

N/S
dividing lane

W43

Conservation lands woods part of W43

June 9

Conservation Authority Lands

Feature No.: W-43 Habitat Type: Woodland Time Start: 8:10 Time End: 8:20

Record location of all significant species on site map. -brushy dry open canopy

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock	H	Red-eyed Vireo		Chestnut-s. Wa.	S	Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 14

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: [Signature]
(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

W-43 at south of G 36

Habitat Type:

Woodland

Time Start:

8:20

Time End:

Record location of all significant species on site map.

-part brushy
-part closed canopy large trees

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †	M	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	M	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 10 of 14

Signature:

P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Kobin S

(Project Manager)

REV: 2011-05-27 / FORM 031

June 9

Feature No.: G-36 Habitat Type: Grassland Time Start: 8:48 Time End: 9:27

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

with hedgerows
+ small marsh (M) (open water, cattails, sedges, phragmites)

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	X	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	S
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	DD
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	P
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	M S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl. M + elsewhere	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer M H		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe M S		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	X	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡		GWTE M H	
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 11 of 14

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: [Handwritten Signature]

(Project Manager)

REV: 2011-05-27 / FORM 031

June 9

Feature No.: W-45 Habitat Type: Woodlands Time Start: 9:27 Time End: 9:49

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

-brushy mostly
 -some tree patches
 -includes drain with marsh area (M)

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	S
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	CF	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock	H	Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.	H	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡		GIWTE M	H
Mourn. Dove		No. R. W. Swal.	P	Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 12 of 14

Signature: P Read

(Field Personnel)

Quality Control: This form is complete & legible

Signature: Karin Sun

(Project Manager)

REV: 2011-05-27 / FORM 031

June 9

Feature No.: G-35 Habitat Type: Grassland Time Start: 9:49 Time End: 10:06

Record location of all significant species on site map. - 2 sides of road
N side against lake front (some trees)

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

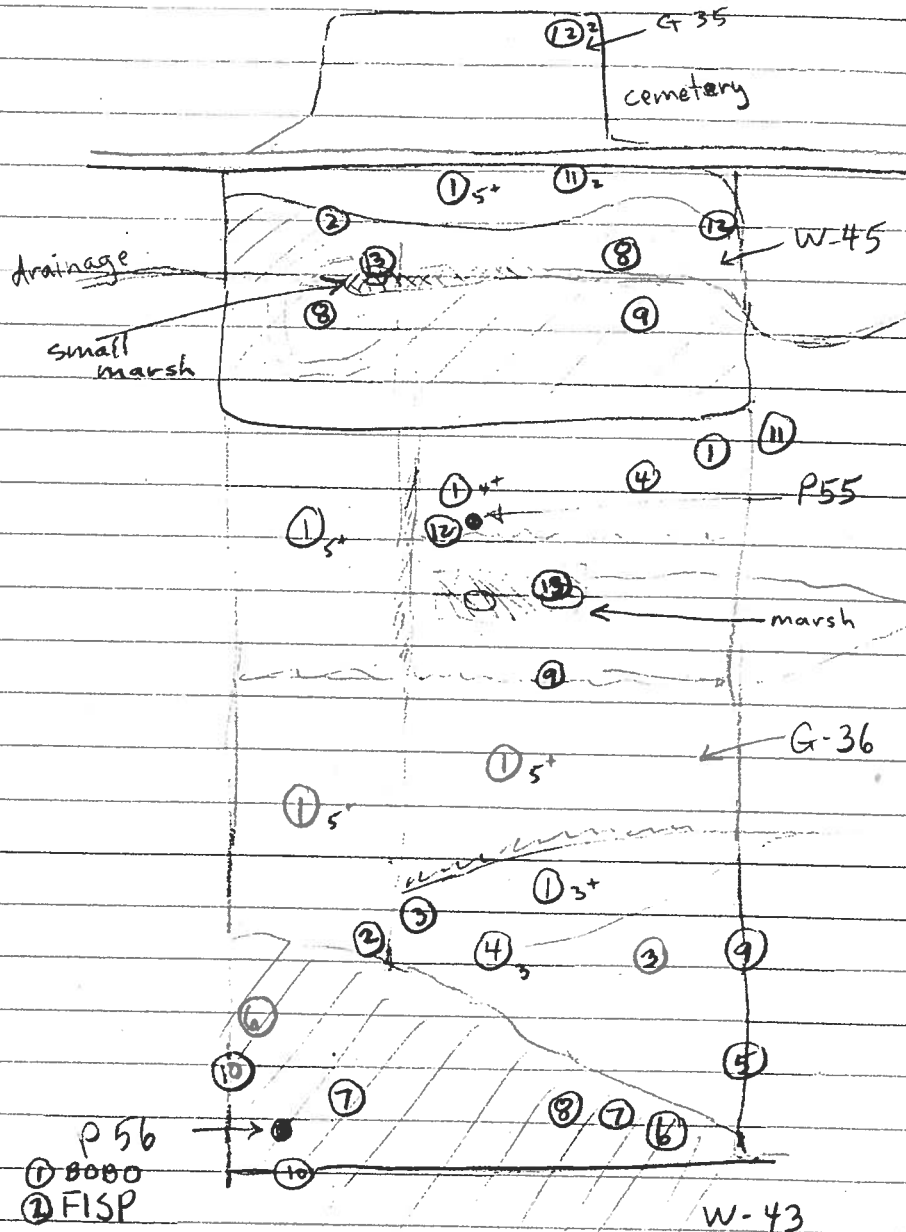
Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee ^{trees at lake}	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	H	Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	S
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	P
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.	H	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 13 of 14

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Katrin L
(Project Manager)









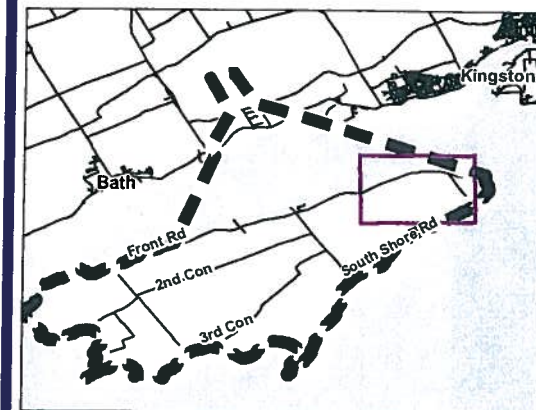
P 56
 1 BOBO
 2 FISP

- 3 GRSP 7 EWPE 11 EAME
- 4 SAYS 8 BAOR 12 EAKI
- 5 BRTH 9 WIFL 13 GWTE
- 6 NOFL 10 WOTH



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optional
-  Not Optional



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

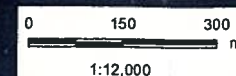
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 9

Title

FIELD MAPBOOK





Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 160 960 595

Project Name: Amherst

Date: June 10 / 2010

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>13</u>	<u>2 N</u>	<u>80%</u>	<u>0</u>	<u>.1 cm</u>

Feature No.: W-23 Habitat Type: Woodlands Time Start: 4:55 Time End: 5:10

Record location of all significant species on site map. - from roadway

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

* map see over

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	D	No. Cardinal	S
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	S	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	S	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 9

Quality Control: This form is complete & legible

Signature: P. Read

(Field Personnel)

Signature: Kathi R.

(Project Manager)

Feature No.:

W-22

Habitat Type:

Woodland

Time Start:

5:12

Time End:

5:35

-fairly closed canopy (1) ← June 10

Record location of all significant species on site map.

- includes area to west of W-22 (2) June 11 9:06 - 9:16 scrubby brush (w) if species only see/found there

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡ (2)	S
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat W	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee ‡ (2) E W	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo. (2)	H	Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. W	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	XS
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. † W	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † W	S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing (2) W	H	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. W	S
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. W	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa. W	S	Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

- ① EATD
- ② BRTH
- ③ RBGR
- ④ BAOR
- ⑤ WIFL
- ⑥ EHAI
- ⑦ AMRE



Pg. 2 of 9

Signature:

P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Kate S

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 160 960 595

Project Name: Amherst

Date: June 10/2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>13</u>	<u>2 N</u>	<u>80%</u>	<u>0</u>	<u><.1m</u>

Feature No.: G 37 Habitat Type: Grassland Time Start: ① 6:00 Time End: 6:37

Record location of all significant species on site map. - scattered bushes, trees, hedgerows
 ** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose <i>in fields</i>	X	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡ <i>flyover</i>	X	Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern <i>flyover</i>	X	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	D
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	FY	Red-winged Bl.	P
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer	D	Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡	P	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	H
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull <i>in fields</i>	X	Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	N
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	N	Pine Wa. ‡			
Mourn. Dove	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 9

Signature: P Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin
 (Project Manager)

Feature No.: G-38 Habitat Type: Grassland Time Start: ^① 6:37 Time End: 7:20

Record location of all significant species on site map. *ver few scattered bushes*
 ** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species
 ② June 11 9:25 → 9:57

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡ <i>flyby</i>	X	Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern <i>flyby</i>	X	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡	3 FY	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	1st D
Virginia Rail		Ea. Phoebe		European Starling	FY	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper ②	H	Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. ②	H
Upla. Sandpiper ‡	P	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull <i>in lower field</i>	X	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow ②	N
Common Tern		Purple Mart.	HI	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	HI	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal. ②	H	Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 9
 Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible .
 Signature: Karin
 (Project Manager)

June 10

Feature No.: W-48 Habitat Type: Woodlands Time Start: 7:09 Time End: 7:15

Record location of all significant species on site map. -plantation mostly evergreens -walking past

** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 9

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Karin
(Project Manager)

Feature No.: W-47 Habitat Type: Woodland Time Start: ① 7:26 Time End: 7:32
② 7:55 8:05

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

-scrubby to more tall trees
 -walked by

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	A	Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 6 of 9

Signature: _____

P. Road

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Kurt S

(Project Manager)

REV: 2011-05-27 / FORM 031

June 10

Feature No.: W-46 Habitat Type: Woodland Time Start: 7:30 Time End: 7:37

Record location of all significant species on site map. -mature (closed canopy)

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl *		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	S	Red-winged Bl.	
Sora		Gr. Crested Fly.	S	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	H
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* Mark Ritchie (owner) had seen 2 there first week June.

Pg. 7 of 9

Signature: P. Read
(Field Personnel)

Quality Control: This form is complete & legible
Signature: [Handwritten Signature]
(Project Manager)

Feature No.: G-39 Habitat Type: Grassland Time Start: 7:37 Time End: 8:00

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

June 11 (3) 10:00 - 10:15

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	fy	Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird † (3)	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	P	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	P	Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 8 of 9

Signature: _____

P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

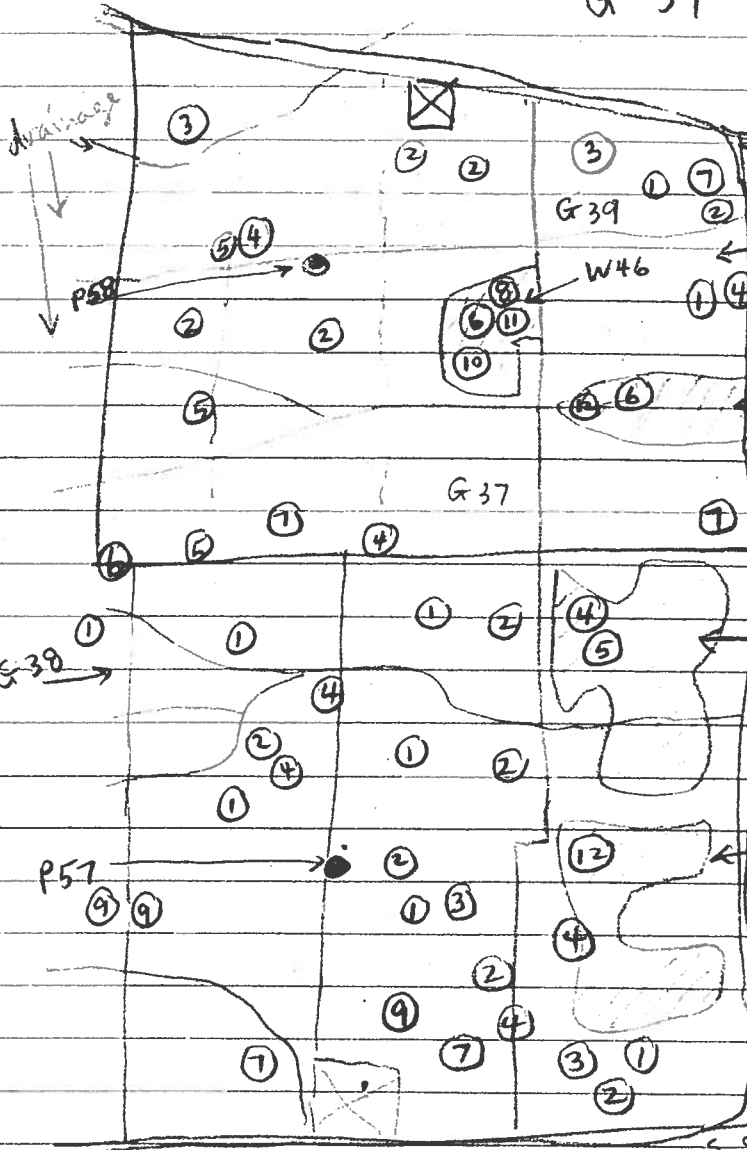
Kenneth L.

(Project Manager)

REV: 2011-05-27 / FORM 031

W-47, W

G-39



- | | | |
|--------|--------|--------|
| ① BOBO | ⑥ EWPE | ⑩ RBGR |
| ② SASP | ⑦ UPSA | ⑫ WIFL |
| ③ EAME | ⑧ NOFL | |
| ④ EAKI | ⑨ NOHA | |
| ⑤ BRTH | ⑩ BHOR | |

June 9

T-18 C - <30% W-1 sw PPT-0

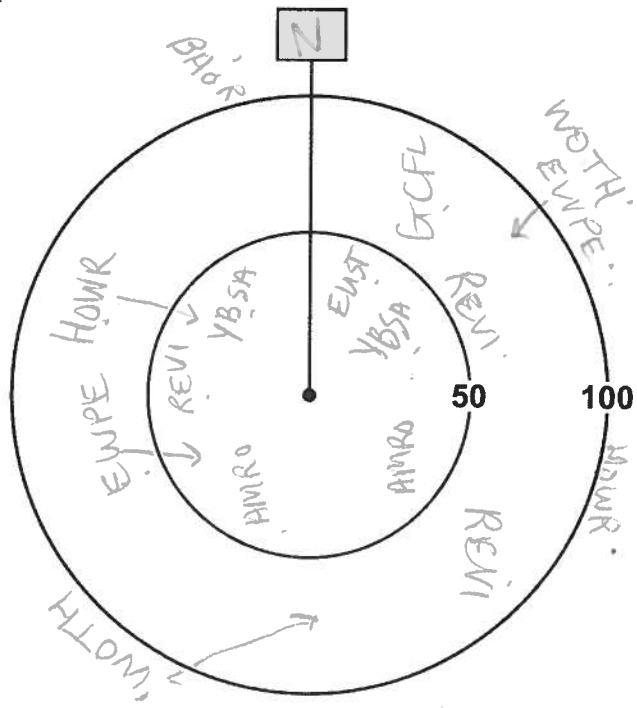
Station: 52

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 367116 4892174 #282

Start Time: 7:45

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BAOR			1		A
WOTH		1	1		A
EWPE	1	1			A
HOWR		1	1		A
YBSA	2				A
EUST	1				A
REVI	1	2			A
GCFL		1			A
AMRO	1				A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

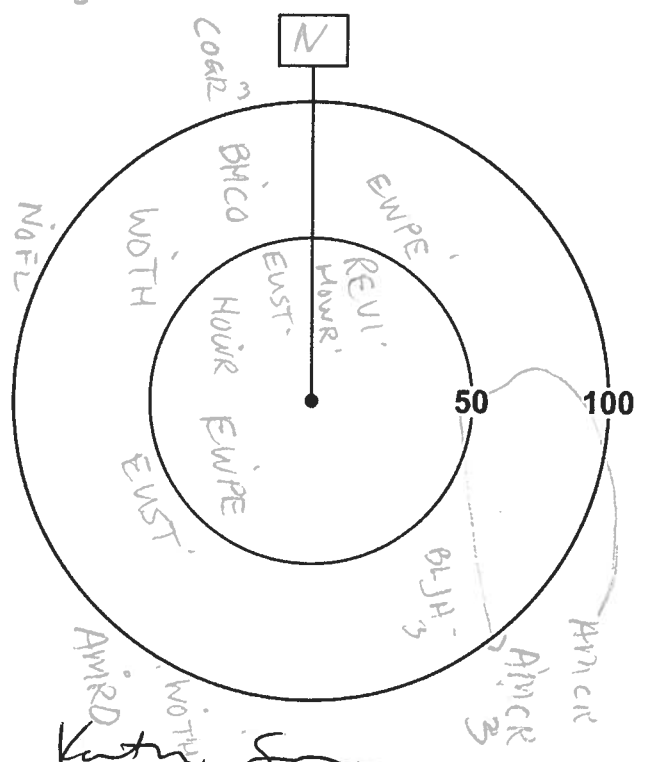
Station: 56

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 367816 4892589 #283

Start Time: 8:25

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
COGR			3		A/D
BHCO		1			A
WOTH		1	1		A
NOFL			1		A
EWPE	1	1			A
HOWR	2				A
EUST	1	1			A
BLJA		3			A
AMCR	1		3		A
AMRO			1		A
REVI	1				A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep.

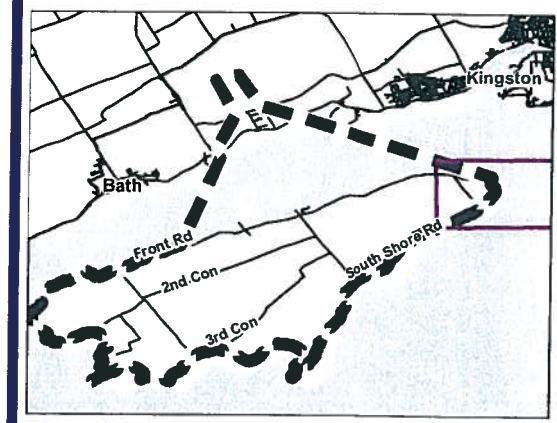
Quality Control: This form is complete () & legible ()

Signature: P. Road (Field Personnel)

Signature: Kurt... (Project Manager)



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
 - Property Status**
 - Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



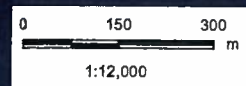
Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 10

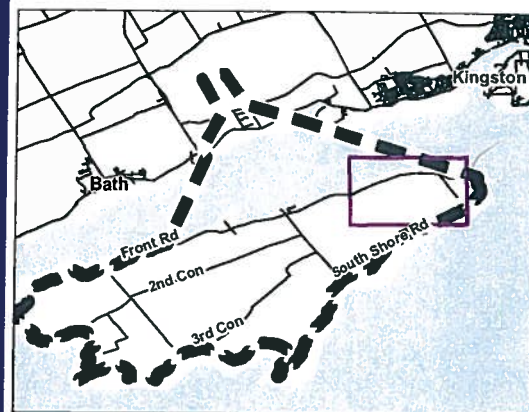
Title
FIELD MAPBOOK





Legend

- Study Area
- Road
- Watercourse
- Amphibian Station
- Property Status**
- Optioned
- Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

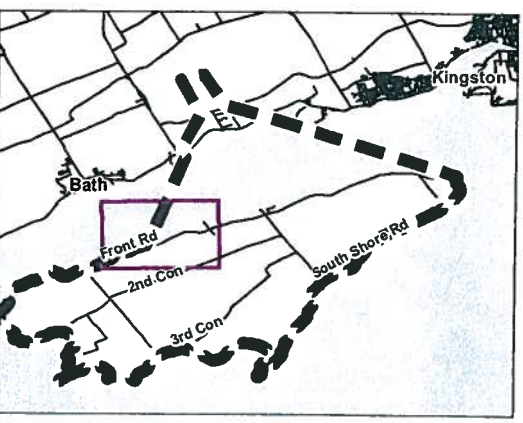
Tile 9

Title

FIELD MAPBOOK



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 4

Title
FIELD MAPBOOK



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160 960 595

Project Name: Amherst

Date June 10/2011

Field Personnel: Pete Read

Weather Conditions:	Temp: <u>16</u>	Wind: <u>2-3 NE</u>	Cloud: <u>100%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u><.1cm</u>
----------------------------	-----------------	---------------------	--------------------	---------------	-------------------------------------

GPS #: T-1

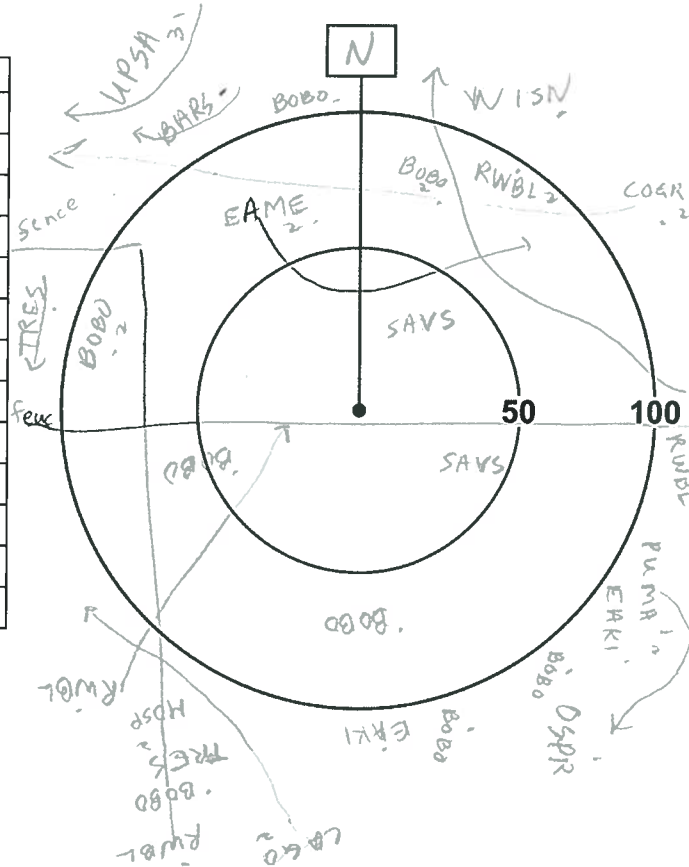
Station: P59

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 369845 4893620 #291

Start Time: 8:30

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
UPSA				3	A
BARS				1	A
BOBO	1	5	4		A
EAME	2				A
TRES			2	1	A
WISN				1	A
COGR				2	A
SAVS	2				A/B
RWBL	1	2	1	1	A
EAKI			2		A
OSPR			1		A
PUMA				2	A
HOSP			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓).

Signature: P. Read
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 3

T-19 C

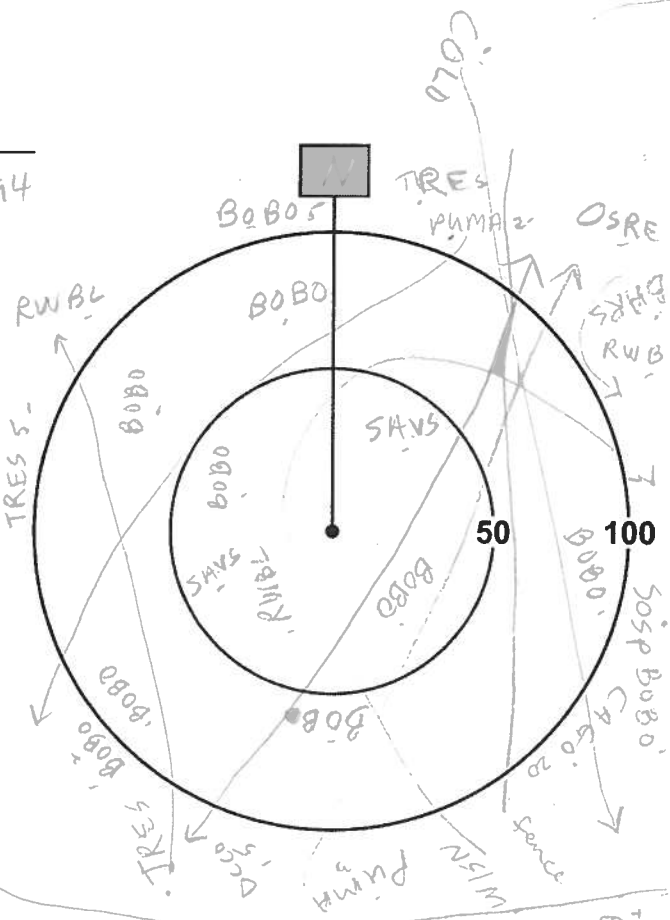
Station: 60

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 370157 4892939 #294

Start Time: 9:20

Species	<50 m	50-100 m	>100m	Flyovers	Height*
COLO				1	A
TRES			6	1	A
OSPR			1		A
PUMA				5	A
RWBL	1		2		A
DCCO				5	A
SAVS	2				A/O
SOSP			1		A
BARS				1	A
WISN				1	A
BOBO	2	5	8		A
CAGO			20		O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

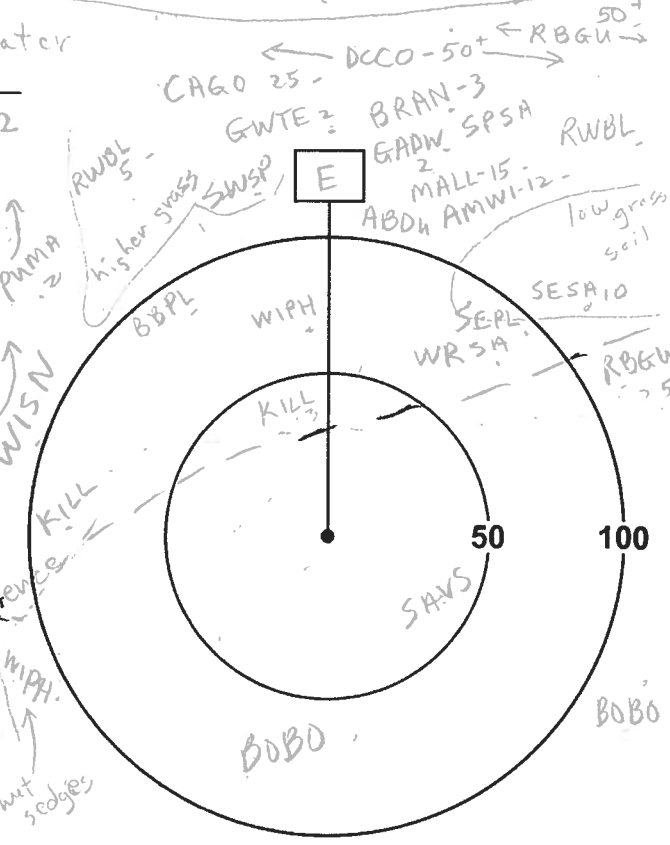
Station: 61 grassy marsh with some open water

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 370354 4893108 #302

Start Time: 9:50

Species	<50 m	50-100 m	>100m	Flyovers	Height*
CAGO			25		O
GWTE			2		O
BRAN			3		O
GADW			2		O
MALL			15		O
SWSP			1		O
RWBL			6		A
PUMA				2	A
WISN				1	A
BBPL		1			O
WIPH		1	1		O
KILL	3	1			O
WRSA		1			O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)

Signature: P. Read
 (Field Personnel)

Signature: [Handwritten Signature]
 (Project Manager)

Page 2 of 3

more on next page



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160 960 595 Project Name: Amherst
Date June 10/2011 Field Personnel: Pete Read

Weather Conditions: Temp: 13 Wind: 2 N Cloud: 80% PPT: 0 PPT in last 24 hrs: <.1 cm

GPS #: T 1

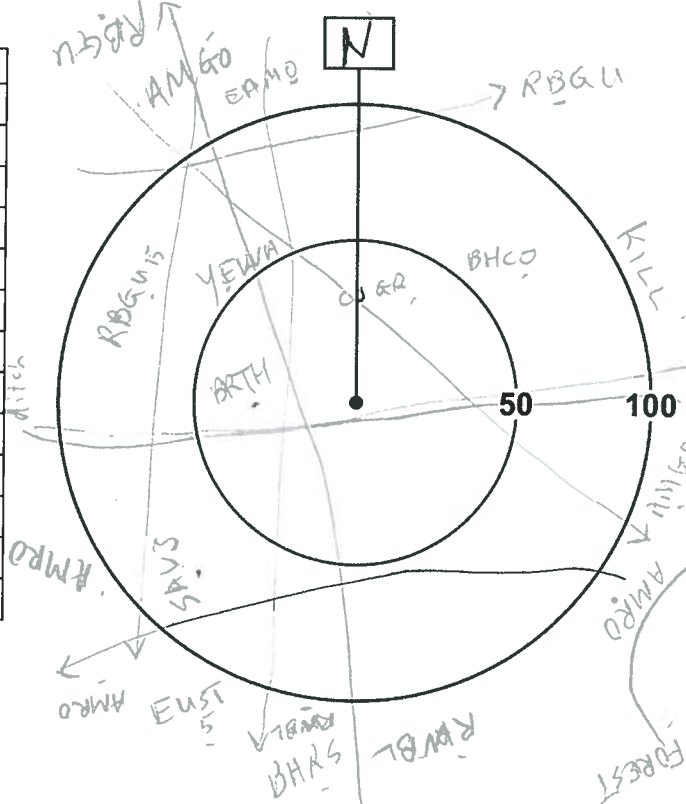
Station: 58 *some*

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 368 577 489 3492 #287

Start Time: 6:07

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RBGU		15		2	A/O
AMRO			1	1	A
BRTN	1				A
YEWA		1			A
AMGO				2	A
COGR	1				A
BHCO		1			A
KILL			1		A
EUST			5		A
BARS				1	A
RWBL			2		A
SAVS		1			A
EAME			1		A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ().
Signature: P. Read
(Field Personnel)

Signature: [Signature]
(Project Manager)



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type.)

Project Number: 160960595

Project Name: Amherst

Date: June 10/2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>16</u>	<u>2 NE</u>	<u>100%</u>	<u>0</u>	<u><.1cm</u>

Feature No.: G 43 Habitat Type: Grassland Time Start: 8:05 Time End: 8:49

Record location of all significant species on site map. - scattered bushes

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡	H	No. Flicker †	M	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	FY	Red-winged Bl.	H
Sora		Gr. Crested Fly.		Cedar Waxwing	H	Ea. Meadowlark †	P
Killdeer	D	Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	CF
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H
Upla. Sandpiper ‡	P	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo	S	Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 4

Quality Control: This form is complete & legible

Signature: P. Read
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: G-40 Habitat Type: Grassland Time Start: ① 8:20 Time End: 8:49
 ② 9:10 10:40

Record location of all significant species on site map. - not many shrubs.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose <i>fly + on gr.</i>	H	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard <i>flyover</i>	X	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡ <i>flyover</i>	X	Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡ <i>flyover</i>	X	Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey <i>next to marsh</i>	N	Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡	H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	D
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	S	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	N
Common Tern		Purple Mart.	N	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	N	Pine Wa. ‡		WI PH	A
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 4

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Keari
 (Project Manager)

June 10

Feature No.: M 5

Habitat Type: Marsh

Time Start: 9:32

Time End: 10:30

Record location of all significant species on site map.

-grassy/sedges
(no cattails)

June 11 10:15

11:15

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose <i>fly + on ground</i>	X	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck	H	Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard <i>15</i>	FY	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡ <i>flybys</i>	X	Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern <i>(2)</i>	S	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †	X	Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey	N	Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡	H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer	DD	Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper	H	Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull <i>fly + on field</i>	X	Blue Jay		Magnolia Wa. ‡		House Finch	
<i>(2)</i> Herring Gull <i>fly + on field</i>	X	Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
<i>(2)</i> Caspian Tern <i>fly over</i>	X	Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.	N	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	N	Pine Wa. ‡		AMWI 15	X
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡		BRAN 3	X

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

*all are from June 10 unless new on June 11 (which are marked (2))

SESA 10 X
 WRSA X
 SEPL X
 BBPL X
 WIPH N
 (2) NOPI M
 ABDU H

Pg. 3 of 4

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

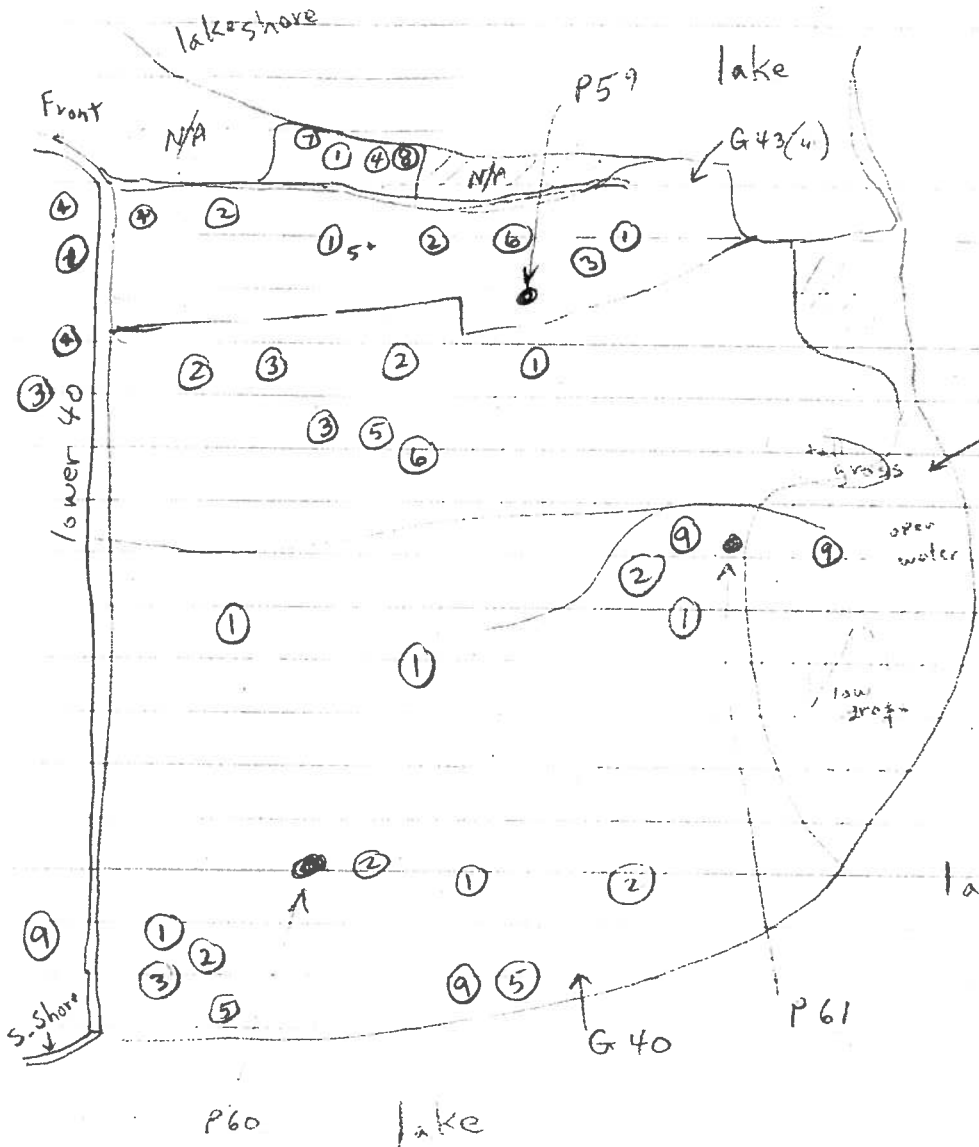
Signature: Kevin R

(Project Manager)

REV: 2011-05-27 / FORM 031

4 of 4







G 43(4), G 40, M 5

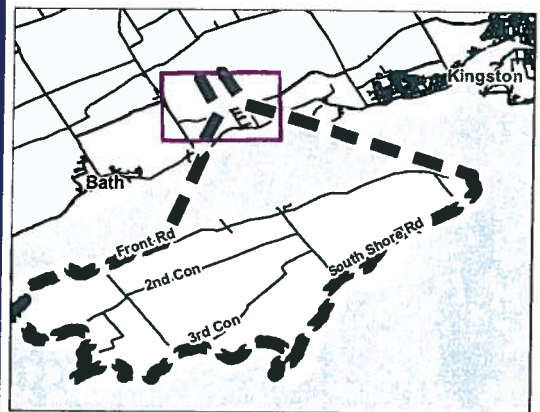


- | | |
|--------|--------|
| ① BOBO | ⑥ NOMA |
| ② SAVS | ⑦ NOFL |
| ③ EAME | ⑧ WIFL |
| ④ UPSA | ⑨ WIPH |
| ⑤ FAKI | |



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 11

Title

FIELD MAPBOOK





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160 960 595
Date June 11 / 2011

Project Name: Amherst
Field Personnel: Pete Read

Weather Conditions:	Temp: <u>15</u>	Wind: <u>1 E</u>	Cloud: <u>80</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
----------------------------	-----------------	------------------	------------------	---------------	------------------------------

GPS #: T 1

Station: 2

Habitat: Forest Swamp Marsh Hay Pasture Crop

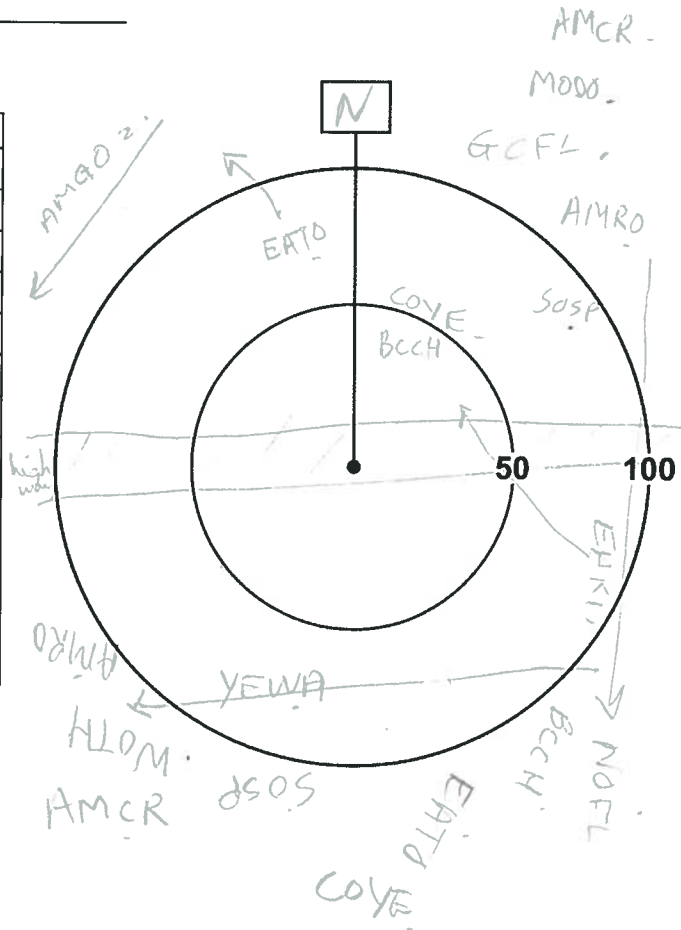
UTM: 363706 4897484 #299

Start Time: 6-25

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
AMGO				2	A
EATO		1	1		A
AMCR			2		A
MODO			1		A
GCFL			1		A
AMRO			2		A
SOSP		1	1		A
WOTH			1		A
YEWA				1	A
COYE		1	1		A
BCCH			1		A
NOFL			1		A
EAKI	1				A

*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

- 3 cars passed



Quality Control: This form is complete () & legible ()

Signature: P. Read
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 2

See also June

June 11/2011

T-15 C-80% W-3 E

PPT 0 PPT - 0

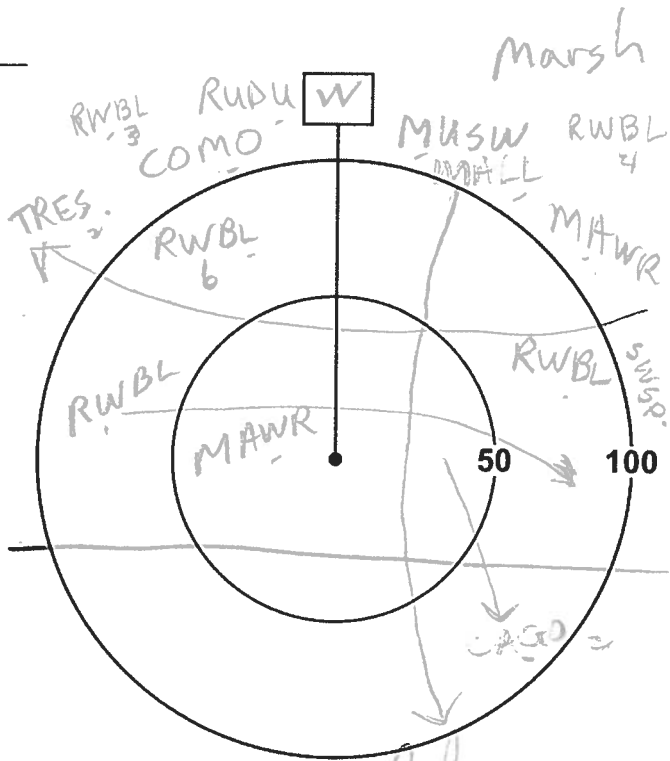
Station: P62 see map Day 9. M4

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: 365514 4888255 #298

Start Time: 5:00

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
COMO			1		●
MUSW			1		⊙
RUDU			1		⊙
MALL	1				⊙/A
CAGO	2				A
MAWR	1		1		A
RWBL	1	1	7	150	A
SWSP			1		A/O
TRES				2	A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

150 RWBL lulu flew out at 5:05

* new species or upgrades to breeding level on sheets from Day 9.

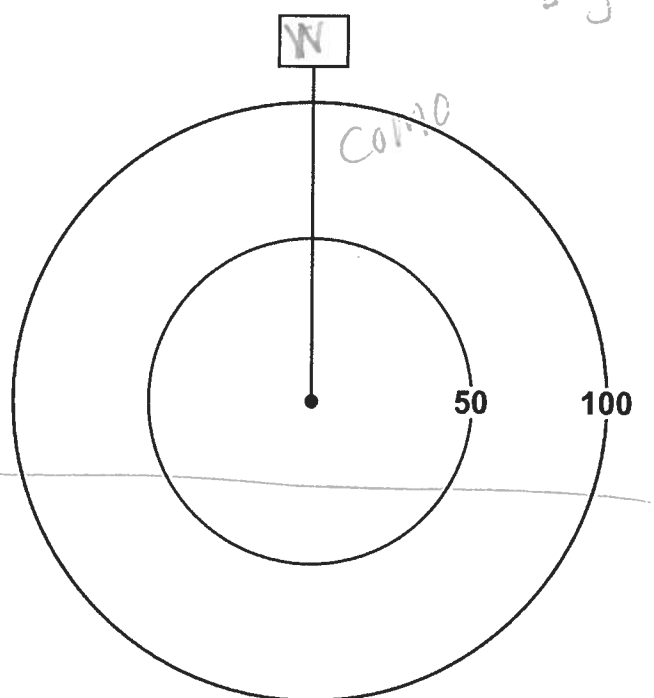
Station: P62 Marsh Bird Monitoring

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 5:20

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
COMO			1		0



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep.

Quality Control: This form is complete () & legible ().

Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

Page 1 of 1

Feature No.: W-49 Habitat Type: Woodlands Time Start: 9:35 Time End: 9:57

Record location of all significant species on site map. -planted on grassland (from edge G-38 + lower 40 Rd)
 ** Endangered, Threatened or Special Concern
 † Partners In Flight (see map on Day 12)
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡	
Pied-b. Grebe		Whip-poor-will ‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡ <i>flyover</i>	X	Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo. *	X	Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier ‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk ‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	FY	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	FY
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart. <i>flyover</i>	X	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* RBWO - large trees near intersection Lower 40 and S. Shore Rds

Signature: P. Read.
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: [Signature]
 (Project Manager)



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type.)

Project Number: 160 960 595

Project Name: Amherst

Date: June 11/2011

Field Personnel: Pete Read

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>15</u>	<u>1 E</u>	<u>80</u>	<u>0</u>	<u>0</u>

Feature No.: W-2 Habitat Type: Woods Time Start: ^①6:25 Time End: 7:36.

Record location of all significant species on site map. *- some scrubby* ^②7:47 *- some mature* 8:05
 ** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	S
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture	H	Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †	H	Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †	S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	S	Am. Robin	S	No. Cardinal	S
Red-shou. Hawk †‡		Alder Fly.	S	Gray Catbird	S	Rose-br. Grosbeak †	S
Red-tailed Hawk	H	Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	FY	Red-winged Bl.	T
Sora		Gr. Crested Fly.	S	Cedar Waxwing	H	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	P
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 5

Quality Control: This form is complete & legible

Signature: P. Read
 (Field Personnel)

Signature: Kate S
 (Project Manager)

Feature No.: G1 Habitat Type: "Grassland" Time Start: ① 6:45 Time End: 7:24

Record location of all significant species on site map. *- rather overground field*

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

② 7:36 - 8:25

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard	H	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	S
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.	S	Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk	H	Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	H	Bobolink †	S
Virginia Rail		Ea. Phoebe		European Starling	FY	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 5

Signature: P. Read
 (Field Personnel)

Quality Control: This form is complete & legible .

Signature: K. S.
 (Project Manager)

June 11

Feature No.: G-2 Habitat Type: Grassland Time Start: 7:25 Time End: 7:45

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † <i>south only</i>	S
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	T
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 5

Signature: P. Read

(Field Personnel)

Quality Control: This form is complete & legible

Signature: [Handwritten Signature]

(Project Manager)

Feature No.: W1

Habitat Type: Woodland

Time Start: 7:36

Time End: 7:46

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

- scrubby

- some mature trees.

① 7:36
② 8:10

8:20

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	H	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	S
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	P
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 5

Signature: _____

P. Read

(Field Personnel)

Quality Control: This form is complete & legible .

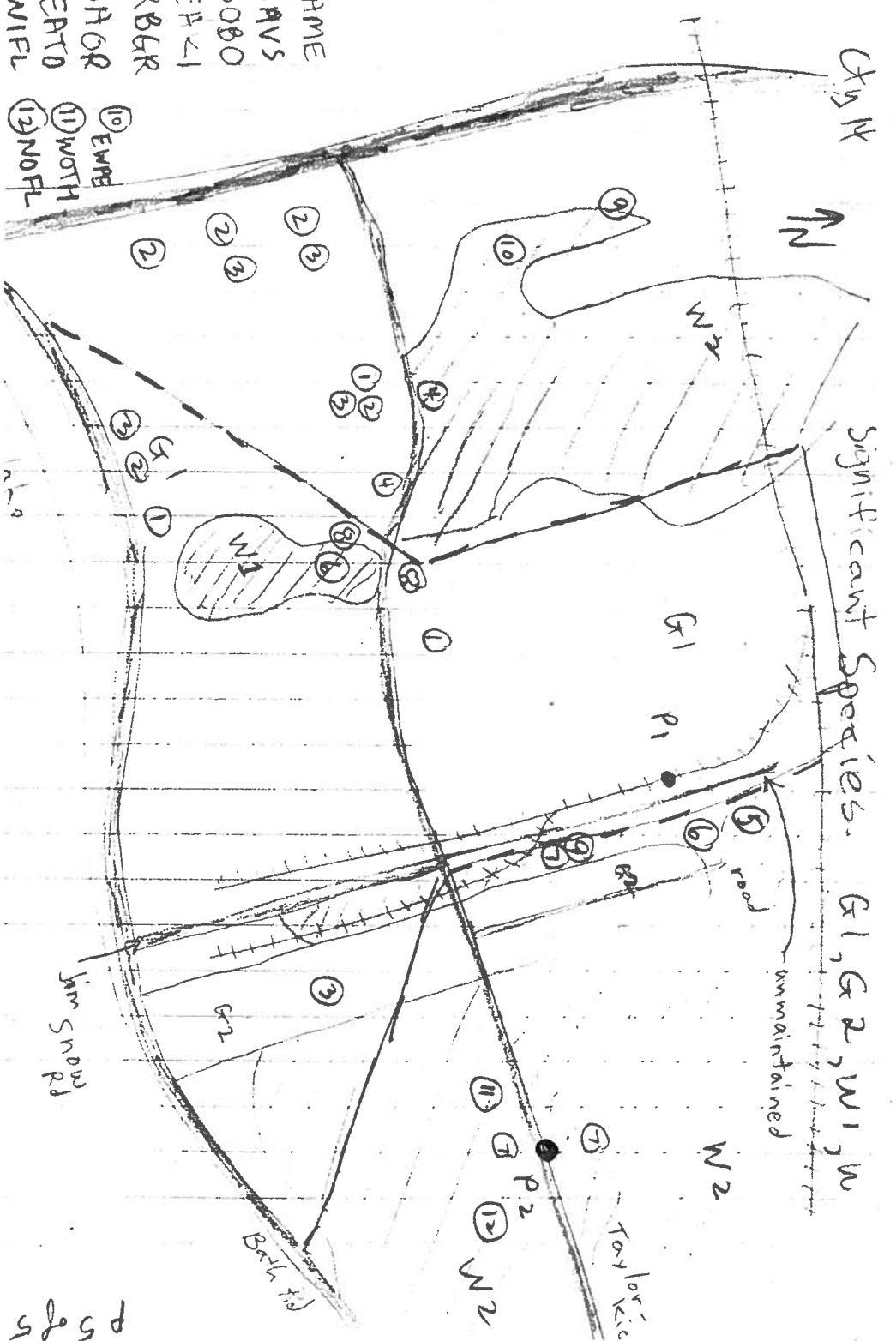
Signature: _____

K. ...

(Project Manager)

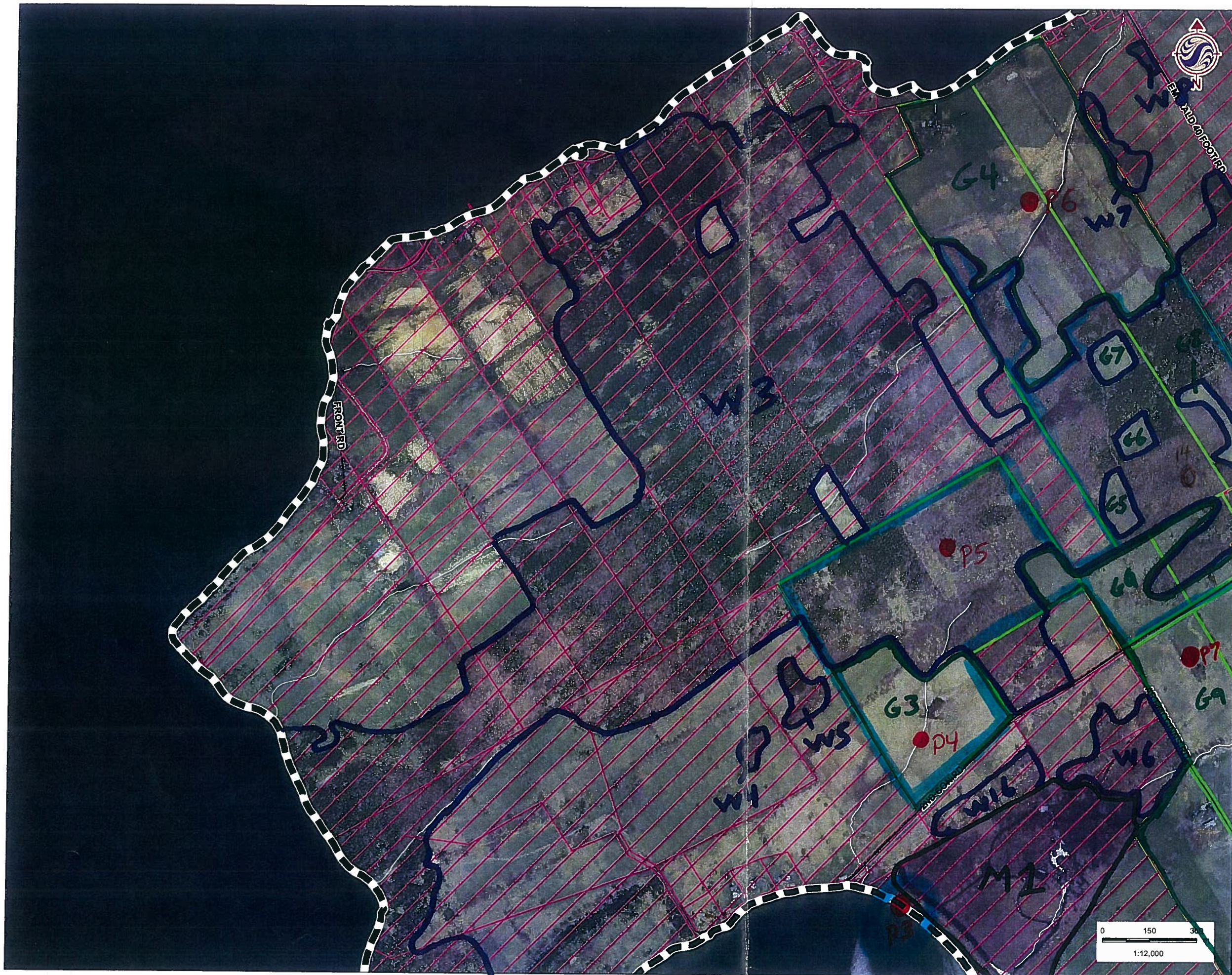
REV: 2011-05-27 / FORM 031

- EHME
- SAVS
- BOBO
- EA < 1
- RBGR
- BA GR
- EATO
- WIFL
- ⑩ EWRE
- ⑪ WOTH
- ⑫ NOFL









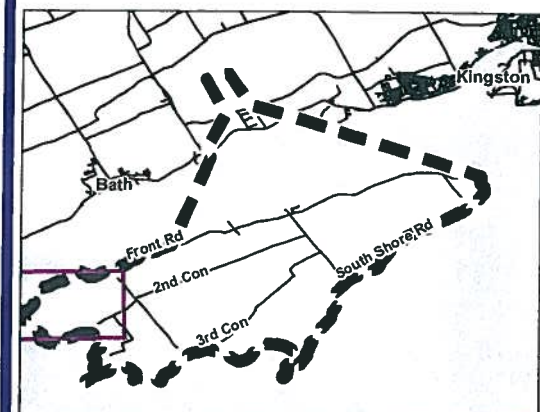
Significant Species. G1, G2, W1, W

ps of 5



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 1

Title

FIELD MAPBOOK

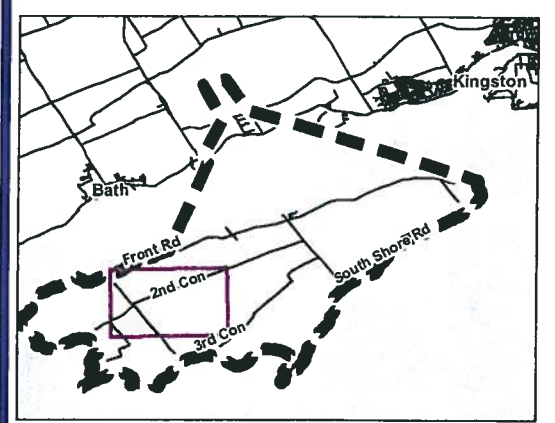


Legend

- Study Area
- Road
- Watercourse
- Amphibian Station

Property Status

- Optioned
- Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 3

Title
FIELD MAPBOOK



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 15/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	NW WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	13	2	0	0	0

Feature No.: M1 Habitat Type: _____ Time Start: 0515 Time End: 0635

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

(*) = edge (lake/marsh interface) - shoreline

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †	X	Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard	H	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat SH S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern	S	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron	H	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SH SH (*) S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. SH SH (*) S	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin SH (*) S		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird SH (*) S		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. SH (*) S		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A A	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle H	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S	Warbling Vireo		Yellow Wa. SH (*) S		Baltimore Oriole † (*) H	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	X	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 9

Quality Control: This form is complete & legible

Signature: AW

Signature: Karin

(Field Personnel)

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: G3 Habitat Type: _____ Time Start: 0645 Time End: 0722

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SM S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird H H		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † CF CF	
Virginia Rail		Ea. Phoebe		European Starling P P		Red-winged Bl. CF CF	
Sora		Gr. Crested Fly.		Cedar Waxwing P P		Ea. Meadowlark † SM S	
Killdeer		Ea. Kingbird † H H		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡ A A		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. SM S		Baltimore Oriole † H H	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull X		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 9

Signature: [Signature]
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: [Signature]
 (Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595
 Date: June 15/11

Project Name: Amherst
 Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>14</u>	WIND: <u>NW</u> <u>Light</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	------------------------------	--------------------	------------------	-----------------------------------

Feature No.: W3 Habitat Type: _____ Time Start: 0718 Time End: 0955

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡ <u>SM</u>	<u>S</u>
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † <u>SM</u>	<u>S</u>
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † <u>SM</u>	<u>S</u>
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>SM</u>	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡ <u>SM</u>	<u>S</u>	Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † <u>SM</u>	<u>S</u>	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † <u>SM</u>	<u>S</u>	Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly. <u>SM</u>	<u>S</u>	Gray Catbird <u>SM</u>	<u>S</u>	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † <u>SM</u>	<u>S</u>	No. Mockingbird		Indigo Bunt. <u>SM</u>	<u>S</u>
Am. Kestrel †		Least Fly.		Br. Thrasher † <u>SM</u>	<u>S</u>	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling <u>N</u>	<u>FY</u>	Red-winged Bl.	
Sora		Gr. Crested Fly. <u>P</u>	<u>P</u>	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. <u>SM</u>	<u>S</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>PSM</u>	<u>P</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo <u>SM</u>	<u>S</u>	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay <u>H</u>	<u>P</u>	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow <u>H</u>	<u>H</u>	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <u>SH</u>	<u>H</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove <u>H</u>	<u>H</u>	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 9

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin
 (Project Manager)

Feature No.: G 9 Habitat Type: _____ Time Start: 0805 Time End: 0831

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † SM S	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † SM FY	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SM S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.	S	Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † SM S	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. SM S	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle X	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch P P	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

- NW square has been foraged in the recent past
 - 2 pairs of Field Sparrow (as marked)
 - 2 ♂ towhees (as marked)

Pg. 4 of 9

Signature: _____

AW

(Field Personnel)

Quality Control: This form is complete & legible

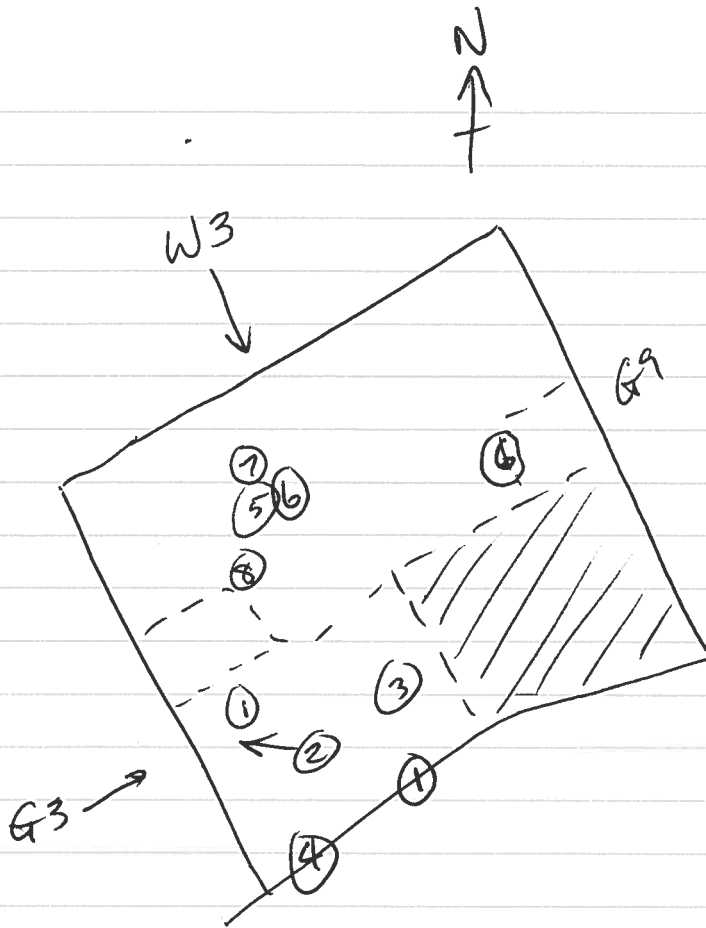
Signature: _____

Karin S

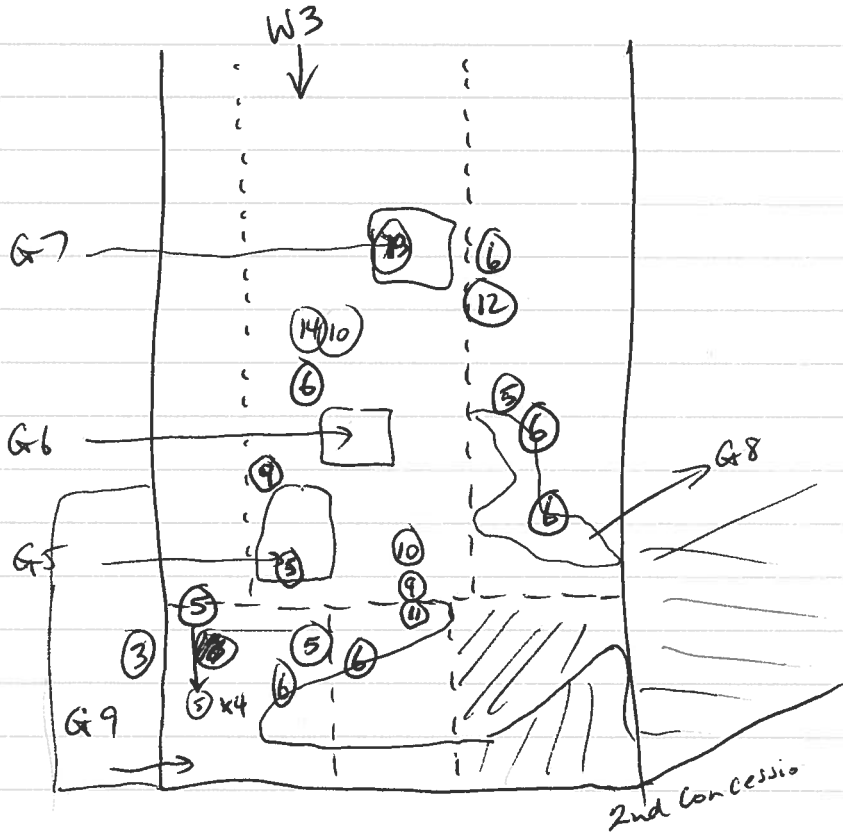
(Project Manager)

REV: 2011-05-27 / FORM 031

June 15/11



- ① E Kingbird
- ② Upland S
- ③ Bobolink
- ④ E Meadowlark
- ⑤ Field Sparrow
- ⑥ E Towhee
- ⑦ Br Thrasher
- ⑧ Willow Flyc.
- ⑨ Wood Thrush
- ⑩ Ovenbird
- ⑪ Giant Swallowtail
- ⑫ Hermit Thrush
- ⑬ Grasshopper Sp
- ⑭ E W Wren



2nd Concession



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 15/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>NW 1</u>	CLOUD: <u>20</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: 98 Habitat Type: _____ Time Start: 0852 Time End: 0901

Record location of all significant species on site map.

207 towhee (as mapped)

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † <u>SM</u>	<u>S</u>
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>SM</u>	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing <u>SH</u>	<u>H</u>	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. <u>SM</u>	<u>S</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 9

Quality Control: This form is complete & legible

Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

G7

Habitat Type:

Time Start:

0925

Time End:

0935

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat SM S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. † SM S	
Osprey		Hairy Wo.		Veery		Song Sp. SM S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin SH H		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk SH H		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. SH H	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. SM S		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch H H	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Grasshopper Sparrow → West-central
~~West-central~~ of field

Pg. 6 of 9

Signature:

AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Kati

(Project Manager)

REV: 2011-05-27 / FORM 031



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 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 15/11

Field Personnel: Alan Worthington

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>0</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs):
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Feature No.: G6 Habitat Type: _____ Time Start: 0940 Time End: 0943

Record location of all significant species on site map.

Mostly just grass, with not much herbaceous cover

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	X	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 9

Quality Control: This form is complete & legible

Signature: AW
 (Field Personnel)

Signature: Kati S
 (Project Manager)

Feature No.: GS

Habitat Type: _____

Time Start: 0945

Time End: 0951

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <i>FM</i>	<i>S</i>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † <i>SM</i>	<i>S</i>
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <i>SM</i>	<i>S</i>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow † <i>A</i>		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

[Handwritten signature]

Pg. 8 of 9

Signature: *[Handwritten signature]*
(Field Personnel)

Quality Control: This form is complete & legible .

Signature: *[Handwritten signature]*
(Project Manager)



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1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
Observation Form**
(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: Jun 15/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>24</u>	WIND: <u>0</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: W6 Habitat Type: _____ Time Start: 1014 Time End: 1021

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	FY
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	H H
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	FY
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 9

Signature: AW
(Field Personnel)

Quality Control: This form is complete & legible
Signature: [Signature]
(Project Manager)

REV: 2011-05-27 / FORM 031

Station: P4 / 160

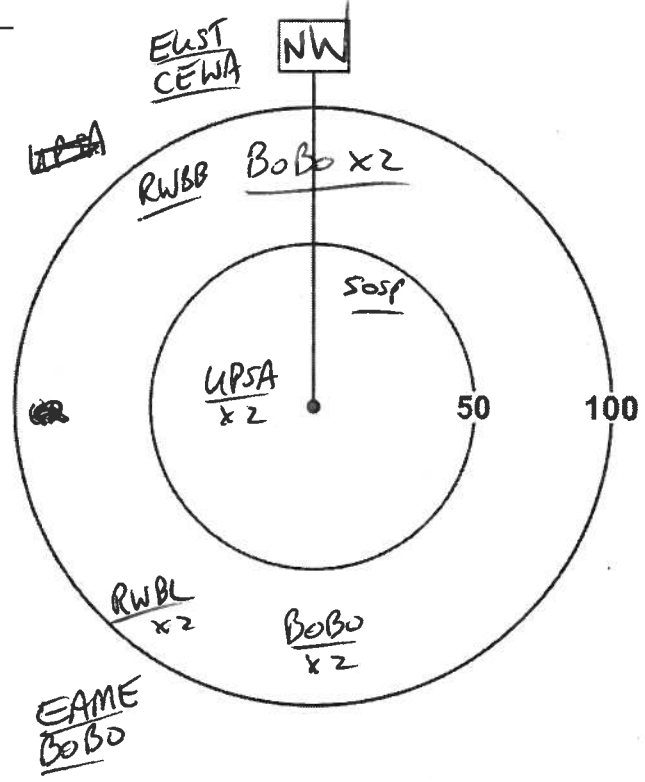
Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0655

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BAOR				2	A
UPSA	2				A
BoBo		4 4			A
SOSP	1				O
GRCA		1		1	A
RBBG				3	B
EUST			2		A
CEWA			2		A
RWBL		3			O
EAME			1		A
BoBo			1		O

Waxw



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

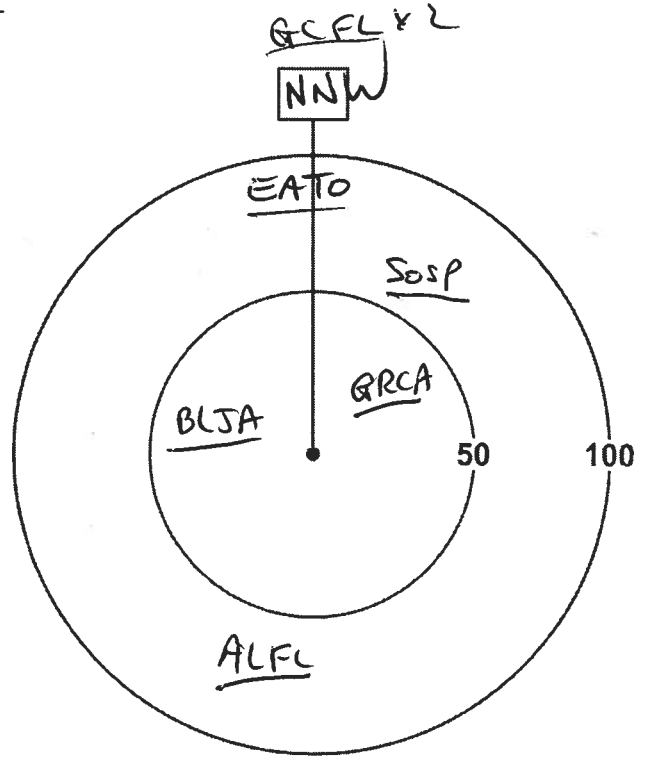
Station: P5 / 162 Excellent strawberries!

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0742

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
GCFL			2		A
ALFL		1			O
GRCA	1		2		A O
BLJA	1				A
SOSP		1			O
EATO		1			A D



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()

Signature: _____
 (Field Personnel)

Signature: Kerrin S
 (Project Manager)

Page 2 of 3

REV: May, 07 Form 020

Station: P14 172

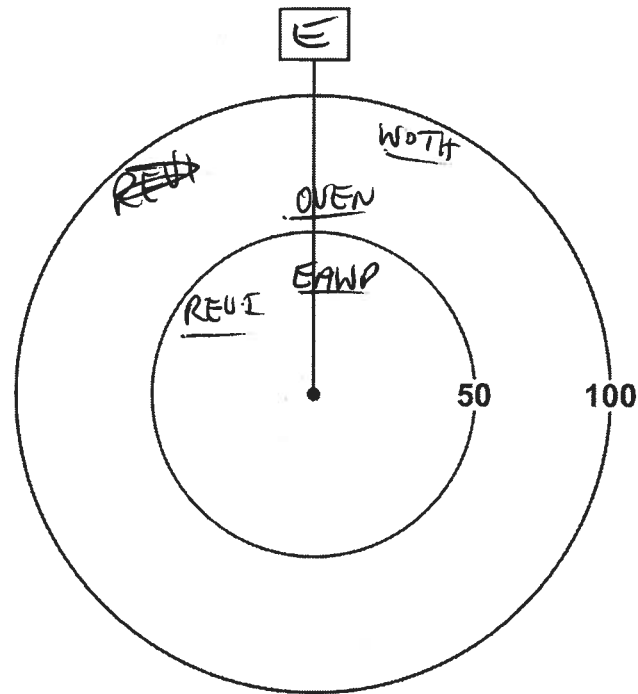
Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0837

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
REVI	1				A
WOZH		1			A
OVEN		1			A
EAWP	1				A

*Height of blade sweep will vary from project to project; Check with Project Manager
 O – On ground; A – Below height of blade sweep; B – At height of blade sweep;
 C – Above height of blade sweep; D – Well Above the height of blade sweep



Station: _____

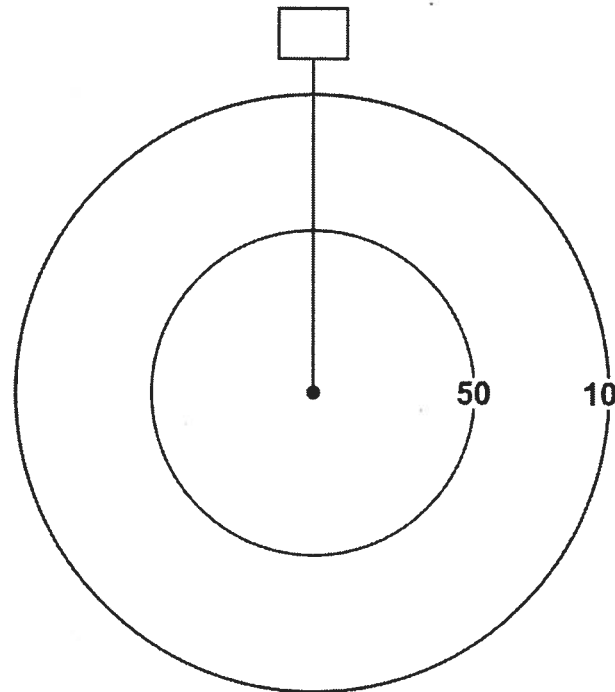
Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: _____

Species	<50 m	50-100 m	> 100m	Flyovers	Height*

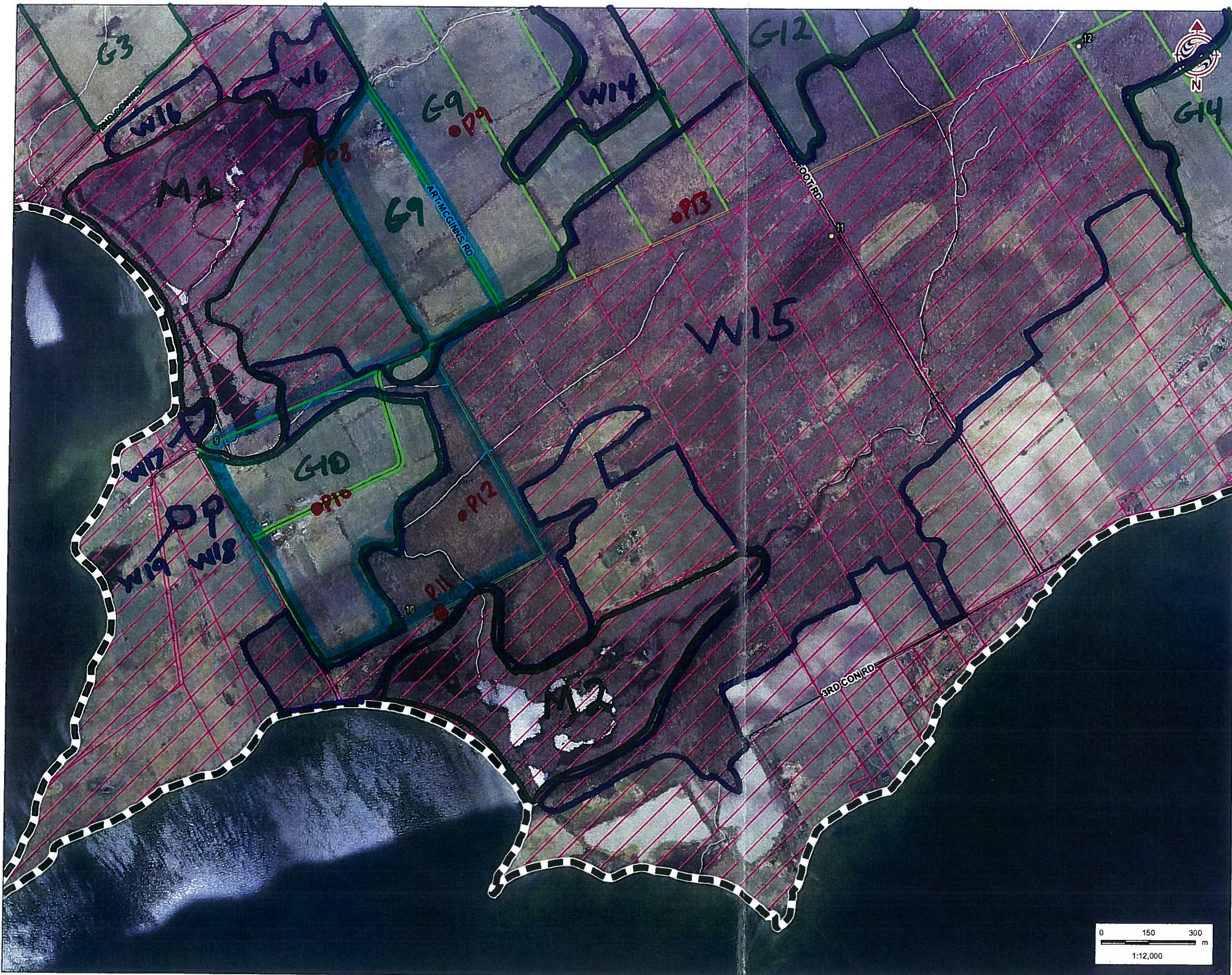
*Height of blade sweep will vary from project to project; Check with Project Manager
 O – On ground; A – Below height of blade sweep; B – At height of blade sweep;
 C – Above height of blade sweep; D – Well Above the height of blade sweep









Quality Control: This form is complete (✓) & legible (✓).

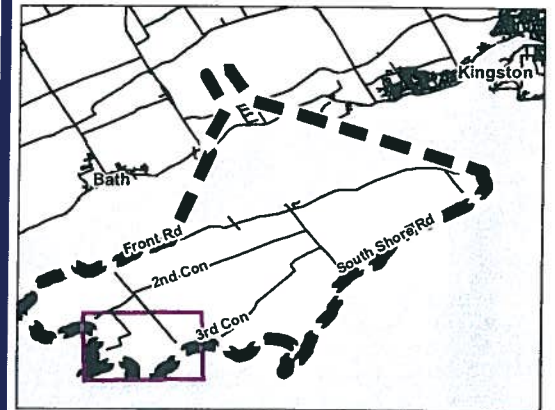
Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optional
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

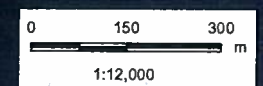
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 2

Title

FIELD MAPBOOK





Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: Jun 16/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>10</u>	WIND: <u>1 SE</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	----------------------	--------------------	------------------	-----------------------------------

Feature No.: G10 Habitat Type: _____ Time Start: 0525 Time End: 0600

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

0730

0740

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † SM	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SM	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. SH SM	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin SM	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † SM	S
Virginia Rail		Ea. Phoebe		European Starling F	FY	Red-winged Bl. A	A
Sora		Gr. Crested Fly. SM	S	Cedar Waxwing		Ea. Meadowlark † SM	S
Killdeer A A		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle H	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. H	H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. SM	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	X	Blue Jay PA	P	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow A	A	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch H	H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow CF	CF
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow H	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 6

Quality Control: This form is complete & legible

Signature: AW

Signature: [Signature]

(Field Personnel)

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W15 Habitat Type: _____ Time Start: 0600 Time End: 0730

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

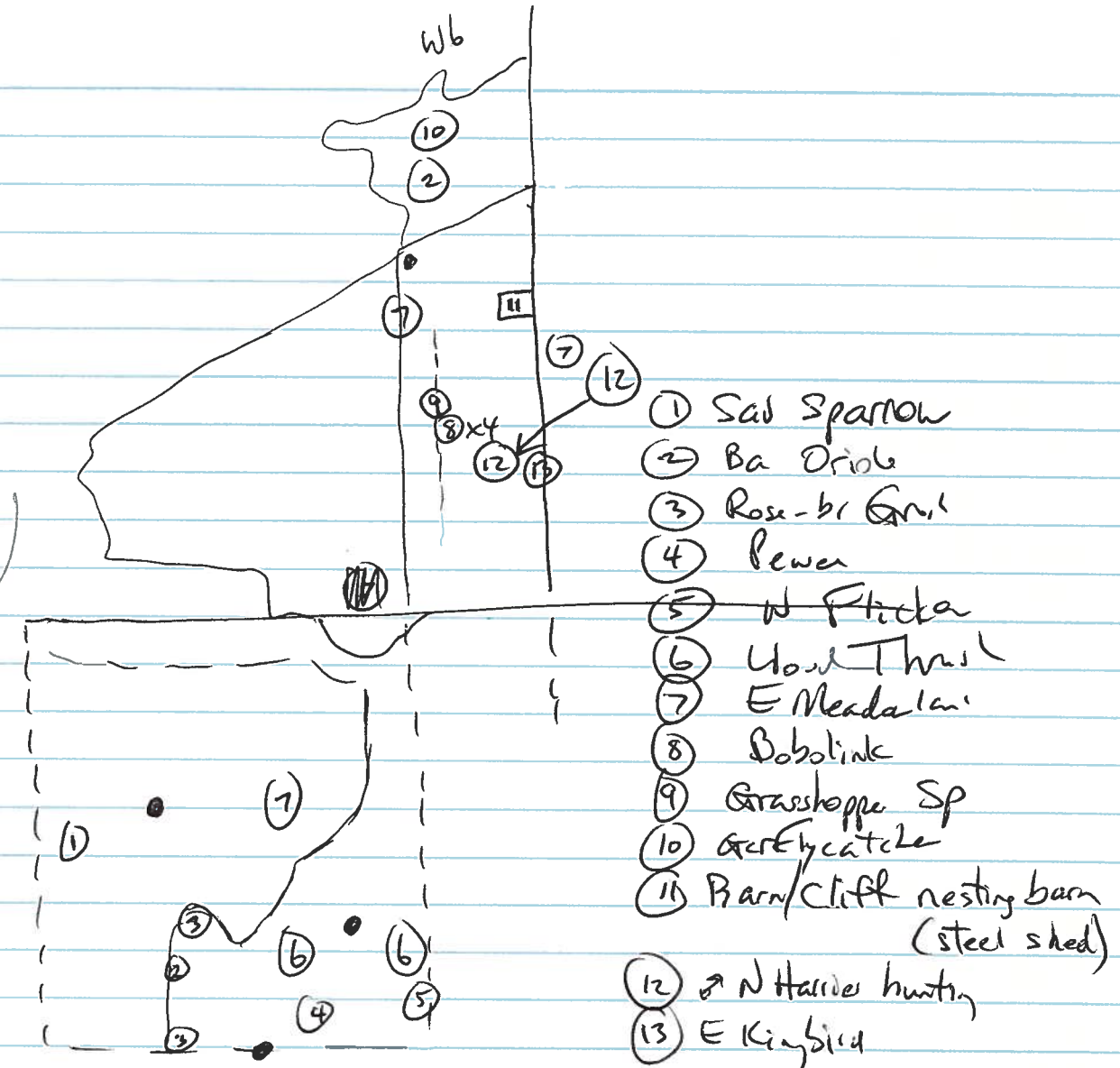
Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch H	H	Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren SM	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo. SH	H	Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker † SM	S	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † SM	S	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † SM	S	Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak † SM	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling SH	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	SM	Yellow Wa. SM	S	Baltimore Oriole † SM	S
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 6

Signature: AW
(Field Personnel)

Quality Control: This form is complete & legible
Signature: [Signature]
(Project Manager)



- ① Sab Sparrow
- ② Ba Oriole
- ③ Rose-br Gros
- ④ Pewee
- ⑤ W Flicker
- ⑥ Wood Thrush
- ⑦ E Meadowlark
- ⑧ Bobolink
- ⑨ Grasshopper Sp
- ⑩ Gr Flycatcher
- ⑪ Barn/Cliff nesting barn (steel shed)
- ⑫ → N Harrier hunting
- ⑬ E Kingbird

June 16/11



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 16/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>15</u>	WIND: <u>0</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	-------------------	--------------------	------------------	-----------------------------------

Feature No.: M2 Habitat Type: _____ Time Start: 0615 Time End: 0643

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du. <u>SP</u>	<u>H</u>	Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡	<u>X</u>	Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	<u>P</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	<u>SM</u>	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 6

Quality Control: This form is complete & legible

Signature: AW
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

Feature No.: G9 Habitat Type: _____ Time Start: 0800 Time End: 902

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow	N	Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow H	N	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp. SM	S
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	H
Osprey		Hairy Wo.		Veery		Song Sp. SM	S
N. Harrier †‡	H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	P P
Virginia Rail		Ea. Phoebe		European Starling	FP	Red-winged Bl.	A A
Sora		Gr. Crested Fly.		Cedar Waxwing	P	Ea. Meadowlark †	SM S
Killdeer		Ea. Kingbird †	H H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	H H
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. SM	S	Baltimore Oriole †	X
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow H	H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pair of WISN in adjacent M1
 Multiple pairs each of Barn/Cliff Swallow nesting in shed (barn)

①

Pg. 4 of 6

Signature: _____

AW

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

Kerri S

(Project Manager)



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 16/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>20</u>	WIND: <u>0</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: W6 Habitat Type: _____ Time Start: 0825 Time End: 0853
0904 0917

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>SM</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron	<u>P</u>	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	<u>A</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. <u>SM</u>	<u>S</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	<u>S</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly. <u>SM</u>	<u>S</u>	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle <u>H</u>	<u>H</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>SM</u>	<u>S</u>	Baltimore Oriole † <u>SM</u>	<u>S</u>
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove <u>SM</u>	<u>S</u>	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 6

Quality Control: This form is complete & legible .

Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

M1

Habitat Type:

Time Start:

0815

Time End:

0845**Record location of all significant species on site map.**

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard	H	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron	X	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	P
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	P	Red-winged Bl.	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	P	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	P	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 6 of 6

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595 Project Name: Amhart
Date June 16/11 Field Personnel: Alan Wormington

Weather Conditions:	Temp: <u>10</u>	Wind: <u>SE 1</u>	Cloud: <u>0</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
---------------------	-----------------	-------------------	-----------------	---------------	------------------------------

GPS #: T__

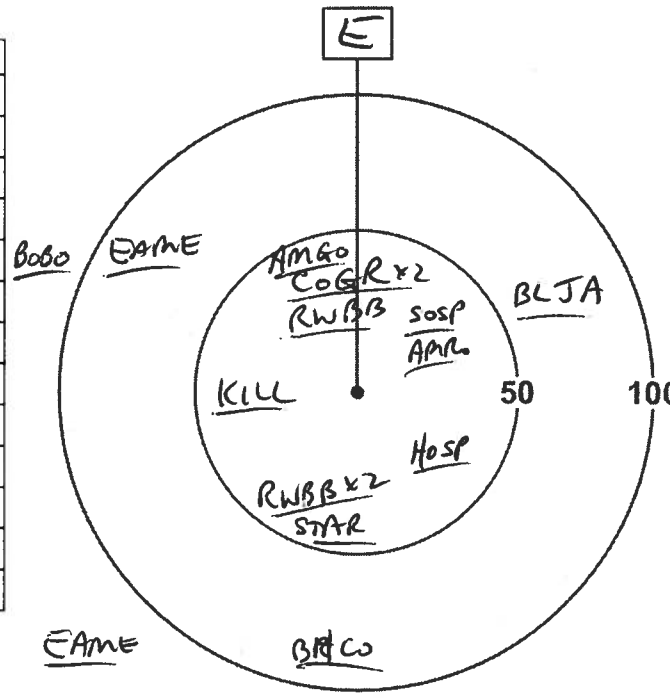
Station: P10/171

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0524

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
TRES				1	A
COGR				67 67	A/B
EUST				6	A
RBGN				1	B
EUST				1	A
RBGN				1	B
Bobo			1		0
EAME		1	1		0
KILL	1				0
AMGO	1				0
COGR	2				0
RWBL	3				0
BLJA		1			0



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

BHCO	1	0
EUST	1	0

AMBI - calling from marsh way off to the west

HOSP	1	0
AMRO	1	0
SOSP	1	0

Quality Control: This form is complete & legible .

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

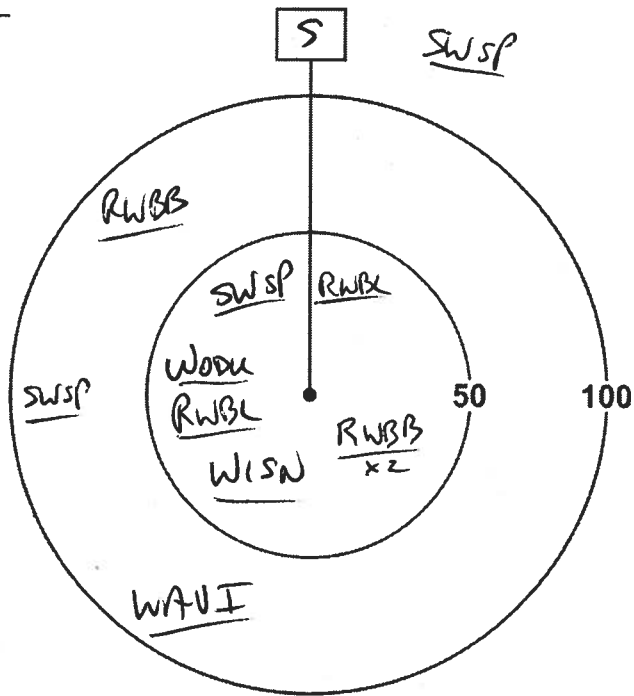
Station: P11 / 358503
4885561 358503

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0615

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
WODU	1				O
WAVI		1			A
WISN	1				B
SWSP	1	1	1		O
RWBL	4	1			O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

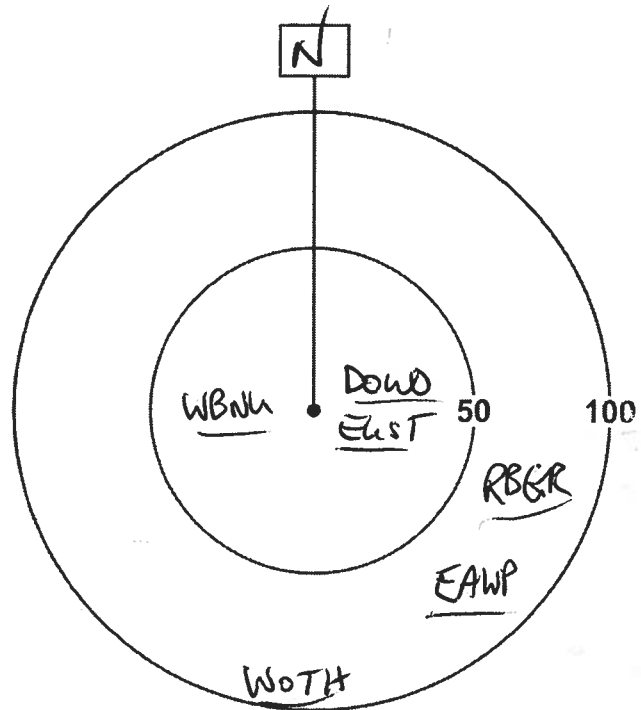
Station: P12 / 358599
4885899

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0712

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EAST	1				A
WBNU	1				A
WOTH		1			O
EAWP	1	1			A
RBGR		1			A
DOWD	1				A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

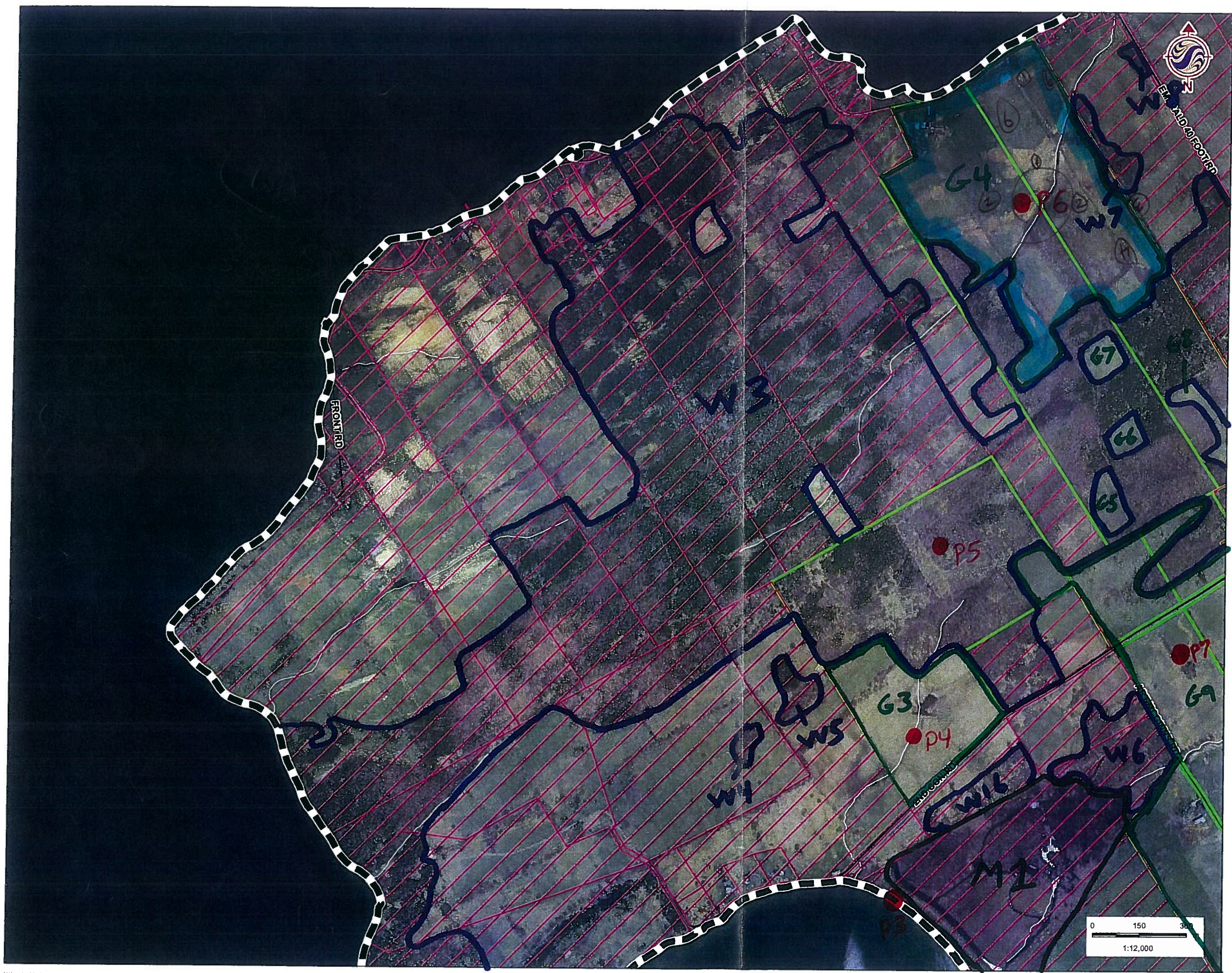
Quality Control: This form is complete () & legible ()

Signature: _____

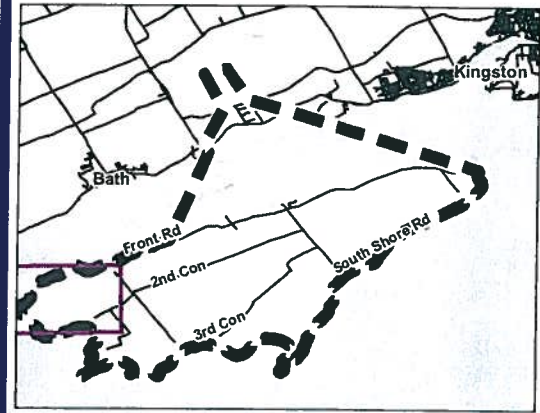
(Field Personnel)

Signature: Karin

(Project Manager)



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned
- ① Upland Saw
 2 E Meadow
 3 Wood Run
 4 Willow Pt
 ⑤ B. Owl
 6 SAVs



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



May 2011
160960595







Client/Project
 WINDLECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT

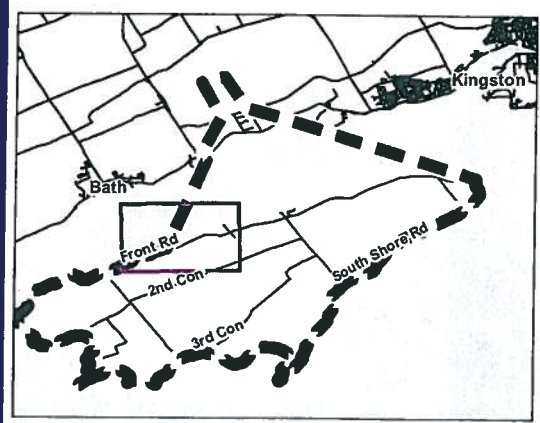
Figure No.
 Tile 1

Title
FIELD MAPBOOK

p25
p26



- Legend**
-  Study Area
 -  Road
 -  Watercourse
 -  Amphibian Station
- Property Status**
-  Optioned
 -  Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

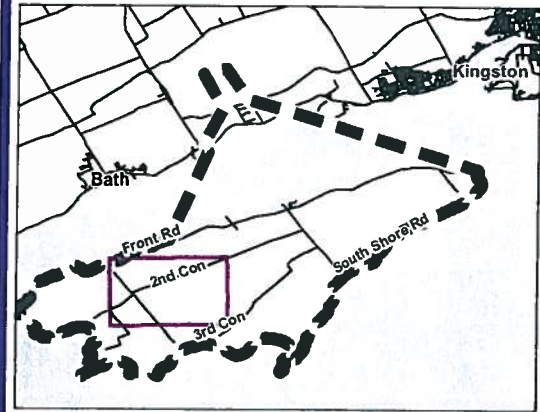
Figure No.
Tile 4

Title
FIELD MAPBOOK



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned

P17
P18



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



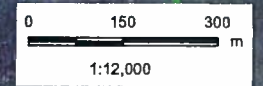
Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 3

Title
FIELD MAPBOOK





Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 13/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>10</u>	WIND: <u>0</u>	CLOUD: <u>10</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	-------------------	---------------------	------------------	-----------------------------------

Feature No.: G42 Habitat Type: _____ Time Start: 0525 Time End: 0640

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

G42

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo † Am		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡ <u>V flycatcher</u>	<u>X</u>	Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † <u>SM</u>	<u>S</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <u>SM</u>	<u>S</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>SM</u>	<u>S</u>	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. <u>SM SH</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † <u>SM</u>	<u>S</u>	Bobolink † <u>CF P SM</u>	<u>CF</u>
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing <u>P</u>	<u>P</u>	Ea. Meadowlark † <u>SH</u>	<u>H</u>
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	<u>S</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.	<u>P</u>	Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 9

Signature: [Signature]
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: [Signature]
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

W8

Habitat Type:

Time Start:

1124

Time End:

1129

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <i>ST 3</i>	<i>S</i>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. <i>SH</i>	<i>H</i>	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <i>SM</i>	<i>S</i>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 9

Signature:

[Handwritten Signature]
(Field Personnel)

Quality Control: This form is complete & legible

Signature:

[Handwritten Signature]
(Project Manager)

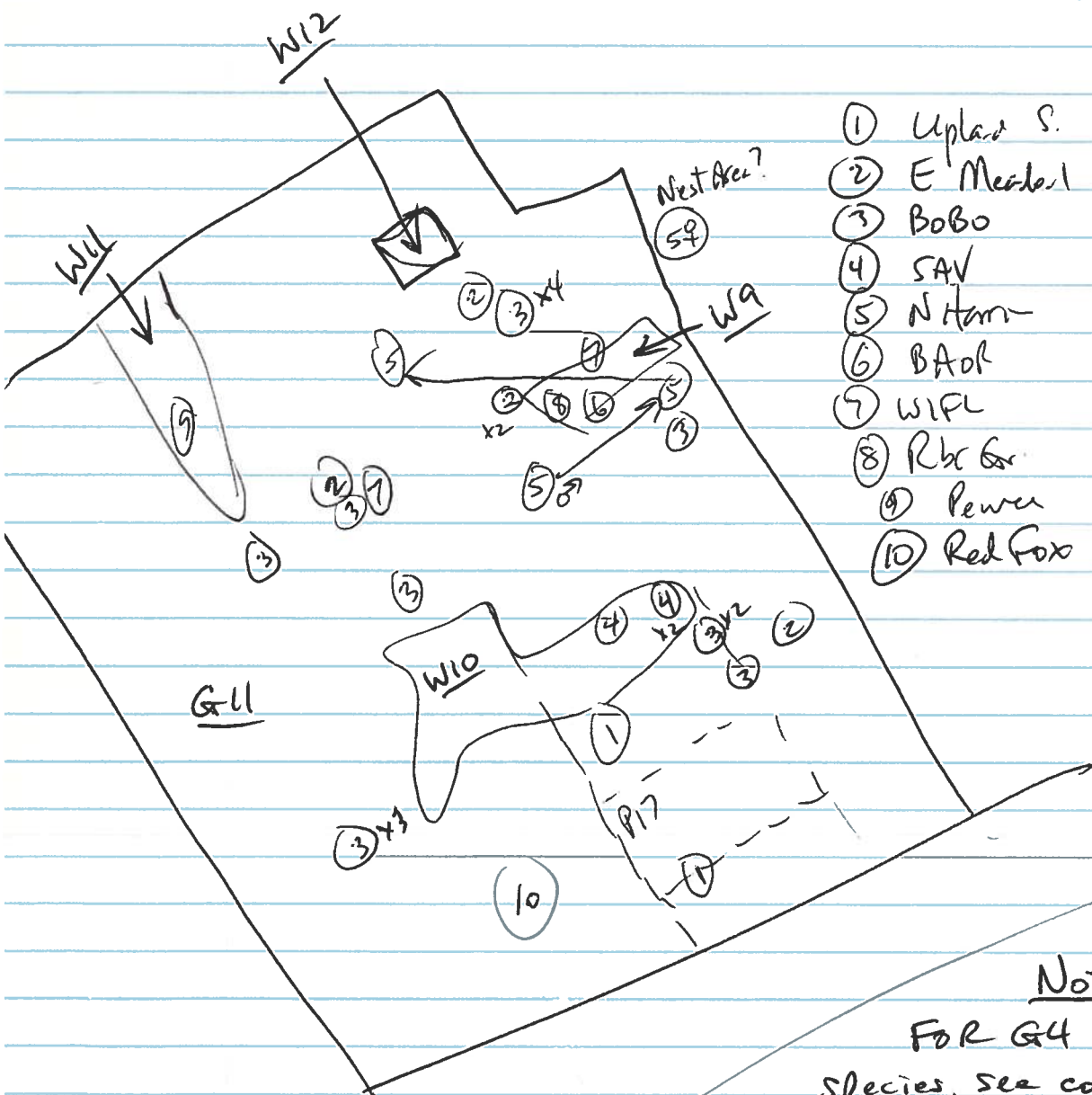
(Project Manager)

REV: 2011-05-27 / FORM 031

G 11
June 13/11 - Day 3



11 ~~12~~



NOTE:
 For G4 significant species, see colour map



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 13/11

Field Personnel: Alan Normington

Weather Conditions:	TEMP (°C): <u>10</u>	WIND: <u>0</u>	CLOUD: <u>25</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	-------------------	---------------------	------------------	-----------------------------------

Feature No.: W20 Habitat Type: _____ Time Start: 0602 Time End: 0619

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

W20

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo † <u>SM</u>	<u>S</u>	Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee <u>SH</u>	<u>H</u>	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <u>FY SH</u>	<u>FY</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak † <u>SM</u>	<u>S</u>
Red-tailed Hawk		Willow Fly. † <u>SH</u>	<u>P</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † <u>SM</u>	<u>S</u>
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing <u>P</u>	<u>P</u>	Ea. Meadowlark †	
Killdeer		Ea. Kingbird † <u>SH</u>	<u>H</u>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>SM</u>	<u>S</u>	Baltimore Oriole † <u>SH</u>	<u>H</u>
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 9

Signature: _____

[Signature]
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

[Signature]
 (Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 13/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>9</u>	WIND: <u>1</u>	CLOUD: <u>70</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: G11 Habitat Type: _____ Time Start: 705 Time End: 1006

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Red Fox

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †	BE	Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>SM</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † <u>PA</u>	<u>A</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. † <u>SM</u>	<u>S</u>
Osprey		Hairy Wo.		Veery		Song Sp. <u>SM</u>	<u>S</u>
N. Harrier †‡ <u>SH</u>	<u>H</u>	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † <u>SM</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † <u>SM</u>	<u>S</u>
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † <u>SM P</u>	<u>P</u>
Killdeer		Ea. Kingbird † <u>SP</u>	<u>P</u>	Blue-wing. Wa. †		Co. Grackle	<u>H</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡ <u>A</u>	<u>A</u>	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <u>P</u>	<u>P</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart. <u>✓</u>	<u>X</u>	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow <u>X</u>		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 9

Quality Control: This form is complete & legible .

Signature: _____
 (Field Personnel)

Signature: Kurt S.
 (Project Manager)

Feature No.: W10 Habitat Type: Woodland Time Start: 0735 Time End: 0810

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <i>SM</i>	<i>S</i>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp. <i>SM</i>	<i>S</i>
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † <i>P</i>	<i>P</i>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <i>P</i>	<i>P</i>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <i>FY</i>	<i>FY</i>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <i>SM</i>	<i>S</i>	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling <i>SH</i>	<i>FY</i>	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle <i>SH</i>	<i>HE</i>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <i>SAA</i>	<i>S</i>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <i>P</i>	<i>P</i>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 9

Signature: _____

AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

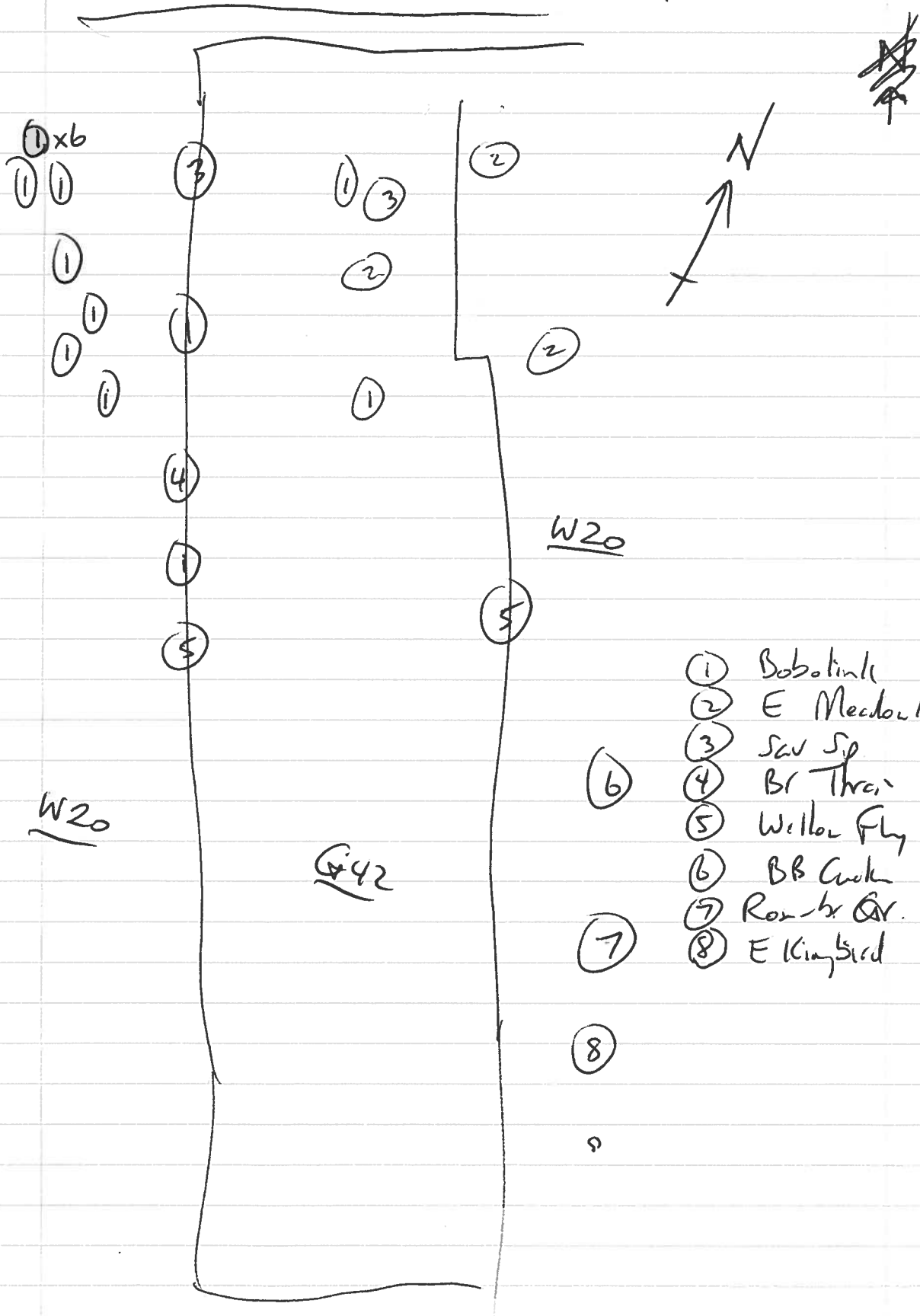
Kathie

(Project Manager)

REV: 2011-05-27 / FORM 031

June 13/11 - Day 3

G42





Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 13 / 11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>12</u>	WIND: <u>1</u>	CLOUD: <u>60</u>	PPT: <u>0</u>	PPT (in last 24 hrs):
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Feature No.: W9 Habitat Type: _____ Time Start: 0822 Time End: 0843

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>SM</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>SM</u>	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <u>P</u>	<u>P</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>A</u>	<u>A</u>	Rose-br. Grosbeak † <u>EM</u>	<u>S</u>
Red-tailed Hawk		Willow Fly. † <u>SH</u>	<u>H</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>SM</u>	<u>S</u>	Baltimore Oriole † <u>A</u>	<u>A</u>
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <u>P</u>	<u>P</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 9

Signature: _____

[Signature]
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

[Signature]
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

W11

Habitat Type:

Time Start:

0855

Time End:

0922

Record location of all significant species on site map.

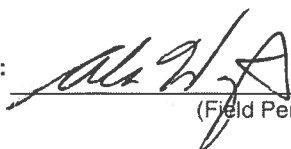
** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat SM S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren SM S		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SMA A	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. SM S	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † SM S		Am. Robin SM S		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird A A		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling SA H		Red-winged Bl. SM S	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. SM S		Baltimore Oriole † SM S	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

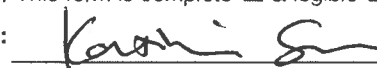
Pg. 6 of 9

Signature:


 (Field Personnel)

Quality Control: This form is complete & legible

Signature:


 (Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 13/11

Field Personnel: Alan Wermington

Weather Conditions:	TEMP (°C): <u>12</u>	WIND: <u>1</u>	CLOUD: <u>50</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: G4 Habitat Type: _____ Time Start: 1020 Time End: 1120

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	SH	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † SM	S
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron <u>flyover</u>	X	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † P	P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SM	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird SM	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † P	P
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. SM A	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † P	P
Killdeer		Ea. Kingbird †	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove SM	S	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 9

Signature: _____

(Handwritten Signature)
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

(Handwritten Signature)
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W7 Habitat Type: _____ Time Start: 1101 Time End: 1113

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SM S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † SM S		Am. Robin >H H		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † SM S		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. SM S	
Sora		Gr. Crested Fly. SM S		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe H		Warbling Vireo SM S		Yellow Wa. SM S		Baltimore Oriole † SM S	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Flushed N end of section

Signature: [Signature]
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: [Signature]
 (Project Manager)



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595 Project Name: Amherst
Date June 13 / 11 Field Personnel: Alan Warmingto

Weather Conditions: Temp: 10 Wind: 0 Cloud: 10 PPT: 0 PPT in last 24 hrs: 0

GPS #: T__

P25

Station: P25

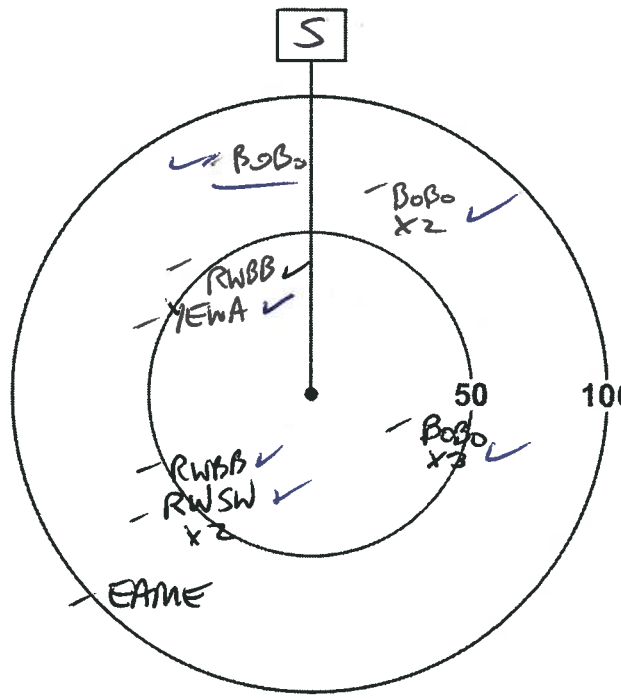
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0535

NRWS

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RWSW	2				A
YEWA	1				A
EAME		1			O
Bobo		1			B
Bobo		2			A
Bobo	3				O
RWBB	2				A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Rough-w Swallow

G42

Quality Control: This form is complete () & legible ()
Signature: AW
(Field Personnel)

Signature: [Signature]
(Project Manager)

Station: P17 198

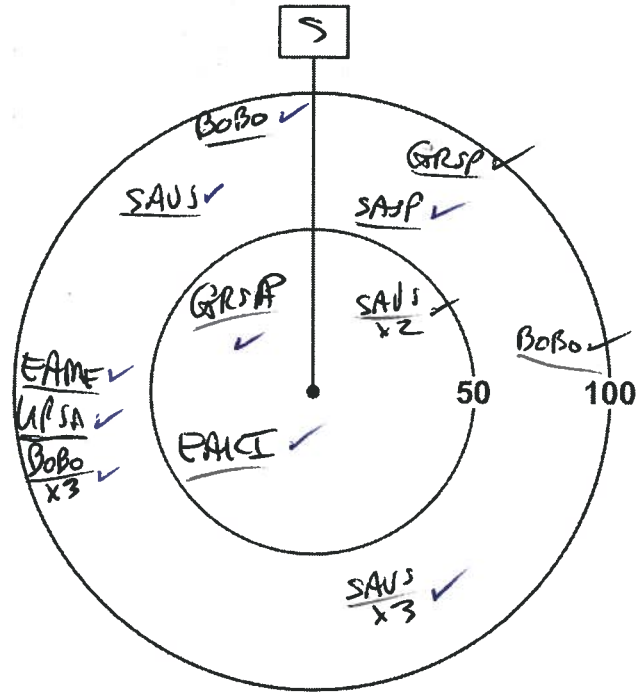
G11

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0714

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
COGR				1	
Bobo		5			A
SAUS	2				O
SAUJ		5			O
EAME		1			O
GRSP	1				O
GRSP		1			O
EAKI	1				A
URSA		1			A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P18 199

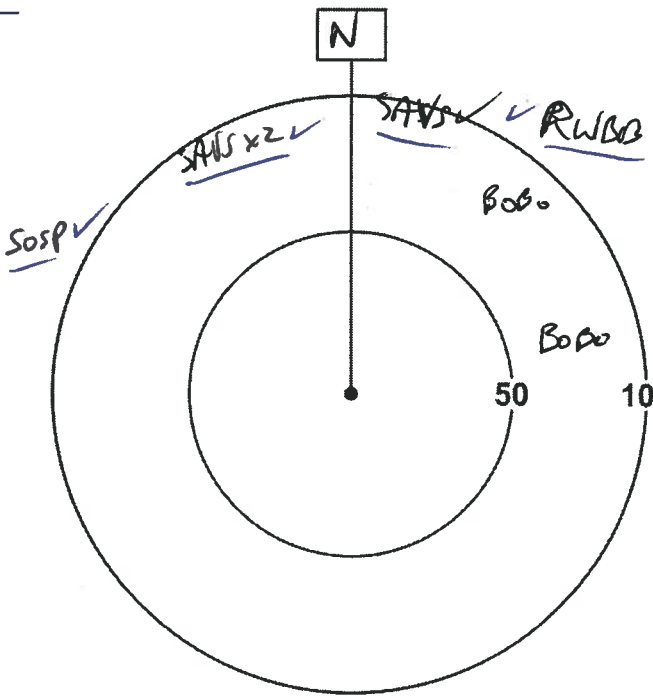
G11

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0931

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
SAUS		3			O
So SP			1		O
RWBB			1		O
TRES				2	A
Bobo		2			A
RWBh				1	A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓).

Signature: [Signature]

Signature: [Signature]

(Field Personnel)

(Project Manager)

Page 3 of 4

REV: May, 07 Form 020

Wrong location
GPS died (batteries)

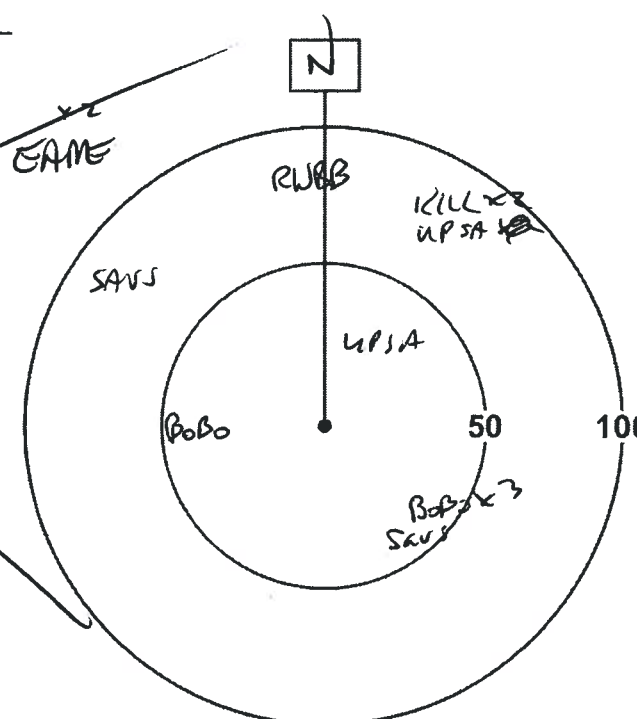
Station: P6

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 1028

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
UPSA	1	1			A
KILL		2			O
RWBB	1				A
EAME			2		O
SAVS	1	1			O
Bobo	3				O
BARB				2	A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

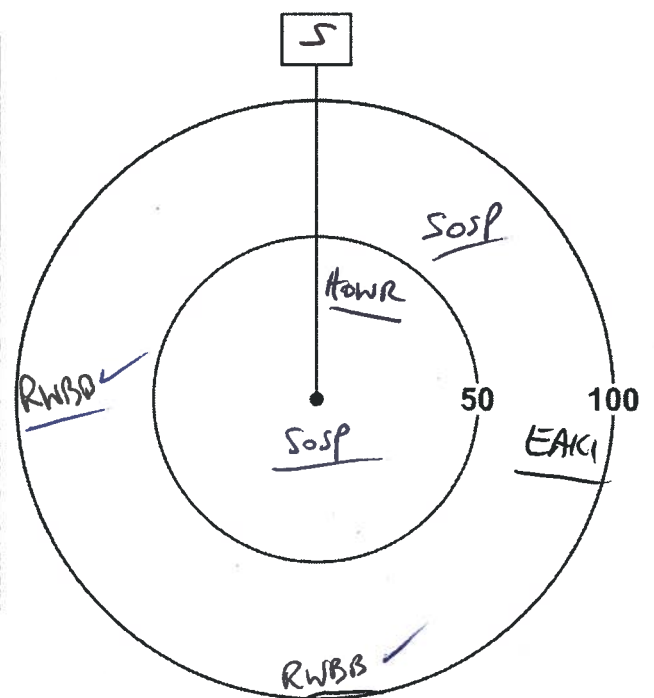
Station: P6

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 1045

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
SOSP	1				O
SOSP	1	1			O
HOWR	1				O
EAKI	1	1			O
RWBB	1	2			A



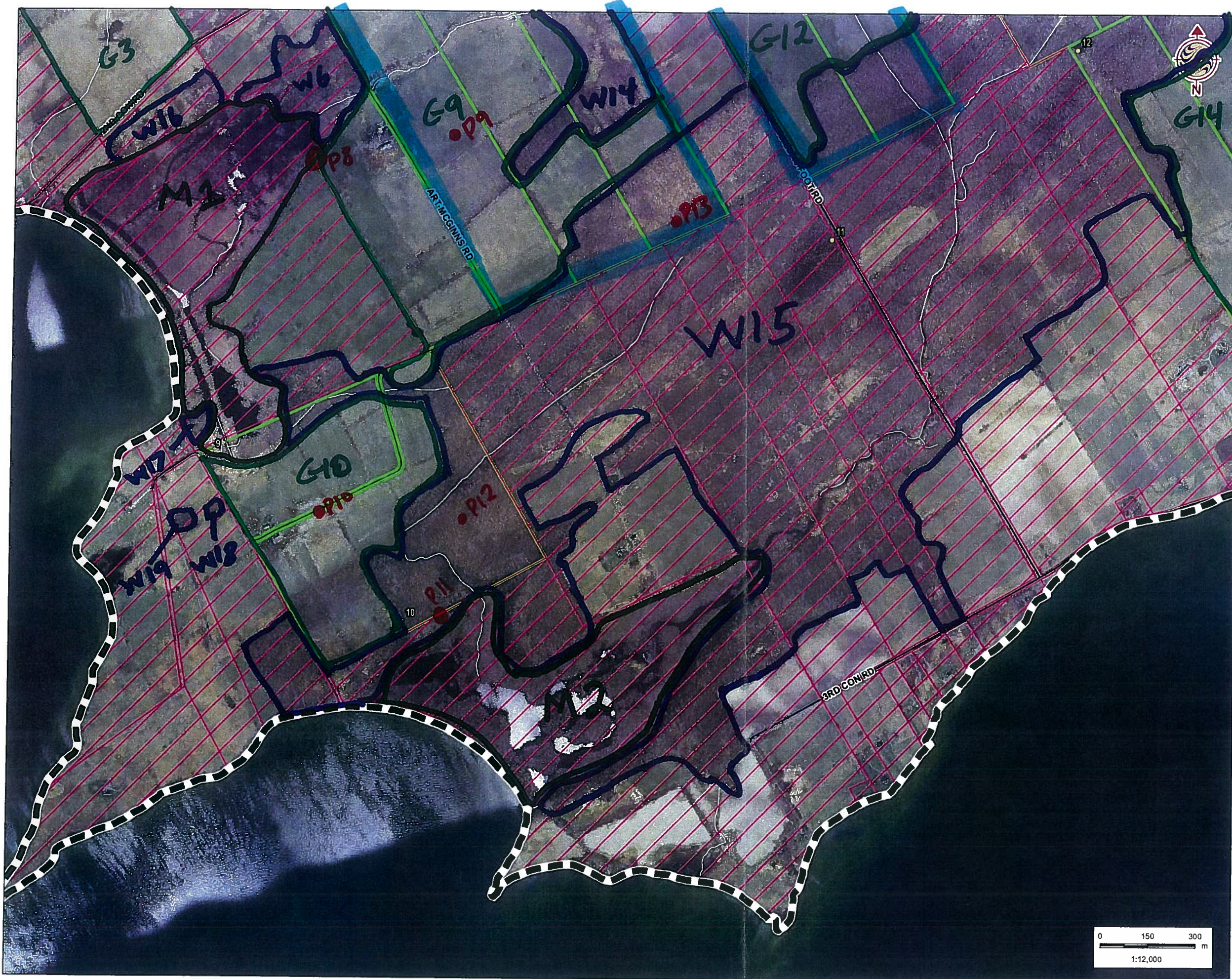
*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓).







Signature: [Signature]
(Field Personnel)

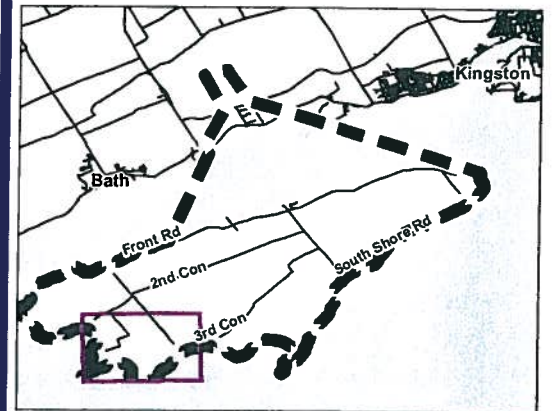
Signature: [Signature]
(Project Manager)

Page 4 of 4



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optional
-  Not Optional



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

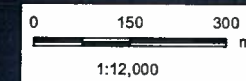
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

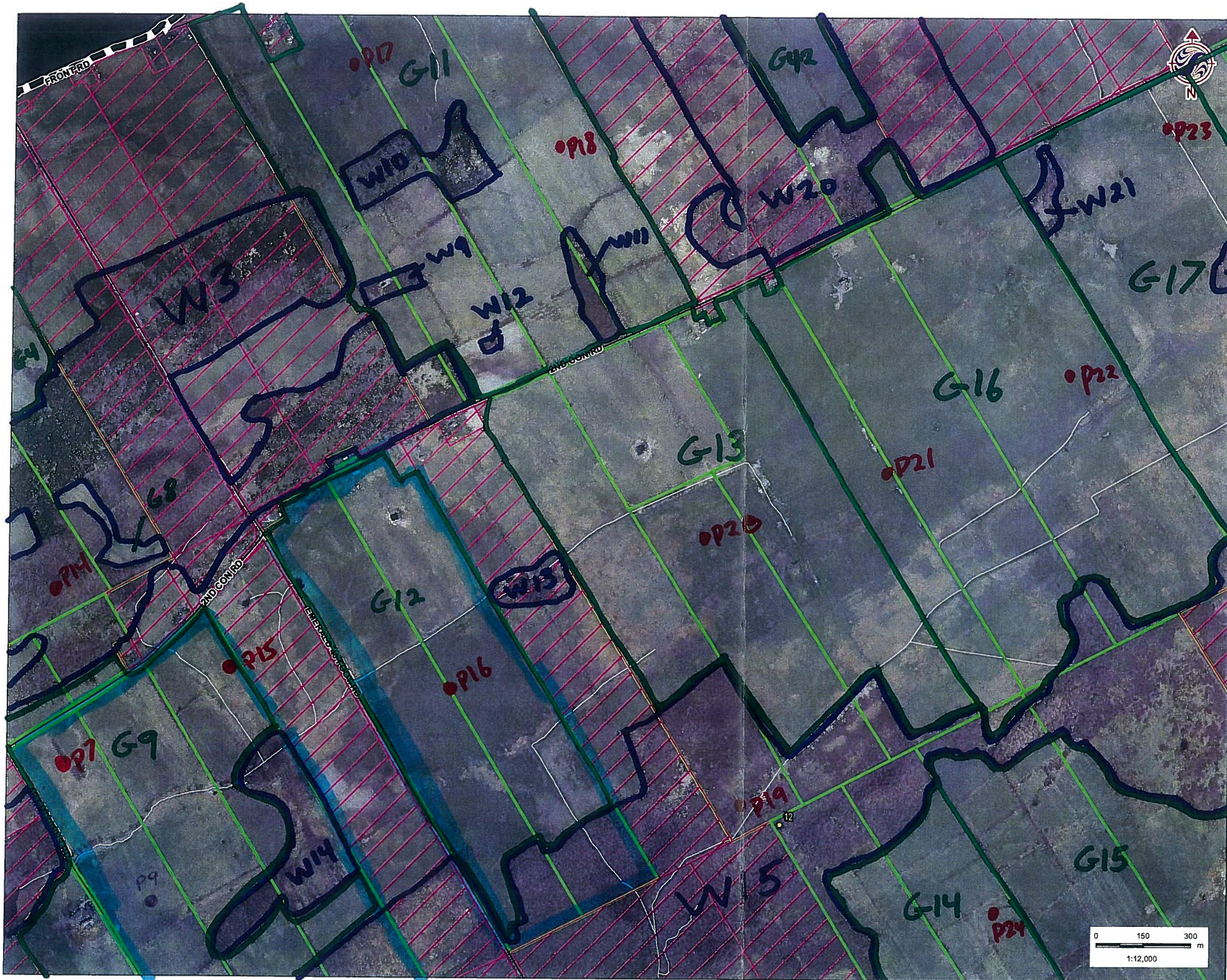
Figure No.

Tile 2

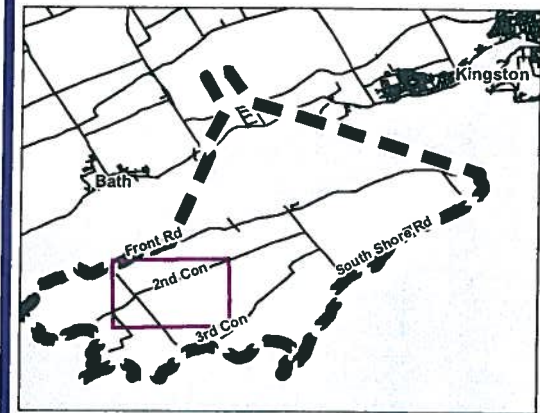
Title

FIELD MAPBOOK





- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008

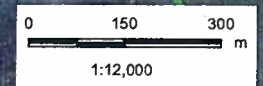


May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 3

Title
FIELD MAPBOOK





Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 14/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>10</u>	WIND: ^{mod} <u>NE 4</u>	CLOUD: <u>100</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>substantial rain</u>
---------------------	-------------------------	-------------------------------------	----------------------	------------------	--

Feature No.: G9 Habitat Type: _____ Time Start: 0516 Time End: 0722

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard <u>SH</u>	<u>H</u>	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern <u>SM</u>	<u>S</u>	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron	X	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † <u>A</u>	<u>A</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>SM</u>	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. <u>SM</u>	<u>S</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>SM</u>	<u>S</u>	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † <u>SM</u>	<u>S</u>	Bobolink † <u>SH</u>	<u>H</u>
Virginia Rail		Ea. Phoebe		European Starling <u>SH</u>	<u>H</u>	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † <u>CF</u>	<u>CF</u>
Killdeer		Ea. Kingbird † <u>SH</u>	<u>H</u>	Blue-wing. Wa. †		Co. Grackle	X
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	SH <u>H</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	<u>S</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	<u>P</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow <u>N</u>	<u>N</u>	Pine Wa. ‡		<u>C Merganser</u>	X
Mourn. Dove <u>SM</u>	<u>S</u>	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 4

Quality Control: This form is complete & legible

Signature: AW
 (Field Personnel)

Signature: Kurti
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W14 Habitat Type: _____ Time Start: 0614 Time End: 0650

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <i>SM</i>	<i>S</i>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <i>SM</i>	<i>S</i>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <i>SM</i>	<i>S</i>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. <i>SM</i>	<i>S</i>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † <i>SM</i>	<i>S</i>	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <i>SM</i>	<i>S</i>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <i>SM</i>	<i>S</i>	Rose-br. Grosbeak †	
Red-tailed Hawk <i>SH</i>	<i>H</i>	Willow Fly. † <i>SM</i>	<i>S</i>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. <i>SM</i>	<i>S</i>	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling <i>A</i>	<i>A</i>	Red-winged Bl. <i>SM</i>	<i>S</i>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † <i>SH</i>	<i>H</i>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe <i>DD</i>	<i>DD</i>	Warbling Vireo <i>SM</i>	<i>S</i>	Yellow Wa. <i>SM</i>	<i>S</i>	Baltimore Oriole † <i>SM</i>	<i>S</i>
Am. Woodcock <i>H</i>	<i>H</i>	Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <i>SH</i>	<i>H</i>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 4

Signature: _____
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: Karin
 (Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 14/11

Field Personnel: Alan Warmingto-

Weather Conditions:	TEMP (°C):	MOD WIND: <u>++</u>	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>10</u>	<u>NE 4</u>	<u>40</u>	<u>0</u>	<u>Substantial rain</u>

Feature No.: W15 Habitat Type: _____ Time Start: 0740 Time End: 818

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>SM</u>		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † <u>SM</u>	<u>S</u>	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <u>SM</u>	<u>S</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo <u>SM</u>	<u>S</u>	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay <u>SH</u>	<u>H</u>	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 4

Quality Control: This form is complete & legible

Signature: _____

AW

(Field Personnel)

Signature: _____

Kadrin

(Project Manager)

REV: 2011-05-27 / FORM 031

Jan 14/11

Feature No.: G12

Habitat Type: _____

Time Start: 0835

Time End: 0925

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	SH CF
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡	SH P	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	CF SM CF
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	CF CF
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	SH H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	SM S	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

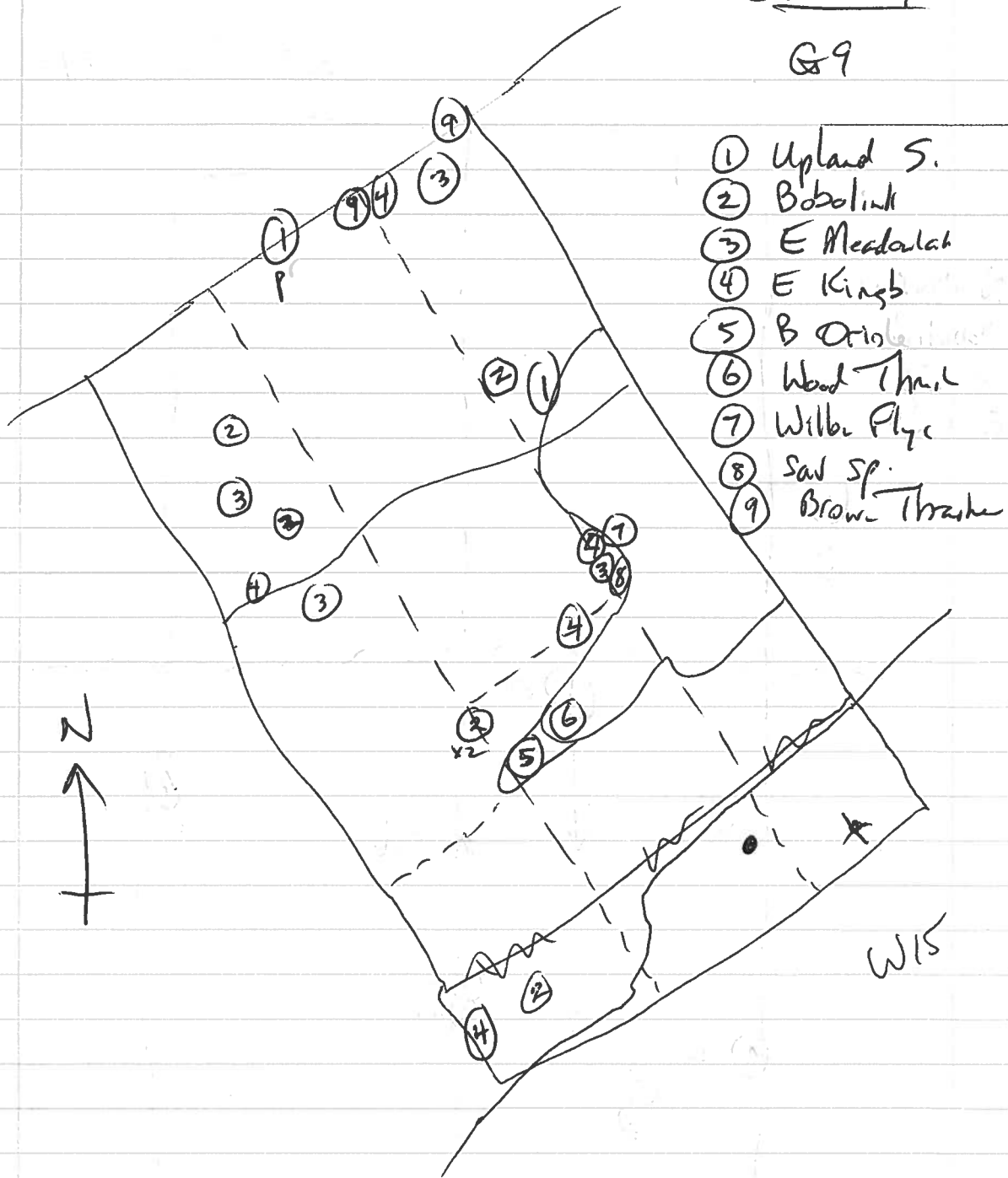
Pg. 4 of 4

Signature: [Signature]
(Field Personnel)

Quality Control: This form is complete & legible
Signature: [Signature]
(Project Manager)

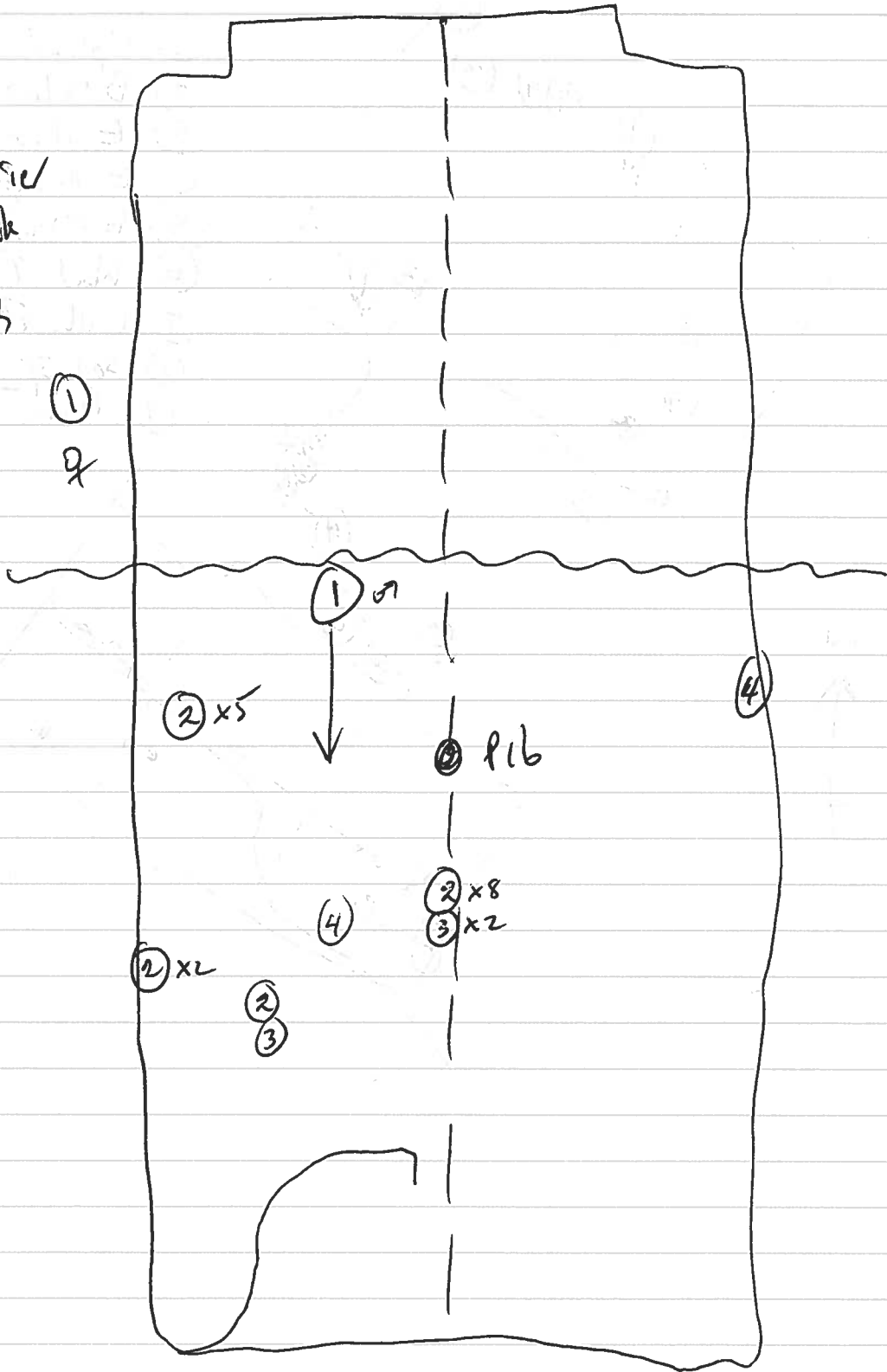
June 14/11

G9



612 June 14/11

- ① N Harrier
- 2 Bobolink
- 3 Saw Sp
- 4 E King





Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595

Project Name: Amherst

Date June 14/11

Field Personnel: Alan Wermington

Weather Conditions:	Temp: <u>10</u>	Wind: <u>Mod</u> <u>4</u>	Cloud: <u>100</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>substantial</u> <u>rain</u>
---------------------	-----------------	------------------------------	-------------------	---------------	---

GPS #: T__

Station: P7 / 216

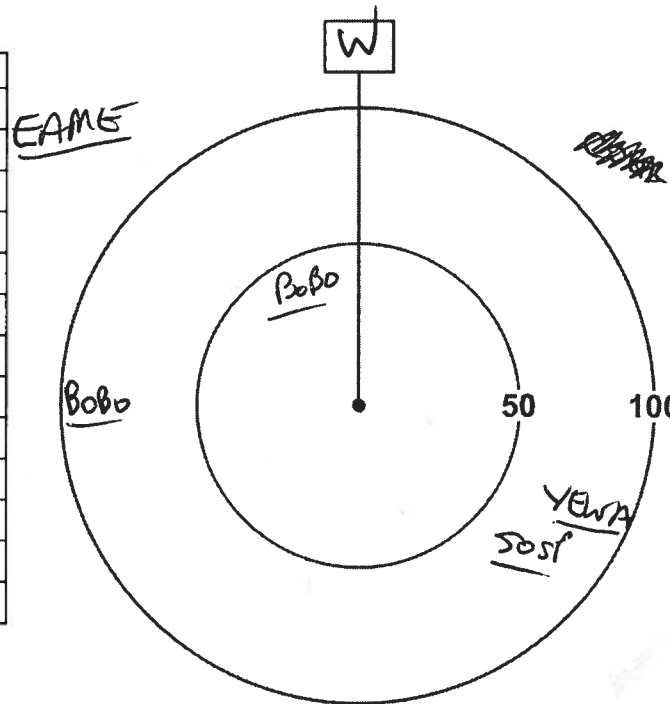
G9

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0525

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
MAU				<u>3</u>	<u>A</u>
BARS				<u>1</u>	<u>A</u>
YEW		<u>1</u>			<u>O</u>
EAME			<u>1</u>		<u>A</u>
COGR			<u>5</u>		<u>A</u>
AMGD				<u>1</u>	<u>A</u>
BITCO			<u>1</u>		<u>A</u>
SOSP		<u>1</u>			<u>A</u>
BOBO	<u>1</u>	<u>1</u>			<u>O</u>



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓).

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

June 14/11

G9

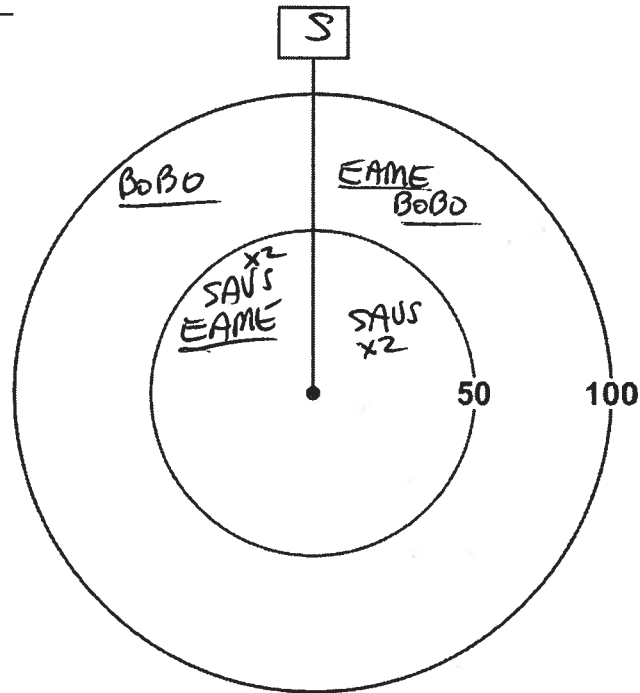
Station: P9 / 217

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0553

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EAME	1	1			G
COGR				1	A
BOBO		2			A
SAVS	4				O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P15 / 245

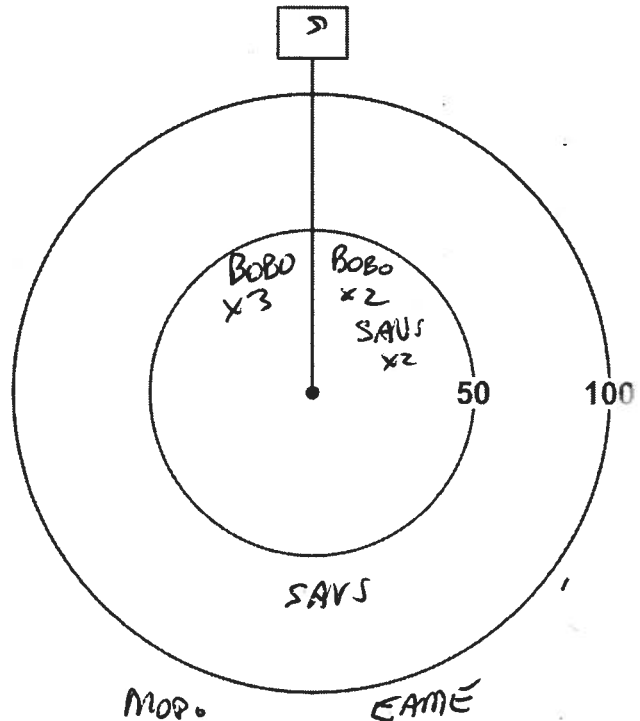
G9

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0700

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BOBO	1 3				A
BOBO	2				O
BARS				2	A
SAVS	2				A
MADO			1		A
SAVS		1			O
EAME			1		O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ().

Signature: [Signature] (Field Personnel)

Signature: _____ (Project Manager)

Page 2 of 3

June 14/11

W15

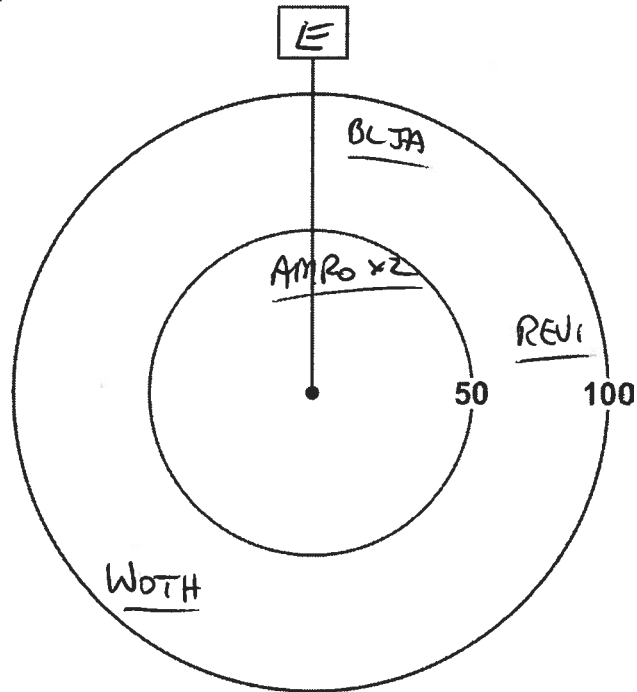
Station: P13 / 218

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0755

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
REVI		1			A
WOTH	1	1			O
AMRO	2				O
BLJA		1			A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P16 / 219

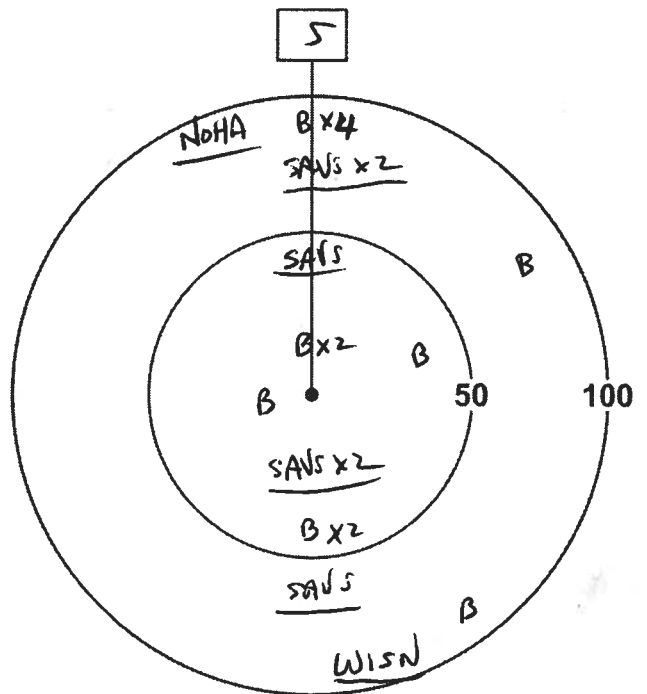
G12

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0857

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
WISN		1			B
NOHA		1			A
SANS	3	3			O
BOBO	6	6			O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep.

Quality Control: This form is complete () & legible ().

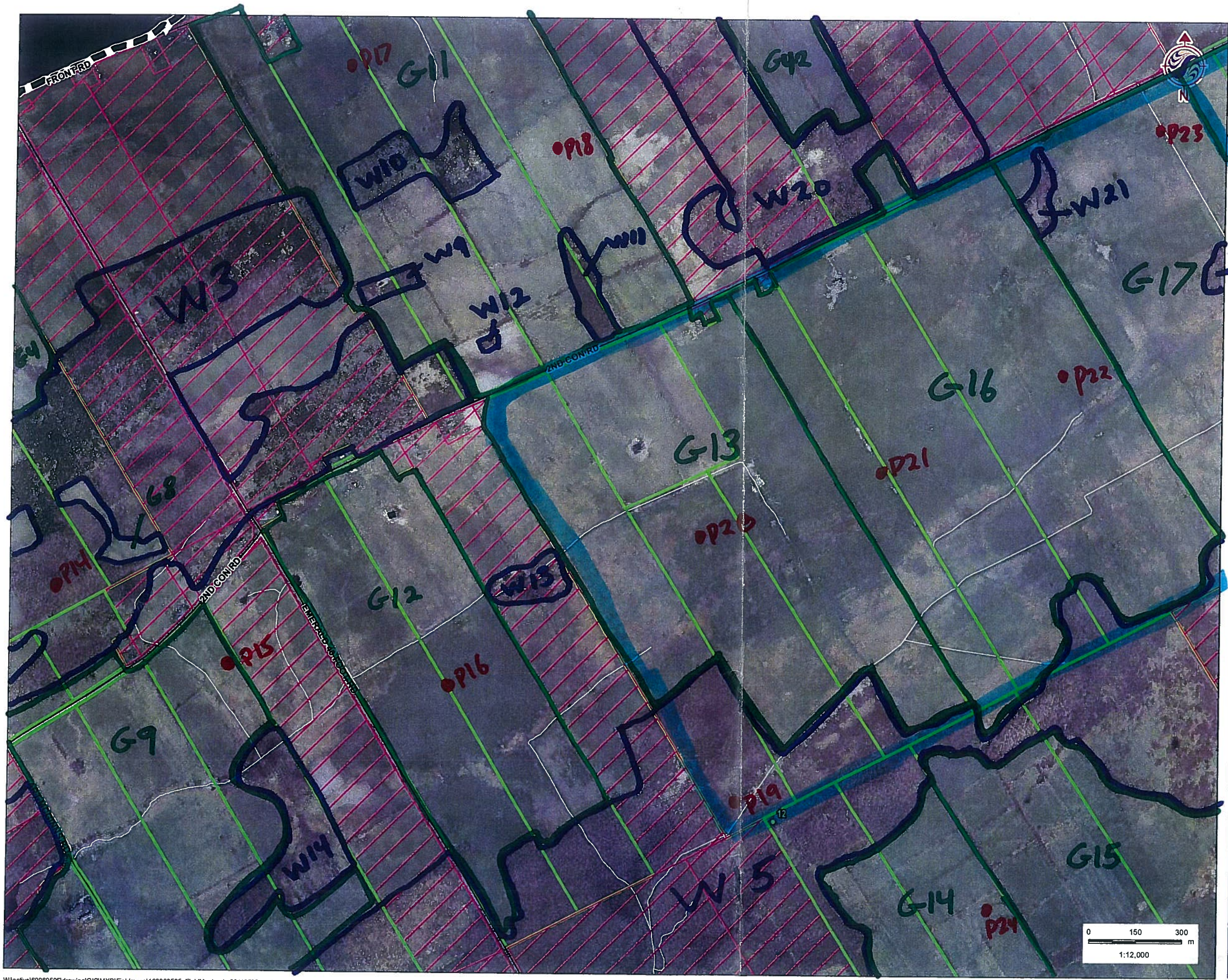
Signature: [Signature]

Signature: _____

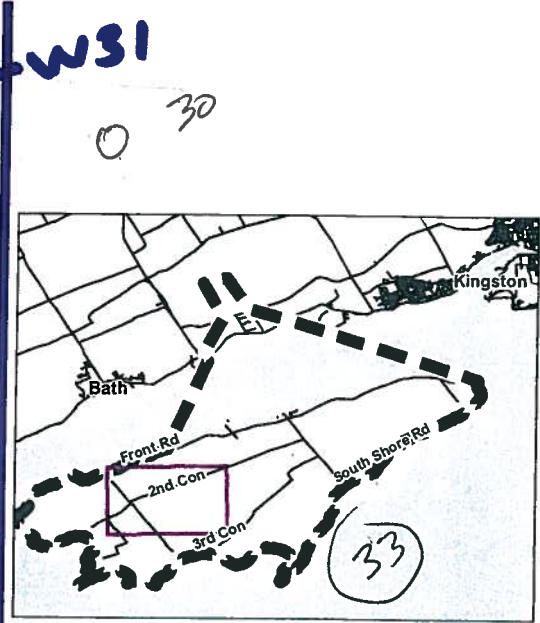
(Field Personnel)

(Project Manager)

Page 3 of 3



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

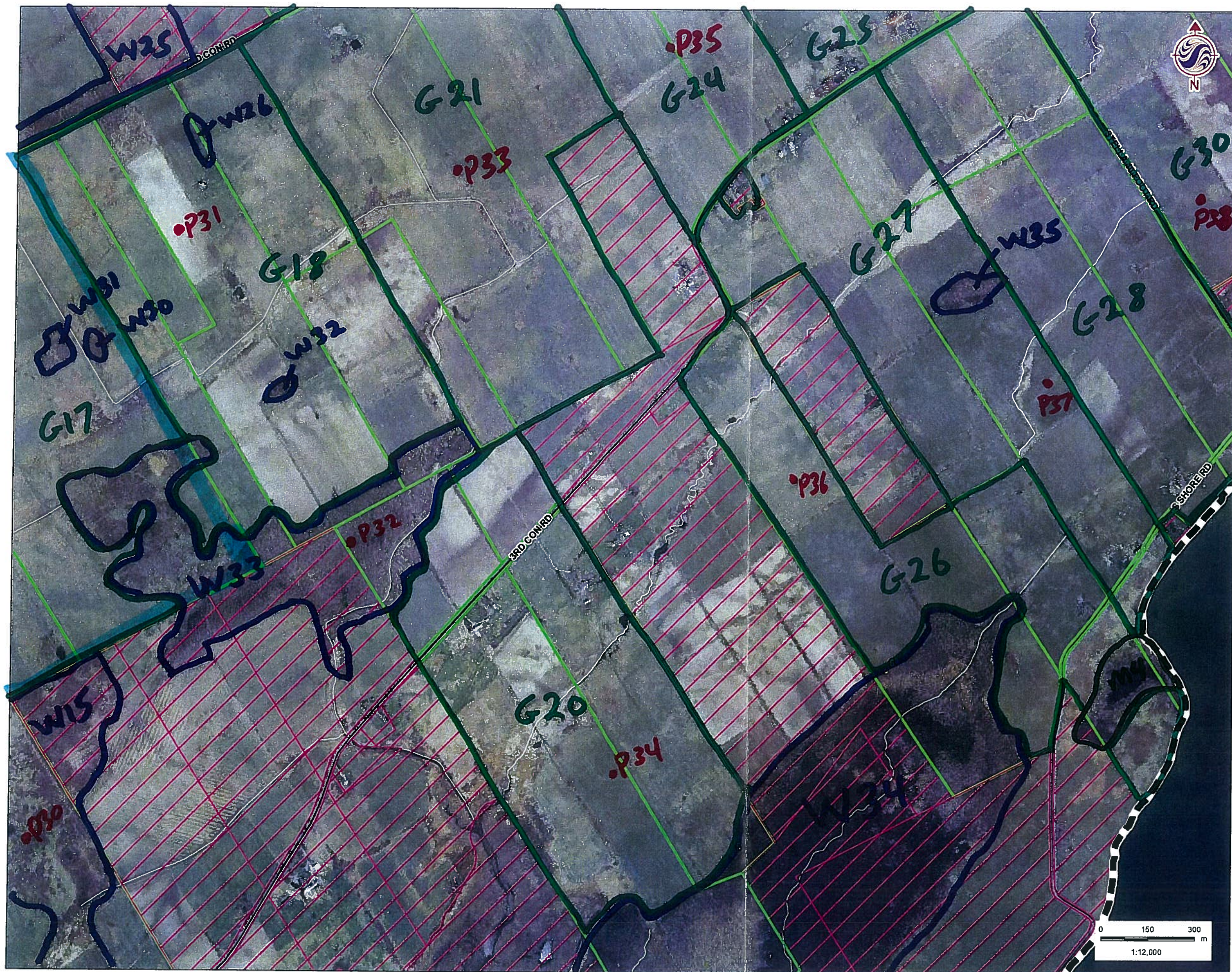
May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 3

Title
FIELD MAPBOOK





- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
 - Property Status**
 - Optional
 - Not Optional



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 6

Title
FIELD MAPBOOK





Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160 960 595

Project Name: Amherst

Date: June 17/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	13	SSE 2	100	0	0

Feature No.: G13 Habitat Type: _____ Time Start: 0530 Time End: 0720

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

0810 0905

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	SM S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron	X	Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	ACF CF
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	SM S
N. Harrier †‡	PH P	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	SM S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	P	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	X	Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †	SH H	Least Fly.		Br. Thrasher †		Bobolink †	PA A
Virginia Rail		Ea. Phoebe		European Starling	H H	Red-winged Bl.	A NY
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	SM S
Killdeer		Ea. Kingbird †	SH H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	SM CF	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	X	Blue Jay	SH H	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	X	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	SH H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 9

Quality Control: This form is complete & legible

Signature: AW
(Field Personnel)

Signature: Kathie
(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: G16 Habitat Type: _____ Time Start: 1002 Time End: 1035

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P FY
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡	P	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	P P
Virginia Rail		Ea. Phoebe		European Starling	FY	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	A A	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	X	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 9

Signature: AW
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Karin
(Project Manager)



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 17 / 11

Field Personnel: Alan Wornington

Weather Conditions:	TEMP (°C): <u>16</u>	WIND: <u>SSE 1</u>	CLOUD: <u>100</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: W15 Habitat Type: _____ Time Start: 0710 Time End: 0810

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>SM</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡ <u>SM</u>	<u>S</u>	B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery <u>P</u>	<u>P</u>	Song Sp. <u>A</u>	<u>A</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. <u>SM</u>	<u>S</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † <u>SM</u>	<u>S</u>	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † <u>SM</u>	<u>S</u>	Am. Robin <u>SM</u>	<u>S</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly. <u>SM</u>	<u>S</u>	Gray Catbird <u>SM</u>	<u>S</u>	Rose-br. Grosbeak † <u>H</u>	<u>H</u>
Red-tailed Hawk		Willow Fly. † <u>SM</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. <u>SM</u>	<u>S</u>	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling <u>H</u>	<u>H</u>	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. <u>P</u>	<u>P</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole † <u>SM</u>	<u>S</u>
Am. Woodcock <u>H</u>	<u>H</u>	Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <u>P</u>	<u>P</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow <u>P</u>	<u>P</u>	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 9

Quality Control: This form is complete & legible .

Signature: AW
 (Field Personnel)

Signature: Kathie
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W13

Habitat Type: _____

Time Start: 0845

Time End: 0852

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo. <u>SH</u>	<u>H</u>	Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak † <u>SM</u>	<u>S</u>
* Red-tailed Hawk	<u>A</u>	Willow Fly. † <u>SM</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>SM</u>	<u>S</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Red-tailed Hawk
 * nest may not be in this woodlot

Pg. 3 of 9

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

(Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 17/11

Field Personnel: Alan Warming

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>S (1)</u>	<u>80%</u>	<u>0</u>	<u>0</u>

Feature No.: G17 Habitat Type: _____ Time Start: 0925 Time End: 1002

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

1035
1120

1058
1207

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant	P	Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡†	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡†	
Pied-b. Grebe		Whip-poor-will ‡†		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	DD
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	A SM FY
N. Harrier ‡†	H H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	SM S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk ‡†		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	A A
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S S
Killdeer		Ea. Kingbird †	H A	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	X	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡†			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 9

Signature: _____

AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Kate

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W31 Habitat Type: _____ Time Start: 1150 Time End: 1157

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <i>SM</i>	<i>S</i>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <i>SM</i>	<i>S</i>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <i>SM</i>	<i>S</i>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. <i>SM</i>	<i>S</i>	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <i>SM</i>	<i>S</i>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo <i>SM</i>	<i>S</i>	Yellow Wa. <i>SM</i>	<i>S</i>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Signature: AN
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin Sun
 (Project Manager)



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 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 17/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>23</u>	<u>5 (1)</u>	<u>90</u>	<u>0</u>	<u>0</u>

Feature No.: W30 Habitat Type: _____ Time Start: 1132 Time End: 1150

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	SM
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	SM
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	SH	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	SM	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock	SH	Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 9

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: [Signature]
 (Project Manager)

Feature No.: W33 Habitat Type: _____ Time Start: 1058 Time End: 1120

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du. <u>H</u>	<u>H</u>	Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>SM</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	<u>A</u>	Willow Fly. † <u>SM</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. † <u>SM</u>	<u>S</u>	Br. Thrasher †	<u>A</u>	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing <u>SH</u>	<u>H</u>	Ea. Meadowlark †	
Killdeer		Ea. Kingbird † <u>SH</u>	<u>H</u>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo <u>SM</u>	<u>S</u>	Yellow Wa. <u>SM</u>	<u>S</u>	Baltimore Oriole † <u>SH</u>	<u>H</u>
Am. Woodcock		Red-eyed Vireo <u>SM</u>	<u>S</u>	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <u>SH</u>	<u>H</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow <u>SH</u>	<u>H</u>	Pine Wa. ‡			
Mourn. Dove <u>SH</u>	<u>H</u>	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 6 of 9

Signature: [Signature]
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: [Signature]
 (Project Manager)



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 17/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>23</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>0</u>

Feature No.: W21 Habitat Type: _____ Time Start: 1207 Time End: 1215

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners in Flight
- ‡ Area Sensitive Species

Thrasher pair on road @ W21

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	A
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	P	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	SM	Yellow Wa.	SM	Baltimore Oriole †	S
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	H P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 9

Quality Control: This form is complete & legible .

Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

Feature No.: G17

Habitat Type: _____

Time Start: 0925

Time End: 1002

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P DD
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡ H		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † A	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † S	
Killdeer		Ea. Kingbird † Y		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. S		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow XX X		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. ___ of ___

Quality Control: This form is complete & legible .

Signature: _____

Signature: _____

(Field Personnel)

(Project Manager)

REV: 2011-05-27 / FORM 031

(1)



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595

Project Name: Amherst

Date Jun 17/11

Field Personnel: Alan Wormington

Weather Conditions:	Temp: <u>13</u>	Wind: <u>SSE 2</u>	Cloud: <u>100</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
----------------------------	-----------------	--------------------	-------------------	---------------	------------------------------

GPS #: T__

G16

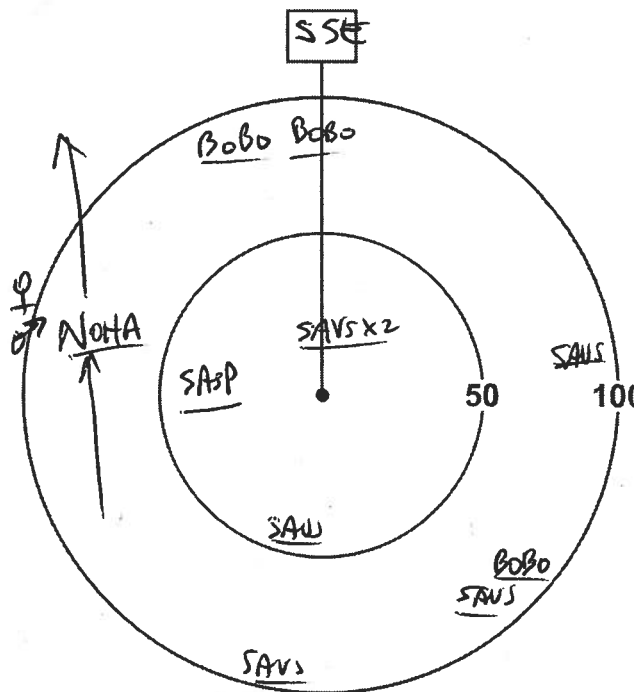
Station: P21 / 224

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0611

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RBGM				1	B
EUST				1	A
NOHA		2			A
SASP	4	3			O
BOBO		3			O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

(2)

✓ Station: P19/222

(W15)

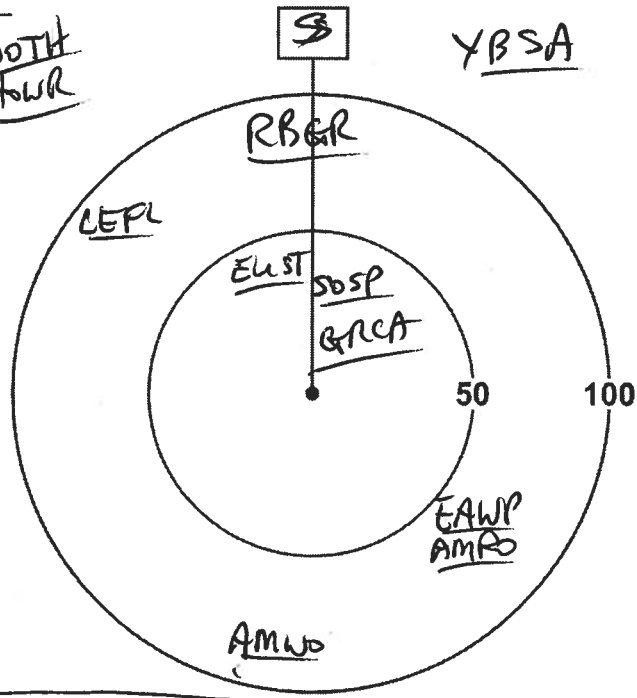
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0733

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
YBSA					A
WOTH					O
HWR					O
LEFL					O
RBGR					A
EUST					A
SOSP					O
GRCA					O
EAWP					A
AMRO					A
AMWO					O

WOTH
HWR



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P20/221

(G13)

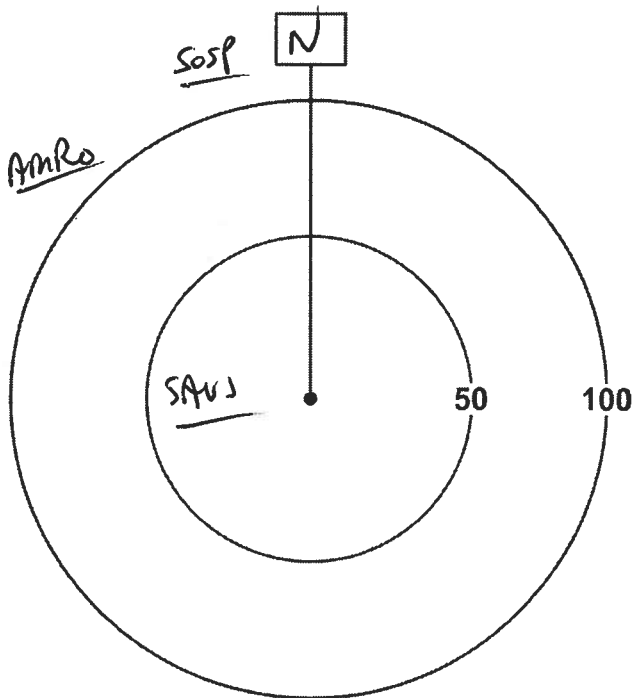
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0826

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
SAVS					O
BARB					A
SOSP					O
AMRO					O
EAME					A

Moderately grazed
most grasses, some
chewed down short



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible () ✓

Signature: Am (Field Personnel)

Signature: Verthi Sun (Project Manager)

3

G17

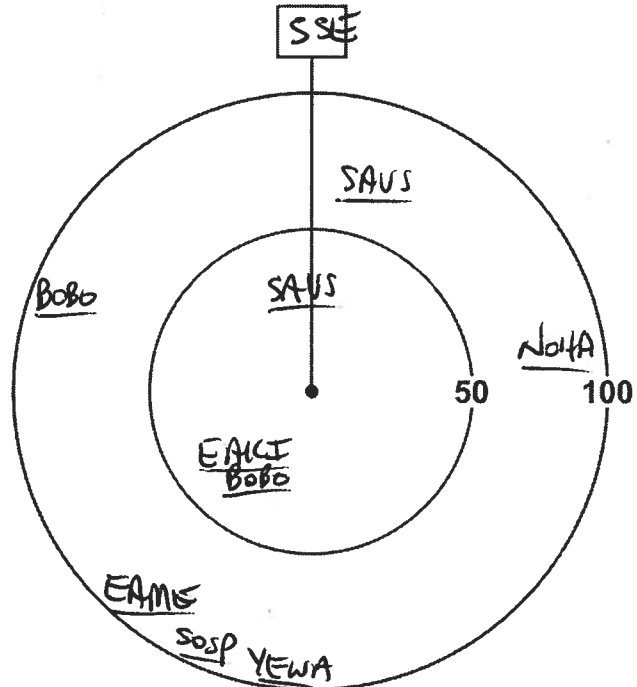
Station: P23/226

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0935

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EAME		1			0
EAKI	1				0
SAVS	1	1			0
Bobo				1	A
YAWA		1			0
NOTA		1			0
Bobo	1	1			0
SOSP		1			0



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

G16

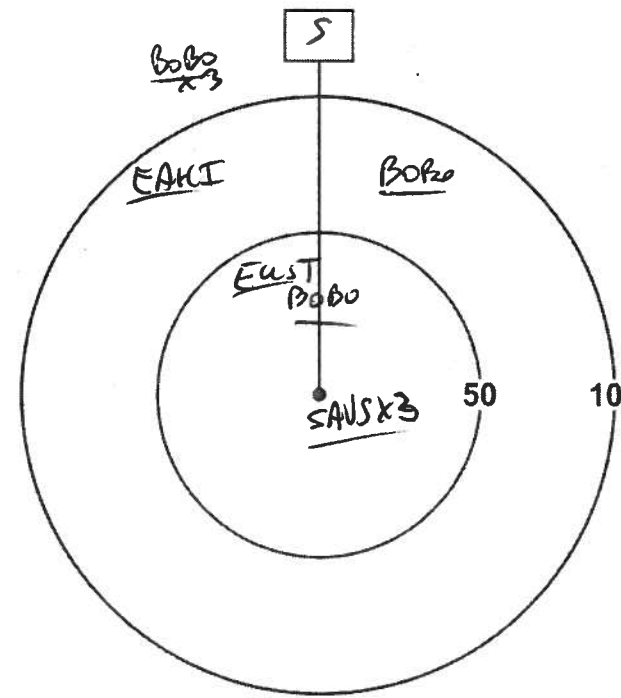
Station: P22/223

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 1010

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
Bobo	1	1	3		0
EUST	2				0
SAVS	3				0
EAKI		1			0



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep


Quality Control: This form is complete () & legible ()

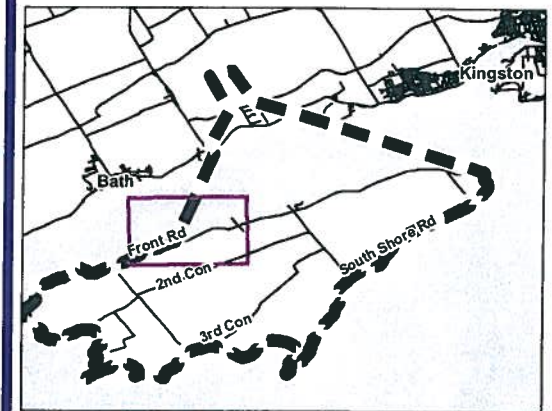
Signature: AW (Field Personnel)

Signature: Kathie (Project Manager)



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

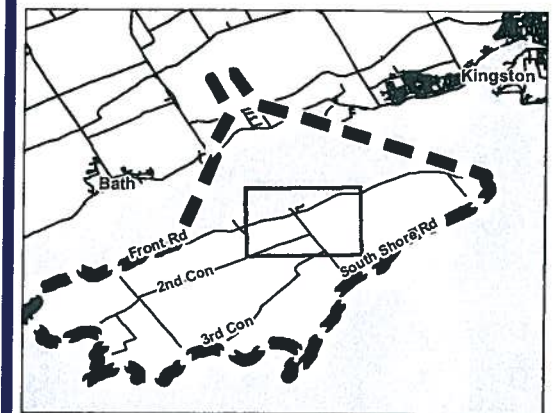
Tile 4

Title

FIELD MAPBOOK



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
 - Property Status**
 - Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008

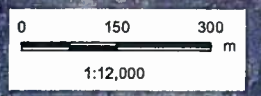


May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 5

Title
FIELD MAPBOOK





Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 18/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>13</u>	WIND: <u>0</u>	CLOUD: <u>30 light fog</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	-------------------	-------------------------------	------------------	-----------------------------------

Feature No.: G23 Habitat Type: _____ Time Start: 0518 Time End: 0612 at start

Record location of all significant species on site map.

* well off to E, maybe 1 km.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard <u>SH</u>	<u>H</u>	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
* Am. Bittern	<u>SM</u>	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † <u>SM</u>	<u>S</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>SM</u>	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>SM</u>	<u>S</u>	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † <u>SH</u>	<u>H</u>	Bobolink †	<u>CF</u>
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	<u>FY</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † <u>SM</u>	<u>S</u>
Killdeer		Ea. Kingbird † <u>P</u>	<u>P</u>	Blue-wing. Wa. †		Co. Grackle	<u>X</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>SM</u>	<u>S</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	<u>X</u>	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow <u>A</u>	<u>A</u>	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <u>P</u>	<u>P</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	<u>SH</u>	Pine Wa. ‡			
Mourn. Dove <u>SM</u>	<u>S</u>	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 8

Quality Control: This form is complete & legible .

Signature: AW
(Field Personnel)

Signature: Kati
(Project Manager)

Feature No.: W24 Habitat Type: _____ Time Start: 0612 Time End: 0637

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	A
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird SM	S	Rose-br. Grosbeak † SM	S
Red-tailed Hawk		Willow Fly. † SM	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † SH	H	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling SH	H	Red-winged Bl. SM	S
Sora		Gr. Crested Fly.		Cedar Waxwing SH	SH	Ea. Meadowlark †	
Killdeer		Ea. Kingbird † SH	H	Blue-wing. Wa. †		Co. Grackle SH	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. P	P	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart. SH	S	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Robert J. [unclear]

Pg. 2 of 8

Signature: [Signature]
 (Field Personnel)

Quality Control: This form is complete & legible .

Signature: [Signature]
 (Project Manager)



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 18 / 11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	18	0	0	0	0

Feature No.: W29 Habitat Type: _____ Time Start: 0712 Time End: 0724

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <i>SM</i>	<i>S</i>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † <i>SM</i>	<i>S</i>
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † <i>SM</i>	<i>S</i>	Am. Robin <i>P</i>	<i>P</i>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <i>SM</i>	<i>S</i>	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling <i>P</i>	<i>P</i>	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole † <i>SM</i>	<i>S</i>
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	<i>A</i>	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 8

Quality Control: This form is complete & legible

Signature: AW

Signature: Katrin

(Field Personnel)

(Project Manager)

Feature No.: W28

Habitat Type: _____

Time Start: 0737

Time End: 0750

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren SM	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. A	A
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † SM	S	Am. Robin A	NE	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. SM	S
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo SM	S	Yellow Wa. SM	S	Baltimore Oriole † SM	S
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay P	P	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow P	P	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 8

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160 960 595

Project Name: Amherst

Date: June 18/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>0</u>

Feature No.: G22 Habitat Type: _____ Time Start: 0750 Time End: 0920

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	<u>SA</u>
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † <u>SM</u>	<u>S</u>
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † <u>P</u>	<u>P</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. † <u>SH P</u>	<u>P</u>
Osprey		Hairy Wo.		Veery		Song Sp. <u>P</u>	<u>P</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † <u>SM</u>	<u>S</u>	Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † <u>SM</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † <u>SM</u>	<u>J</u>	Bobolink † <u>P</u>	<u>P</u>
Virginia Rail		Ea. Phoebe		European Starling	<u>FY</u>	Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † <u>SH</u>	<u>H</u>	Blue-wing. Wa. †		Co. Grackle <u>SH</u>	<u>S</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	<u>FY</u>
Upla. Sandpiper ‡	<u>X</u>	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>SM</u>	<u>J</u>	Baltimore Oriole †	<u>SA</u>
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <u>P</u>	<u>P</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	<u>A</u>	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 8

Signature: AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: Kate

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W27 Habitat Type: _____ Time Start: 0827 Time End: 0848

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners in Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat SM	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren SM	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SM	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly. SM	S	Gray Catbird SM	S	Rose-br. Grosbeak † SM	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. SM	S
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole † SM	S
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

~~ET 10/14/02~~

Pg. 6 of 8

Signature: AW
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Karin
(Project Manager)



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 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 18 / 11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>NE ①</u>	<u>20</u>	<u>0</u>	<u>0</u>

Feature No.: W25 Habitat Type: _____ Time Start: 1008 Time End: 1035

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>SM</u>	<u>S</u>	Eastern Towhee † <u>SM</u>	<u>S</u>
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>SM</u>	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. <u>SM</u>	<u>S</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>SM</u>	<u>S</u>	Rose-br. Grosbeak † <u>SM</u>	<u>S</u>
Red-tailed Hawk		Willow Fly. † <u>SM</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle <u>A</u>	<u>A</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>SM</u>	<u>S</u>	Baltimore Oriole † <u>SM</u>	<u>S</u>
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay <u>H</u>	<u>H</u>	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 8

Quality Control: This form is complete & legible

Signature: Alan Wormington
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: G19 Habitat Type: _____ Time Start: 0942 Time End: 1019

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

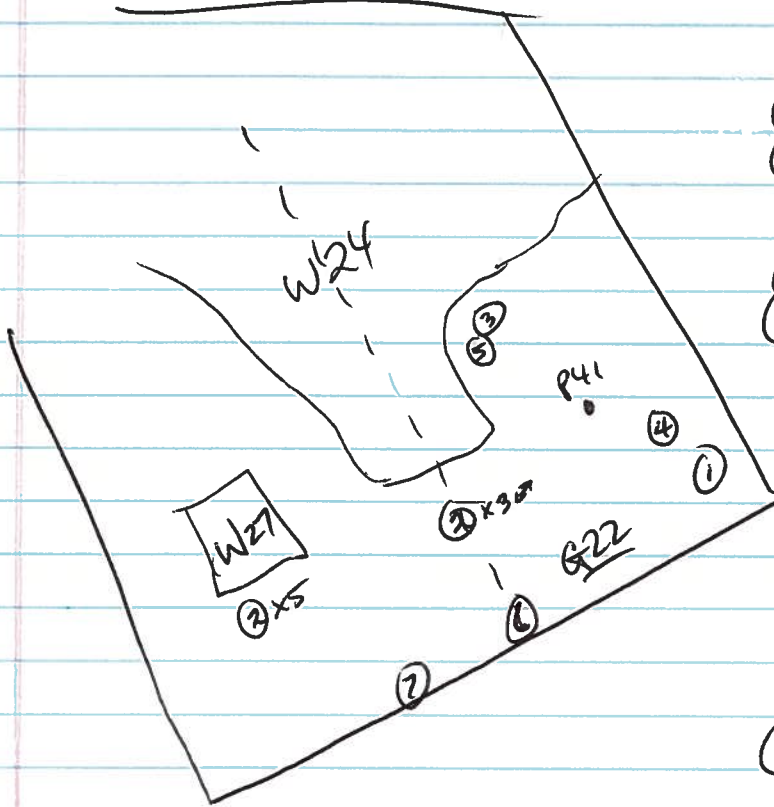
Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	CI	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	CF
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing	FY	Ea. Meadowlark †	S
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	A	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 8 of 8
 Signature: [Signature]
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: [Signature]
 (Project Manager)

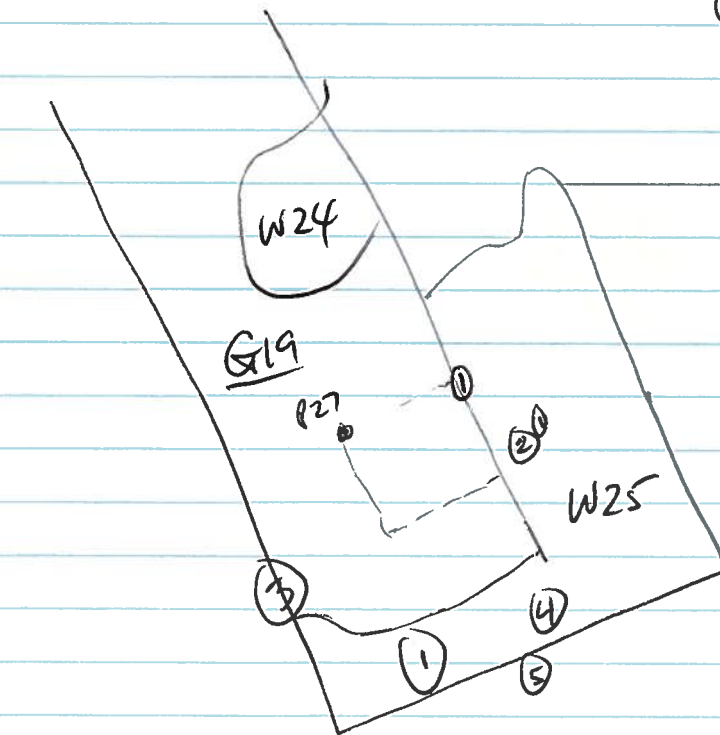
Q22 - June 18/11 - Day 6



- ① Grasshopper Sparrow ♀
 - ② Bobolink
 - ③ Field Sp ♂
 - ④ Willow Flyc. ♂
 - ⑤ Br Thrasher ♂
 - ⑥ Pewee (treeed hedgerow) ♂
- W24 0827-0825 (Send)

EAST NY
RBR GR ♂
TV SHP

- ⑦ Saw Sparrow



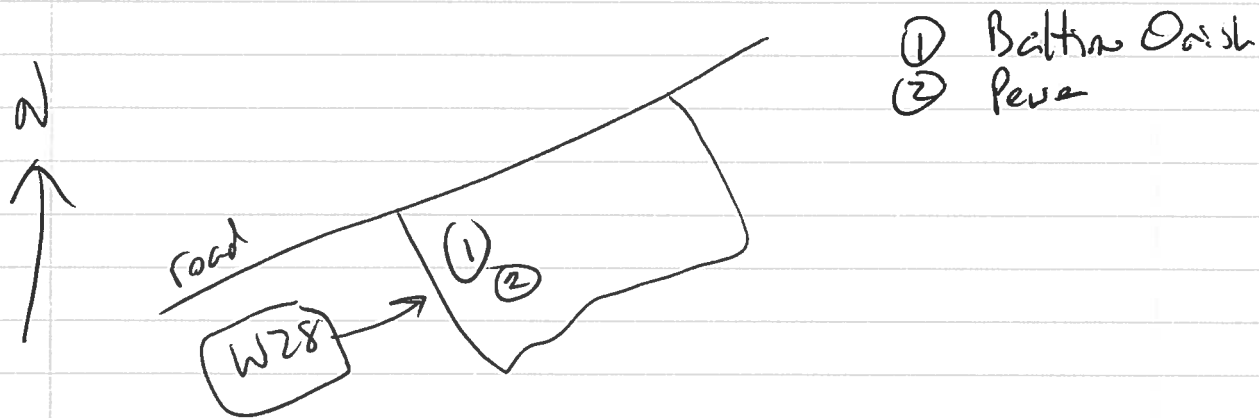
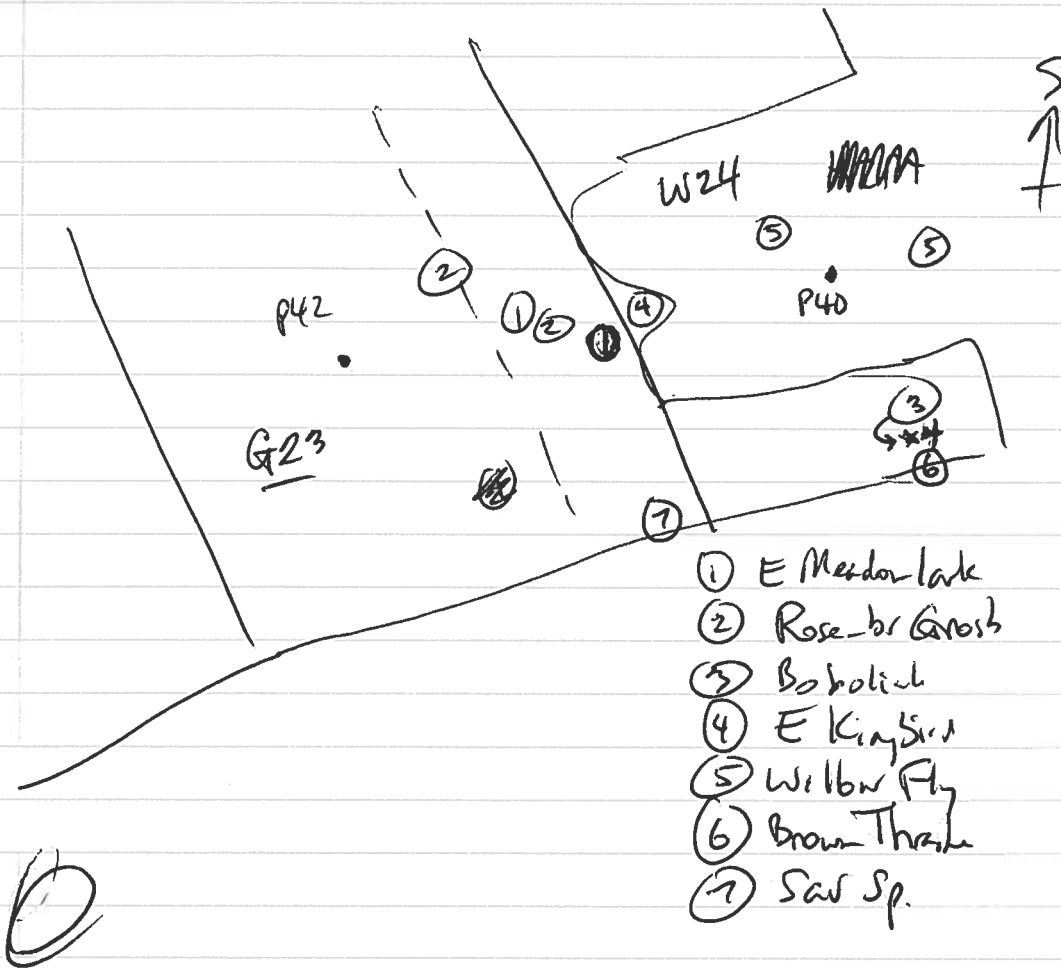
- ① Willow Flycatcher ♂
- ② E Towhee
- ③ E Meadowlark
- ④ B Oriole
- ⑤ Rose-br Grosk.

June 18/11

~~Q22~~
150

①

June 18/11 - Day 6





Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Stantec

Project Number 160960595 Project Name: Amherst
Date June 18/11 Field Personnel: Alan Warmington

Weather Conditions:	Temp: <u>13</u>	Wind: <u>0</u>	Cloud: <u>30</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
---------------------	-----------------	----------------	------------------	---------------	------------------------------

(light fog)

GPS #: T__

G23

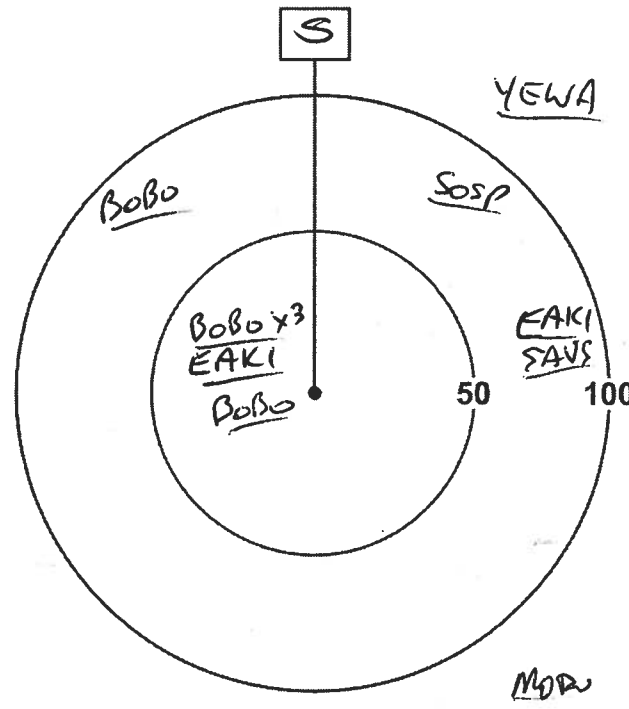
Station: P42 / 229

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0530

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
CoGR				1	A
SAVS		1			O
Bobo	3				A
RBGU				1	B
YEWA			1		O
SOSP		1			O
EAKI	1	1			O
Bobo	1	1			O
MOBO			1		O



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓).
Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)



Station: P40 / 231

W24

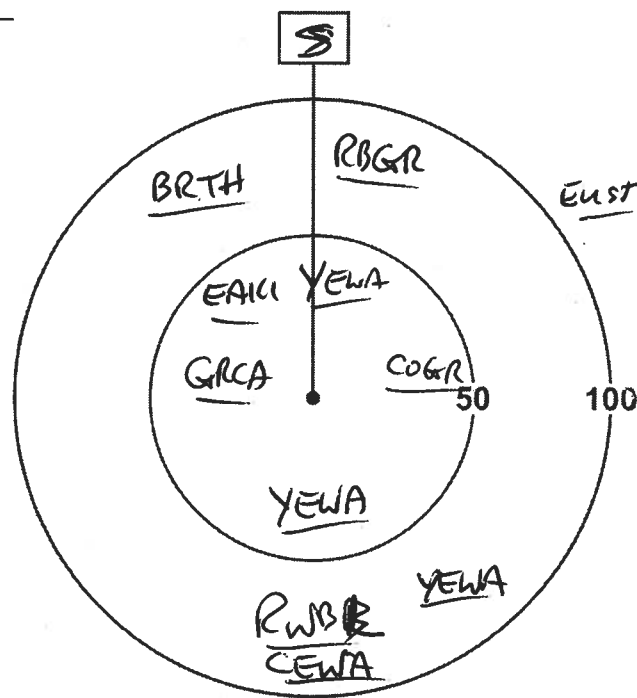
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0616

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BRTH		1			O
GREY	1				O
RBGR		1			O
YAWA	2	1			O
RWBL		1			O
EUST			1		A
CEWA		1			O
COGR	1				A
EACI	1				O
PUMA				1	A

Way



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep



Station: P41 / 228

G22

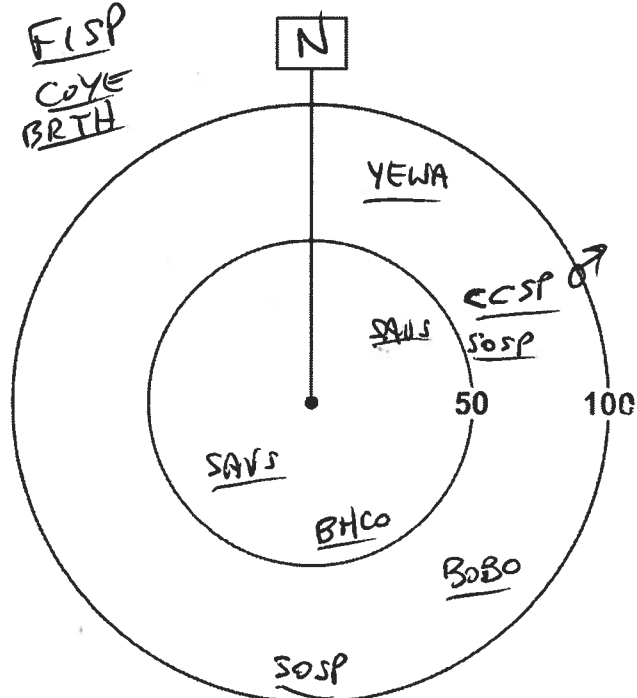
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0808

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
CCSP		1			O
SAVS	2				O
BHCO	1				O
TRES				1	A
COGR				3	A
EUST				1	A
FISP			1	1	O
COYE			1		O
BRTH			1		O
YAWA		1			O
SOSP		2			O
BOBO		1			O

FISP
COYE
BRTH



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓).

Signature: AW (Field Personnel)

Signature: Kadi Sun (Project Manager)

Station: P39/297

(WAZ) G22

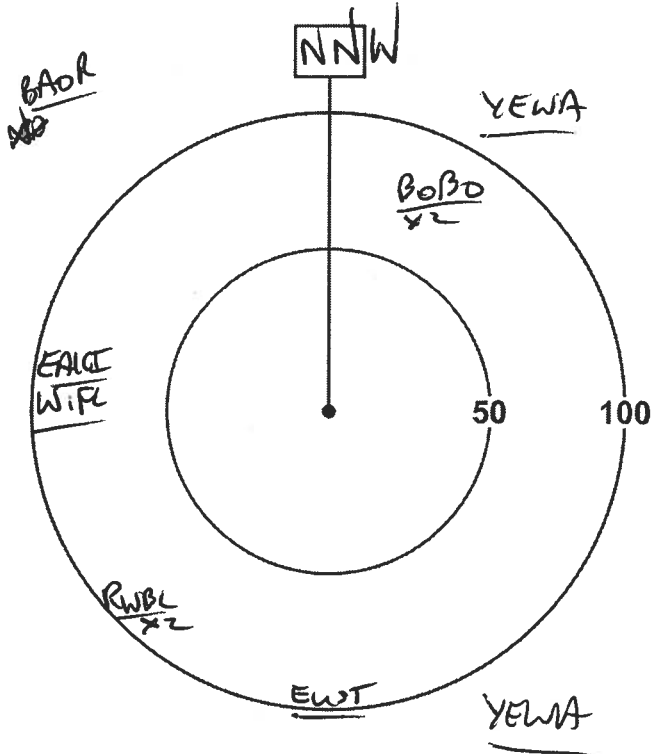
Mostly tall rank grass,
Some clover

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0857

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RWBL		2			O
BOBO		2			A
BOBO				1	A
YEWA			2		O
BAOR			1		O
EAKI		1			A
WIFL		1			A
EUST		1			O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P27/230

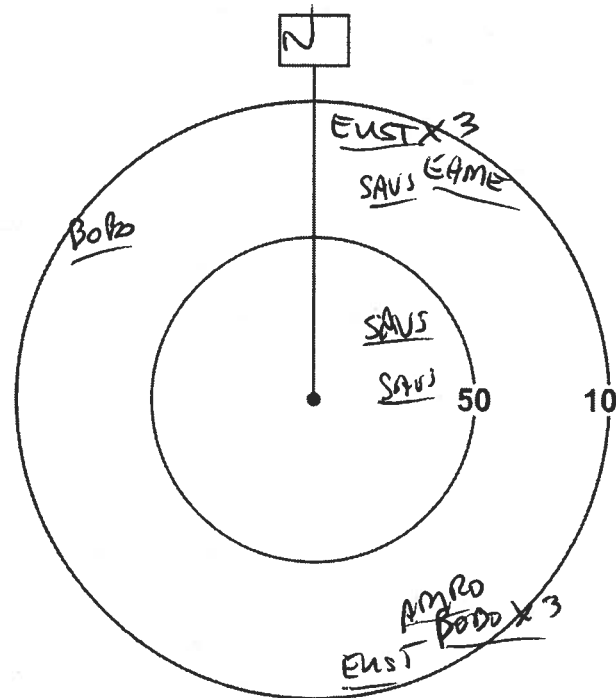
(G19)

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0955

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
SAVS	2	1			O
PRES				1	A
EAME		1			A
BOBO		4			A
AMRO		1			O
EUST		4			A

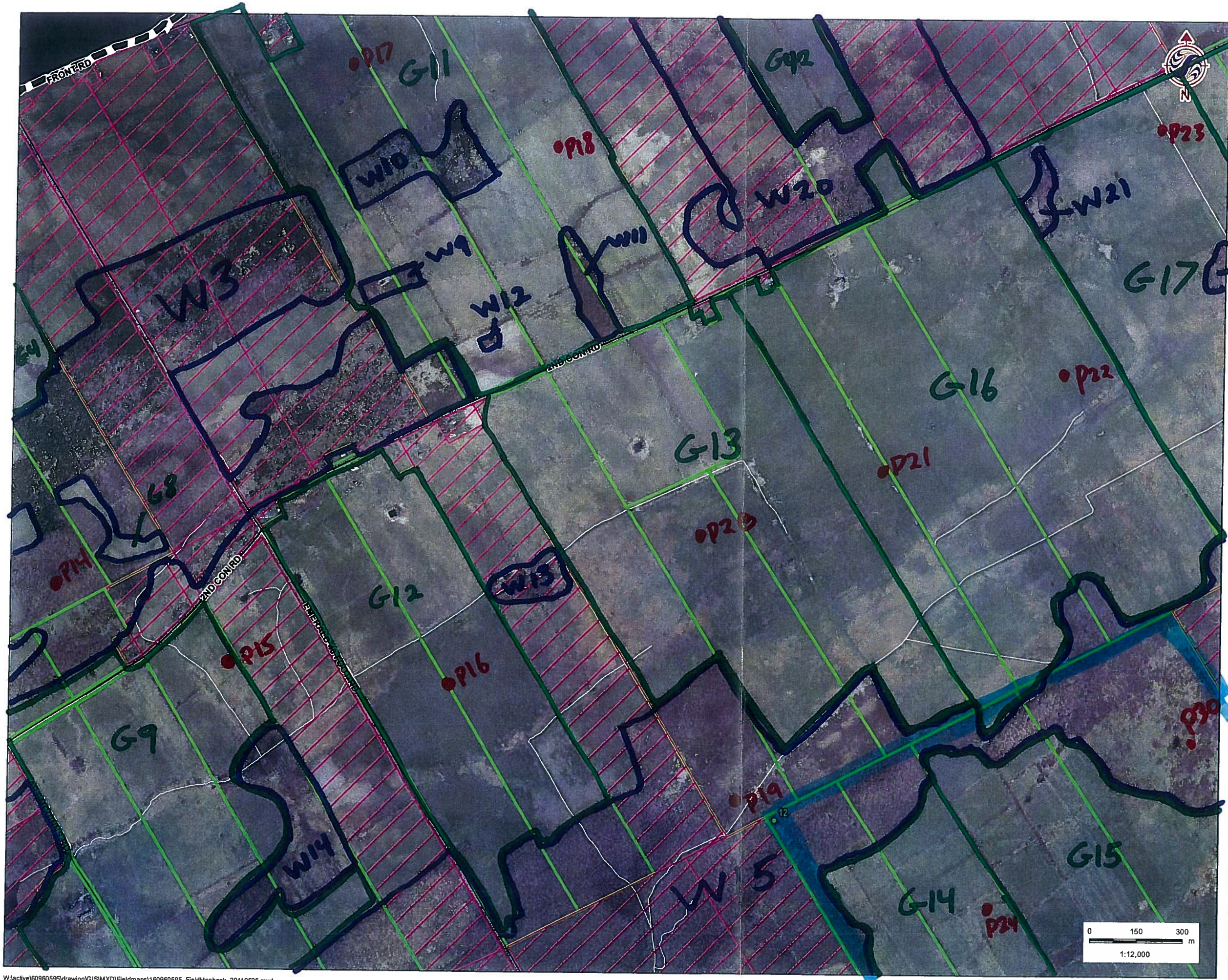


*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ().

Signature: Am (Field Personnel)

Signature: [Signature] (Project Manager)

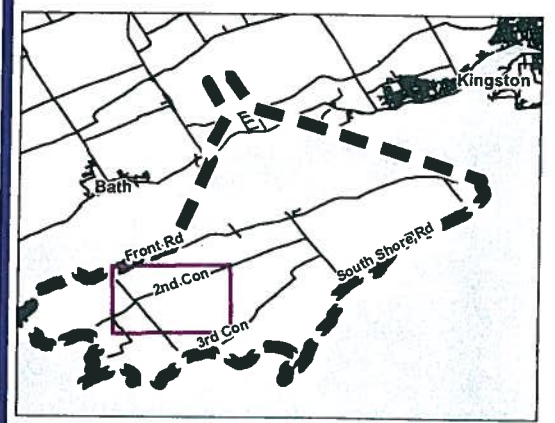


Legend

- Study Area
- Road
- Watercourse
- Amphibian Station

Property Status

- Optional
- Not Optional



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



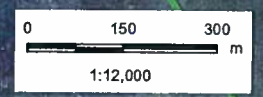
Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT







Figure No.
Tile 3

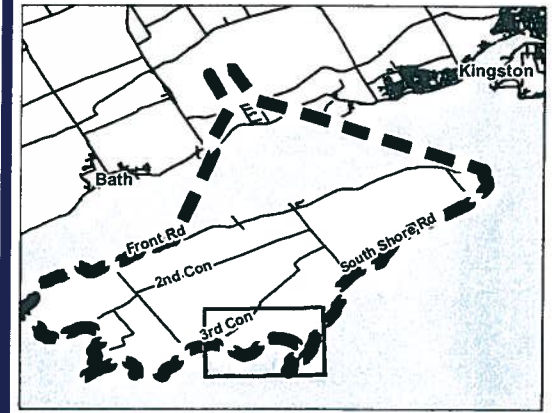
Title
FIELD MAPBOOK





Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

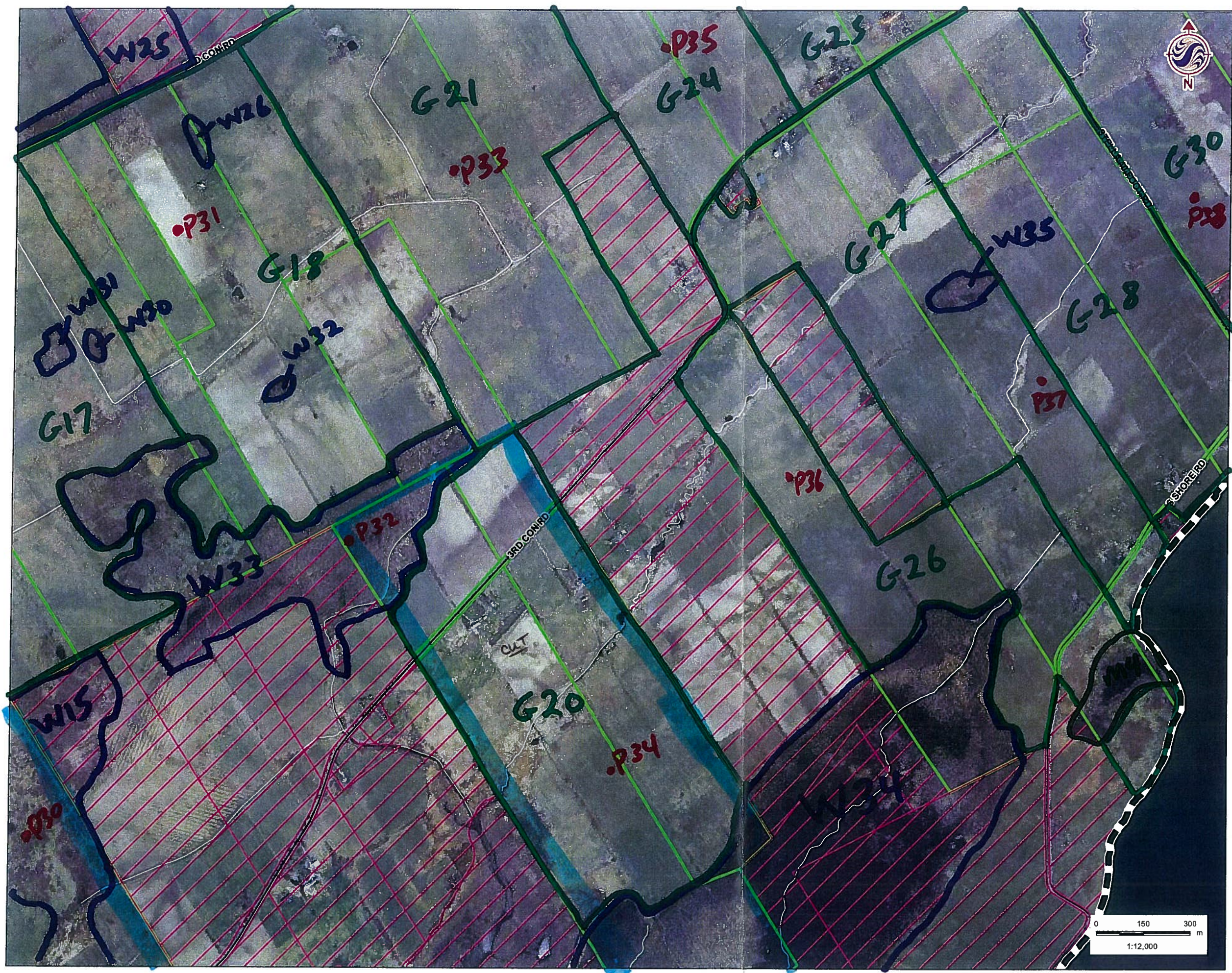
Figure No.

Tile 7

Title

FIELD MAPBOOK



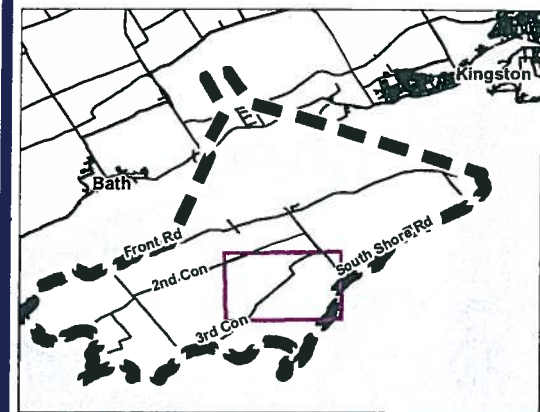


Legend

- Study Area
- Road
- Watercourse
- Amphibian Station

Property Status

- Optional
- Not Optional



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008

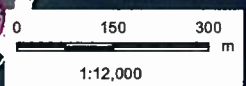


May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 6

Title
FIELD MAPBOOK





Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amheest

Date: June 21, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>11</u>	WIND: <u>NE ①</u>	CLOUD: <u>10</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	----------------------	---------------------	------------------	-----------------------------------

Feature No.: M3 Habitat Type: _____ Time Start: 0540 Time End: 0615

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard	H	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡†	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡†	
Pied-b. Grebe		Whip-poor-will ‡†		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern	SM S	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S S
N. Harrier ‡†		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	SM S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk ‡†		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	SM S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	A A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	SH H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	P	Baltimore Oriole †	SH H
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	P P	Pine Wa. ‡			
Mourn. Dove	S	No. R. W. Swal.		Cerulean Wa** ‡†			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 9

Quality Control: This form is complete & legible .

Signature: AW
 (Field Personnel)

Signature: Kati
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

614

Habitat Type:

Time Start:

0615

Time End:

0655

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat SM S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † SM S	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	CF
Virginia Rail		Ea. Phoebe		European Starling	H	Red-winged Bl. A	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. P P		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch H H	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 9

Signature:

AW

(Field Personnel)

Quality Control: This form is complete & legible

Signature:

Karin

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 21, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>11</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>0</u>

Feature No.: W36 Habitat Type: _____ Time Start: 0615 Time End: 0622

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	SM S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	SM S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	SM S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	A A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	SH H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo	SM S	Yellow Wa.	SM S	Baltimore Oriole †	SM S
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	SM S	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 9

Quality Control: This form is complete & legible

Signature: Alan Wormington

Signature: Karin

(Field Personnel)

(Project Manager)

Feature No.: G15 Habitat Type: _____ Time Start: 0655 Time End: 0725
0800 0835

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † SM	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. † SL	S
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡	H	No. Flicker †		Hermit Thrush ‡		Swamp Sp. SM	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † CF	CF
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	A
Sora		Gr. Crested Fly.		Cedar Waxwing P	P	Ea. Meadowlark †	
Killdeer		Ea. Kingbird † P	P	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. SM	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 9

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: Jun 21, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>16</u>	WIND: <u>NE (1)</u>	CLOUD: <u>10</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: W37 Habitat Type: _____ Time Start: 0655 Time End: 0703

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>SM</u>	<u>J</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <u>H</u>	<u>H</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †	<u>P</u>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>P</u>	<u>P</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 9

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W15 Habitat Type: _____ Time Start: 0725 Time End: 0758

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat A A	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡ H H		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal S S	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird SM S		Rose-br. Grosbeak † SM S	
Red-tailed Hawk		Willow Fly. † SHP P		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † A A	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A FY	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † SHP P		Blue-wing. Wa. †		Co. Grackle P P	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. SP P		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch P P	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 6 of 9

Signature: _____

AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Katrina

(Project Manager)

REV: 2011-05-27 / FORM 031



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 1 - 70 Southgate Drive
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 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: Jun 21, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>20</u>	WIND: <u>E ①</u>	CLOUD: <u>10</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	---------------------	---------------------	------------------	-----------------------------------

Feature No.: G20 Habitat Type: _____ Time Start: 0858 Time End: 0905

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

0932
1052
1132

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow <u>H</u>	<u>H</u>	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>SM</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † <u>SM</u>	<u>S</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>SM</u>	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. <u>SM</u>	<u>S</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † <u>SM</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † <u>A</u>	<u>A</u>
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † <u>SM</u>	<u>S</u>
Killdeer <u>A</u> <u>A</u>		Ea. Kingbird † <u>P</u>	<u>P</u>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. <u>P</u>	<u>P</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo <u>SM</u>	<u>S</u>	Yellow Wa.		Baltimore Oriole † <u>SM</u>	<u>S</u>
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow <u>SH</u>	<u>H</u>	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 9

Quality Control: This form is complete & legible .

Signature: AW
 (Field Personnel)

Signature: Kerni S
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

W33

Habitat Type:

Time Start:

0905

Time End:

0932

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren S	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo. P P		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † S S		Am. Robin S S		No. Cardinal	SM
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird A A		Rose-br. Grosbeak † S S	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † A A		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling A A		Red-winged Bl. A A	
Sora		Gr. Crested Fly. SM S		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle H H	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole † A A	
Am. Woodcock		Red-eyed Vireo S S		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay H H		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove H H		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 8 of 9

Signature:

AN

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Kethi S

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595
 Date: June 21/11

Project Name: Amherst
 Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>E (1)</u>	CLOUD: <u>10</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	-----------------------	---------------------	------------------	-----------------------------------

Feature No.: W34 Habitat Type: _____ Time Start: 1030 Time End: 1052

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>SM</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo. <u>H</u>	<u>H</u>	Veery		Song Sp. <u>SM</u>	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † <u>SM</u>	<u>S</u>	Am. Robin <u>H</u>	<u>H</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak † <u>SM</u>	<u>S</u>
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. <u>SM</u>	<u>S</u>	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe <u>DD</u>	<u>DD</u>	Warbling Vireo <u>SM</u>	<u>S</u>	Yellow Wa. <u>SM</u>	<u>S</u>	Baltimore Oriole † <u>FY</u>	<u>FY</u>
Am. Woodcock <u>DD</u>	<u>DD</u>	Red-eyed Vireo <u>SM</u>	<u>S</u>	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	<u>H</u>	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 9


Quality Control: This form is complete & legible .

Signature: AW
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

REV: 2011-05-27 / FORM 031

DAY 7

 Stantec	Stantec Consulting Ltd. 70 Southgate Drive Guelph, Ontario, Canada N1G 4P5 Tel: (519) 836-6050 Fax: (519) 836-2493	Birding Point Counts Survey Observation Form			
	Project Number <u>160960595</u> Date <u>June 21, 2011</u>	Project Name: <u>Amherst</u> Field Personnel: <u>Alan Wormington</u>			
Weather Conditions:	Temp: <u>11</u>	Wind: <u>NE ①</u>	Cloud: <u>10</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>

GPS #: T__

Station: P28 / 237

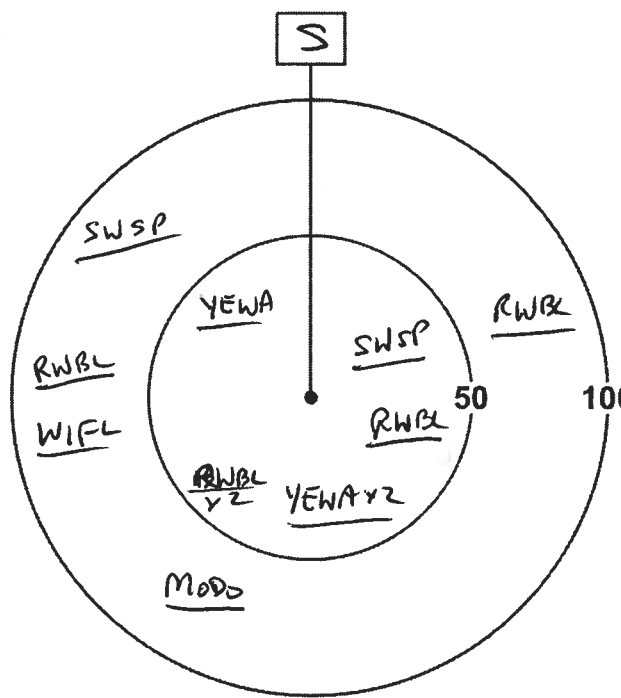
M3

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0540

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
SWSP	1	1			0
YEWA	3				0
RWBL	3	2			0
WIFL		1			0
MoDo		1			0



*Height of blade sweep will vary from project to project; Check with Project Manager
 O – On ground; A – Below height of blade sweep; B – At height of blade sweep;
 C – Above height of blade sweep; D – Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)
 Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

Day 7
June 21, 2011

(G14) (NBS)

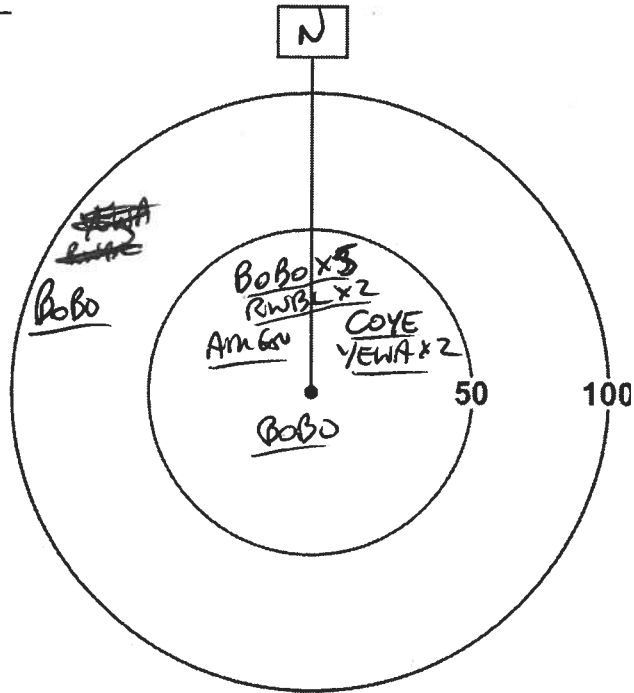
Station: 24 / 242

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0642

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EUST				1	A
Bobo	6	1			A
RWBL	2				O
AMGO	1				O
YENA	2				O
COYE	1				O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P30 / 244

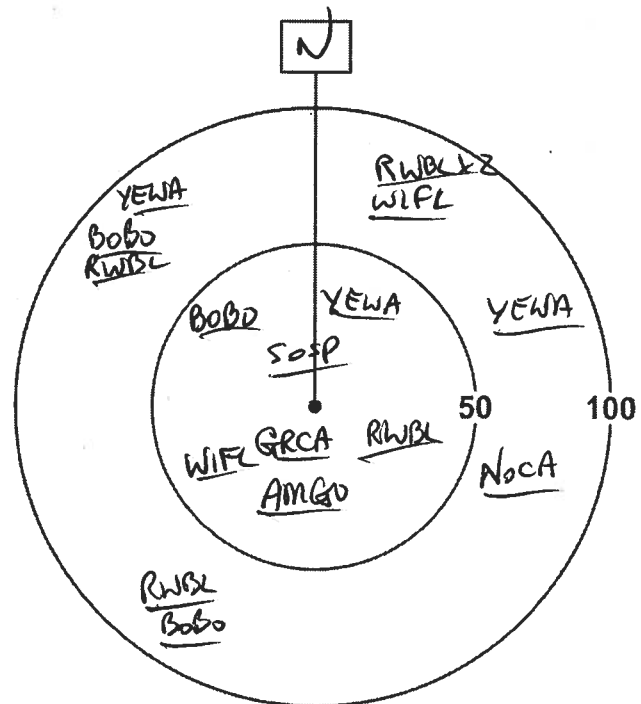
(W15)

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0735

Species	<50 m	50-100 m	>.100m	Flyovers	Height*
Bobo	1	2			O
YENA	1	2			O
WIFL	1	1			O
AMGO	1				O
NOCA		1			O
RWBL	1	4			O
SOSP	1				O
GRCA	1				O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ().

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

DAY 7 - Jun 21, 2011

Station: P29 / 240

G15

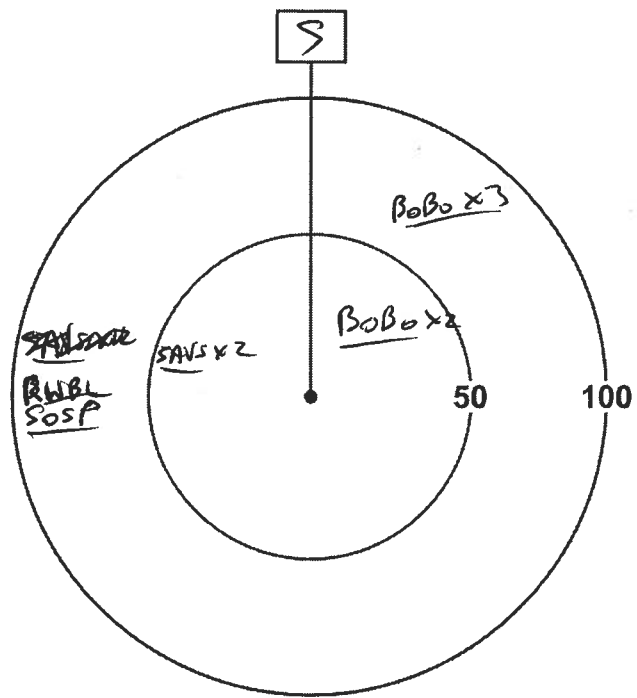
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0820

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
So SP		1			D
RWBL		1			O
Bobo	2	3			A
CEWA		2		3	A
BARB				1	A
AMGD				1	A
SAVS	2				O

WAX



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P32 / 236

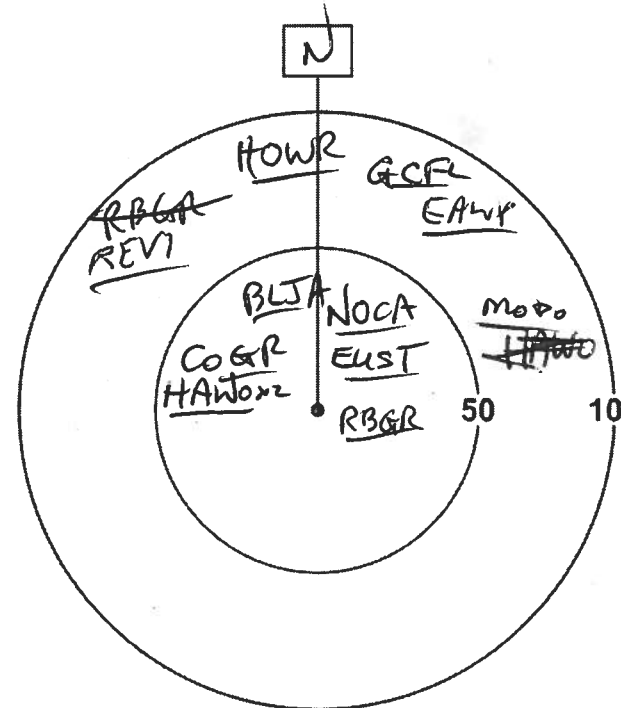
W33

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0913

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
NAWO	2				A
REVI		1			A
EAWP		1			A
MODO		1			A
RBGR	1				A
HOWR		1			O
EUST	1				A
NOCA	1				O
GCFR		1			A
BLJA	1				A
COGR	1				A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

DAY 7 - June 21, 2011

Station: P62 / 233

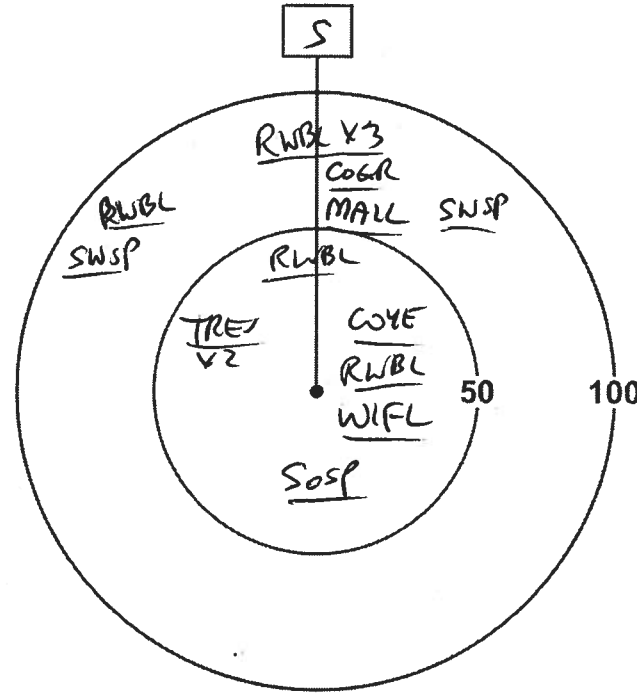
M3

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 1012

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
TRES	2				A
BAOR				1	A
WIFL	1				O
SWSP		2			O
RWBL	2	4			O
SOSP	1				O
COYE	1				O
MALL		1			O
COGR	1	1			A
BARB				5	A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P63 / 234

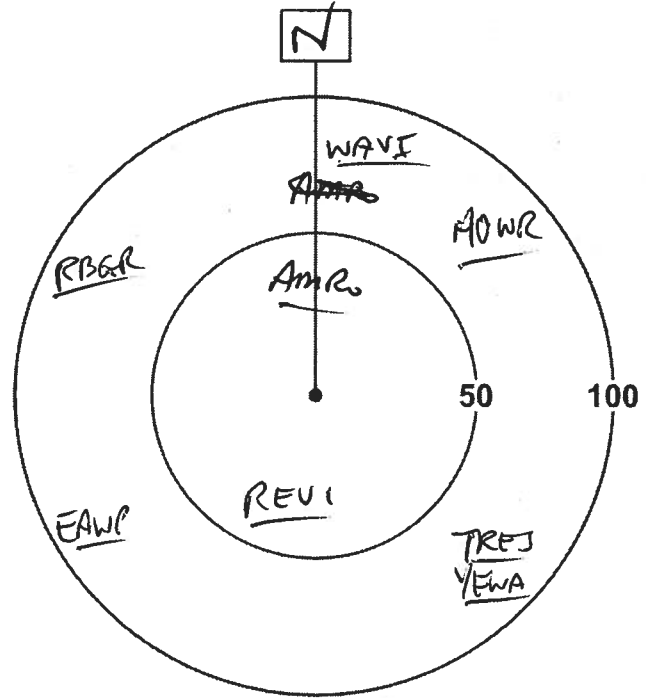
W34

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 1035

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RBGR		1			A
EAWP		1			A
WAVI		1			A
HOWR		1			O
TRES		1			A
YELWA		1			O
AMRO	1				O
REUI	1				A



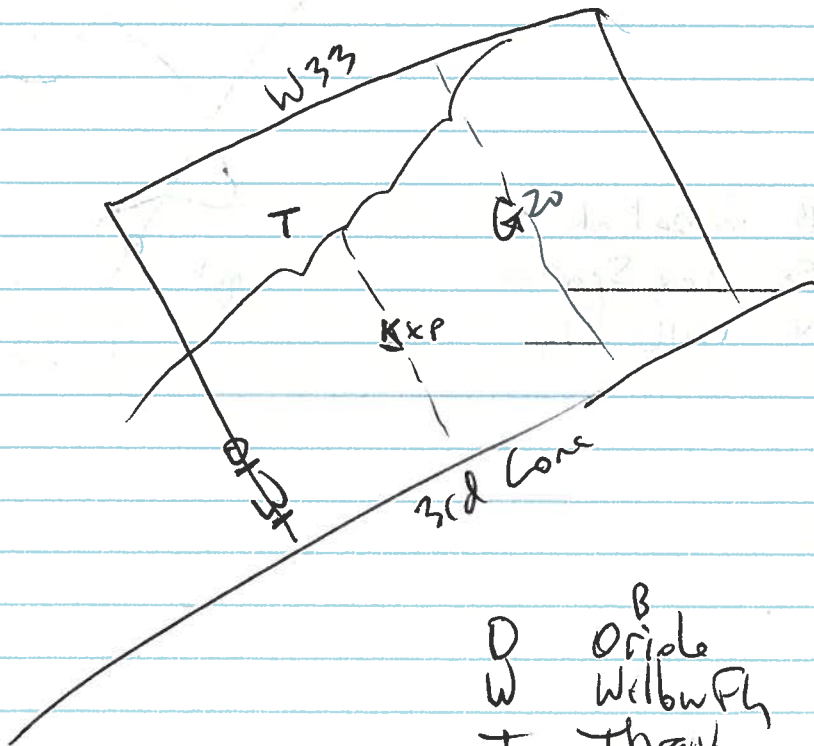
*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ().
 Signature: _____
 (Field Personnel)

Signature: _____
 (Project Manager)

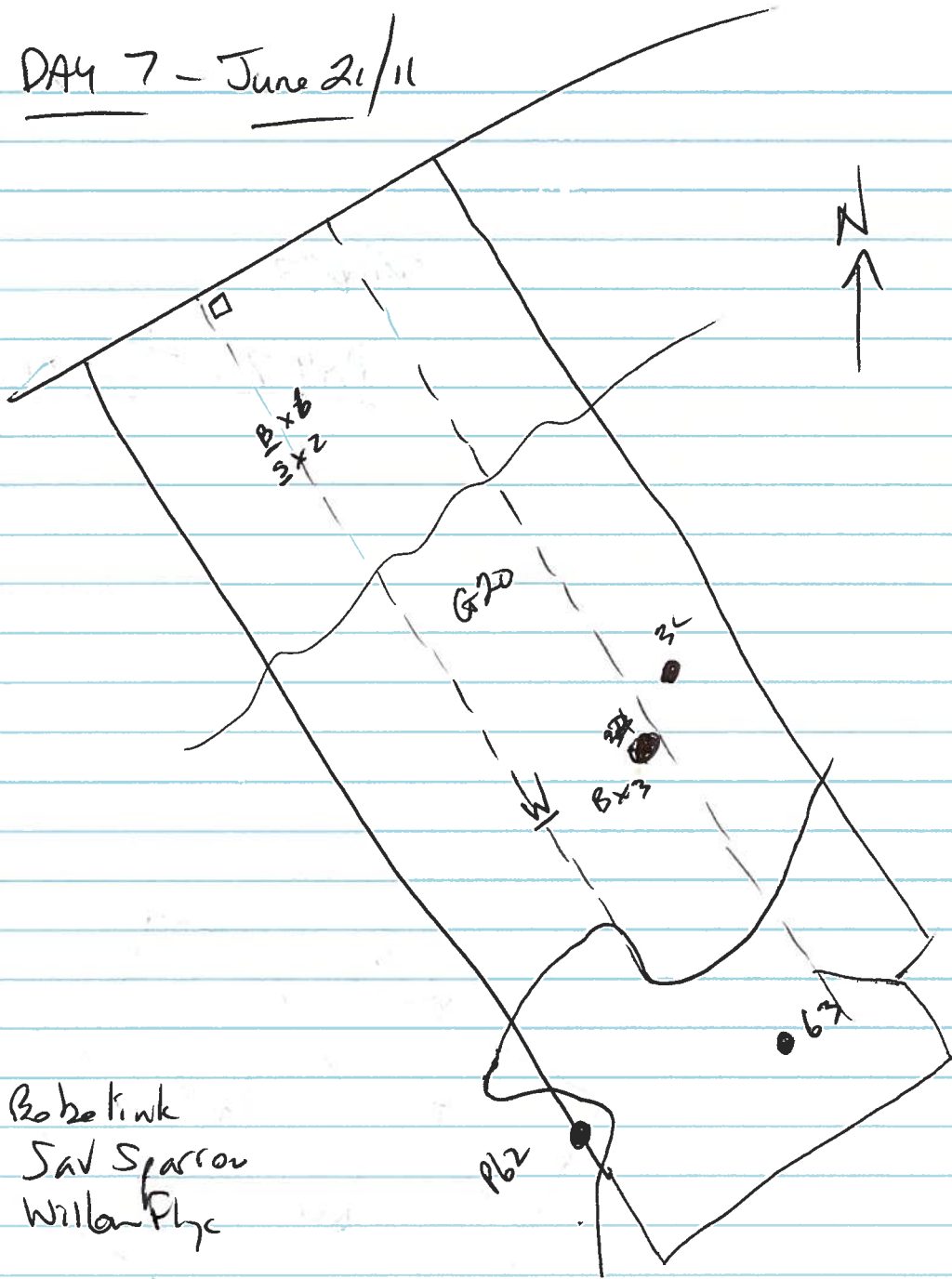
BLAZZ,

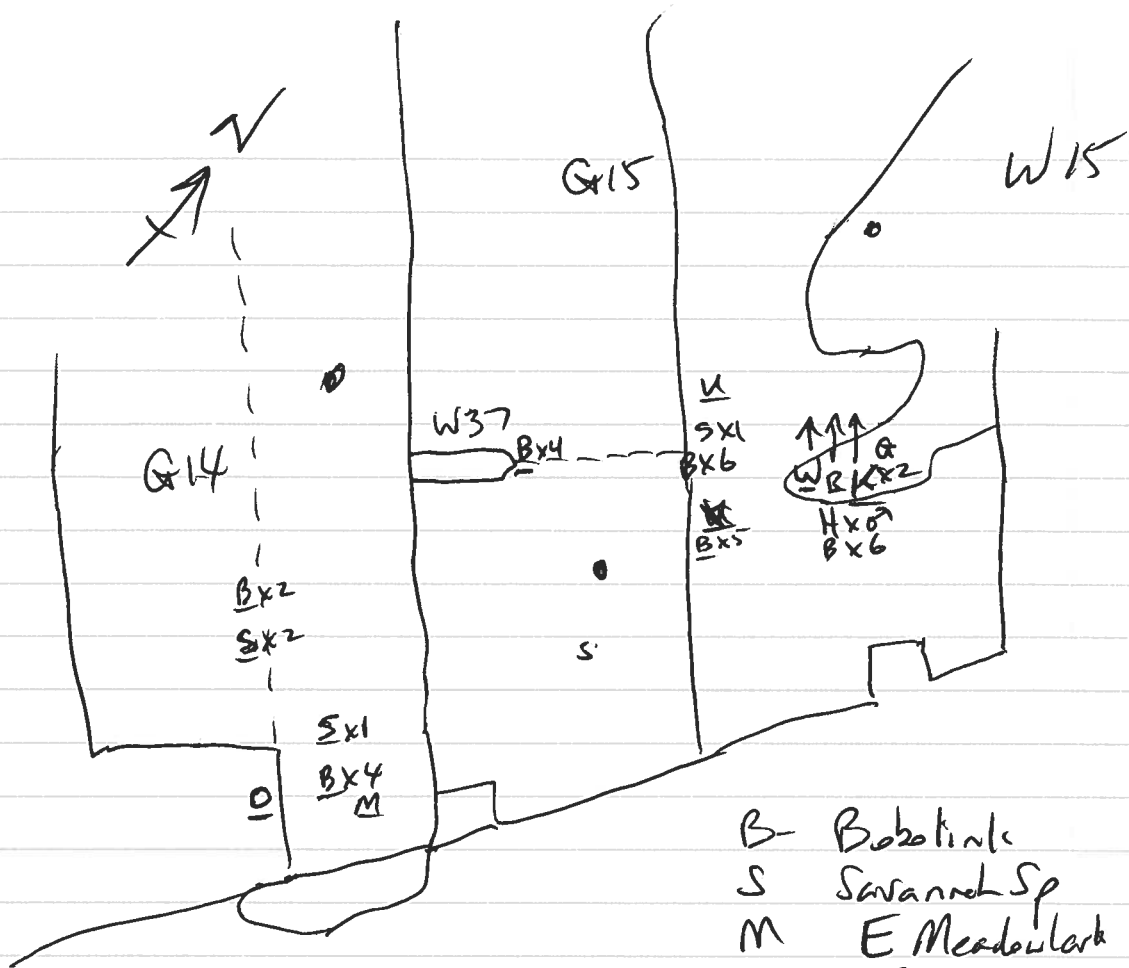
DAY 7 - June 21, 2011



D	^B Oriole
W	Willow Ph
T	Thrasher
K	E Kingbird

DAY 7 - June 21/11





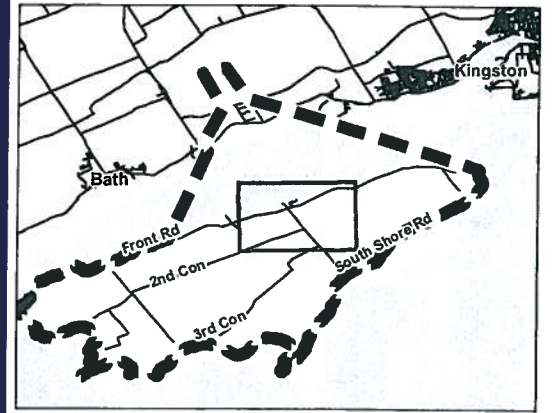
- B- Bobolink
- S Savannah Sp
- M E Meadowlark
- O - B Oriole
- U Upland S
- W Willow Flyc
- R Rose-br Grosb
- K E Kingbird
- H N Harrier
- G Grasshopper Sp

DAY 7 - June 21, 2011



Legend

- Study Area
- Road
- Watercourse
- Amphibian Station
- Property Status**
- Optioned
- Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

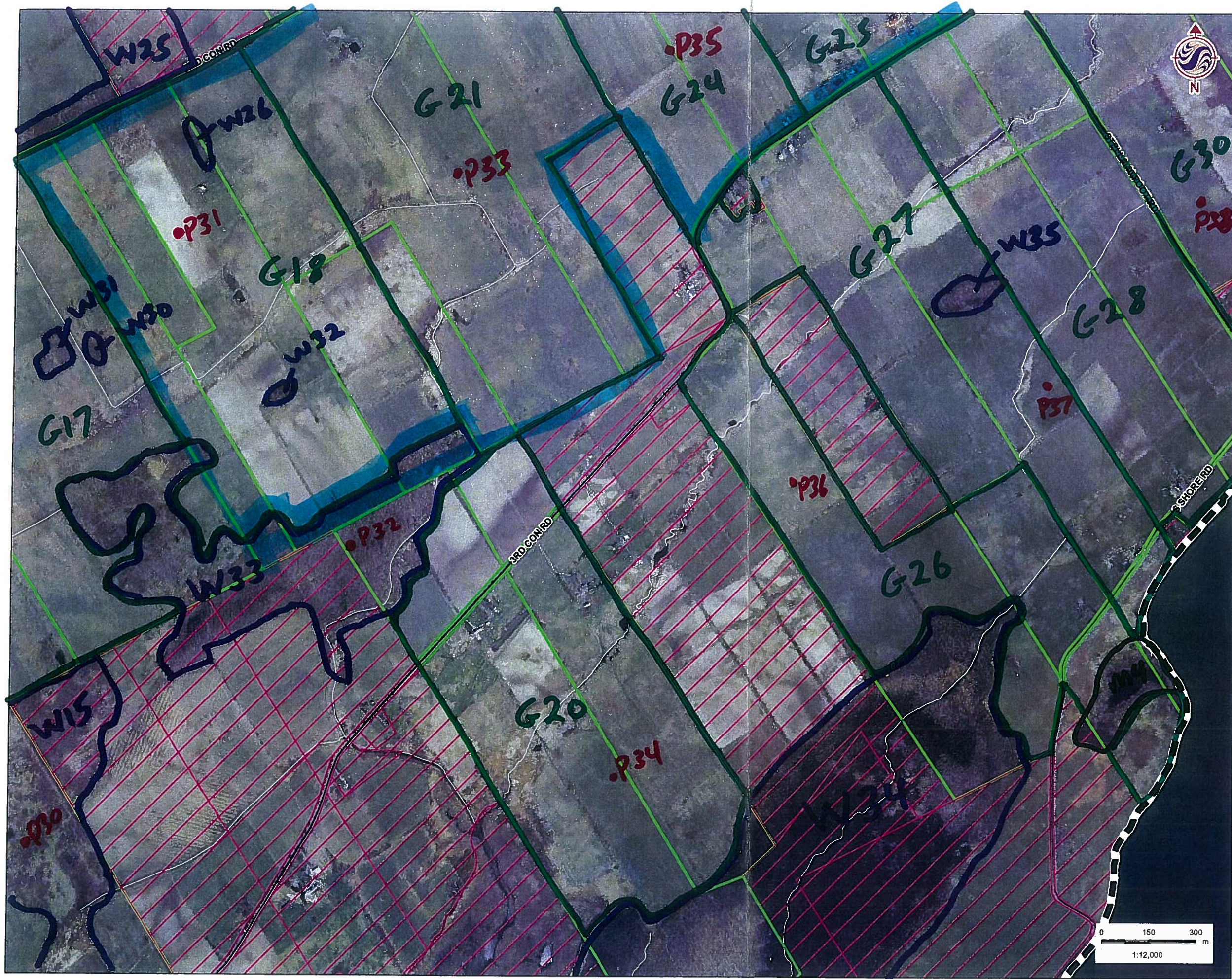
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 5

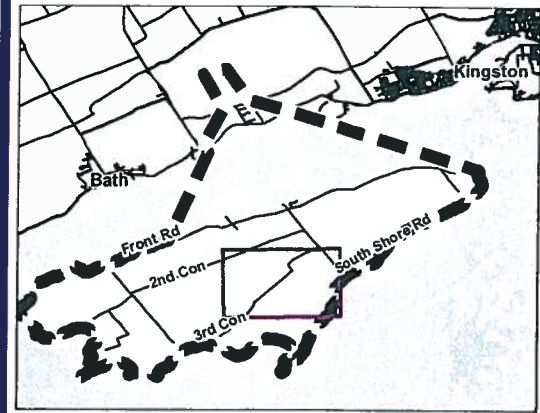
Title

FIELD MAPBOOK



Legend

- Study Area
- Road
- Watercourse
- Amphibian Station
- Property Status**
- Optioned
- Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

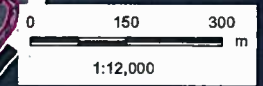
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 6

Title

FIELD MAPBOOK





Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 19/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>10</u>	WIND: <u>0</u>	CLOUD: <u>10</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	-------------------	---------------------	------------------	-----------------------------------

Feature No.: G18 Habitat Type: _____ Time Start: 0519 Time End: 0613
0705 0830

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant	SM S	Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † SM	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SM	S
N. Harrier †‡	A A	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	P P
Virginia Rail		Ea. Phoebe		European Starling	FY	Red-winged Bl. A	P A
Sora		Gr. Crested Fly.		Cedar Waxwing H	H	Ea. Meadowlark † SM	S
Killdeer		Ea. Kingbird † H	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡ SH	H	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. SM	S	Baltimore Oriole †	RS
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	A	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch H P	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 6

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 19, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>15</u>	<u>E (1)</u>	<u>20</u>	<u>0</u>	<u>0</u>

Feature No.: W33 Habitat Type: _____ Time Start: 0718 Time End: 0740

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery <u>SH</u>	<u>S</u>	Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly. <u>SM</u>	<u>S</u>	Gray Catbird <u>SH</u>	<u>A</u>	Rose-br. Grosbeak † <u>SM</u>	<u>S</u>
Red-tailed Hawk		Willow Fly. † <u>SM</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark ‡	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle <u>SH</u>	<u>H</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole † <u>SM</u>	<u>S</u>
Am. Woodcock		Red-eyed Vireo <u>SM</u>	<u>S</u>	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay <u>H</u>	<u>H</u>	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 6

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Keri
 (Project Manager)

Feature No.:

G21

Habitat Type:

Time Start:

0613

Time End:

0705

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † P P	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
♀ Osprey		Hairy Wo.		Veery		Song Sp. SM S	
N. Harrier †‡ H H		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † A A	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A A	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † S	
Killdeer		Ea. Kingbird † P P		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe SM S		Warbling Vireo SM S		Yellow Wa. SM S		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow SM FY AK		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow H H		Pine Wa. ‡			
Mourn. Dove SM S		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 6

Signature:

(Field Personnel)

Quality Control: This form is complete & legible

Signature:

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 19/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>17</u>	<u>NE ①</u>	<u>36</u>	<u>0</u>	<u>0</u>

Feature No.: G24 Habitat Type: _____ Time Start: 0850 Time End: 0948

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P P
T. Vulture	X	Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	P
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer	A	Ea. Kingbird †	P	Blue-wing. Wa. †		Co. Grackle	X
Spot. Sandpiper	A	Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	P
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	A A	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark	P P	Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	P P	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 6

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Kate
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: G25 Habitat Type: _____ Time Start: 0948 Time End: 1030

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	NY
T. Vulture	X	Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. A	A
N. Harrier †‡	A H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † A	CF
Virginia Rail		Ea. Phoebe		European Starling SH	H	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † PH	P
Killdeer		Ea. Kingbird † SH P	P	Blue-wing. Wa. †		Co. Grackle	X
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

- light green pasture
 - NY4 in clump of grasses, clover, vetch - ad fls/des } SAUS nest
 - young large but no feathers
 same penest x 3

Pg. 6 of 6
 Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Kovari
 (Project Manager)



Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595 Project Name: Amherst
Date June 19/11 Field Personnel: Alan Wermington

Weather Conditions: Temp: 10 Wind: 0 Cloud: 10 PPT: 0 PPT in last 24 hrs: 0

GPS #: T__

Q18
W32
W33

Station: P31 / 254

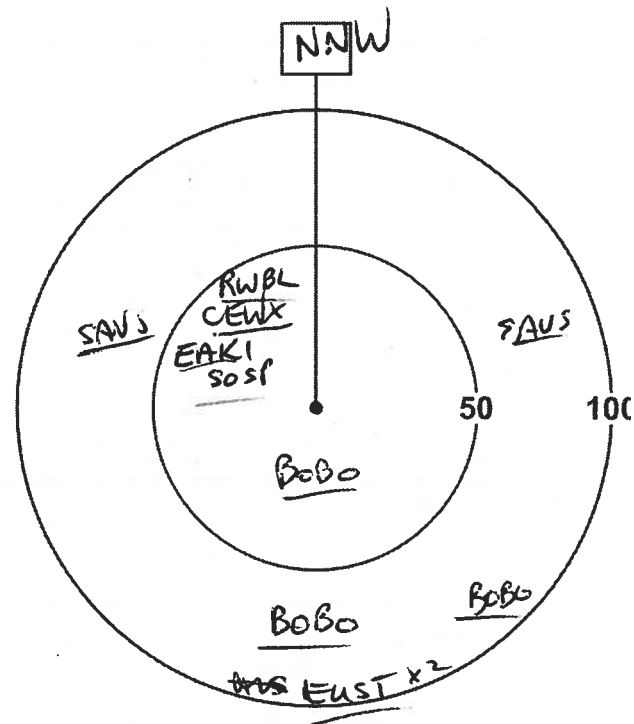
Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0538

Warw

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
CEWX	1				A
EAKI	1				O
EUST		2		2	A
SOSP	1				O
BOBO	1				A
SALS		2			O
BOBO		2			O
RWBL	1				A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ().

Signature: AW
(Field Personnel)

Signature: [Signature]
(Project Manager)

Page 1 of 3

REV: May, 07 Form 020

Station: P33 / 255 G21

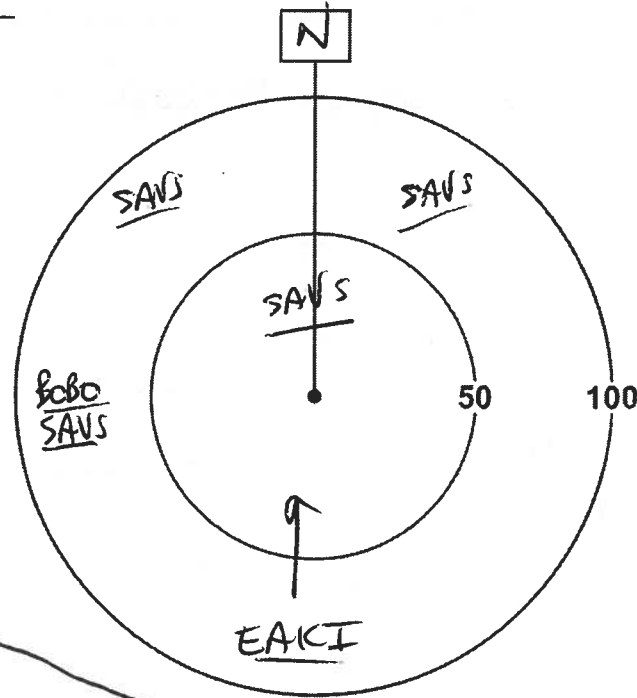
Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0631

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BARB				2	A
TREJ				1	A
SAVS	1	3			O
EAKI	1				O
BOBO		1			O

*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep



E side of field plowed under - 100% dry dirt

Station: P43 / 250 G24

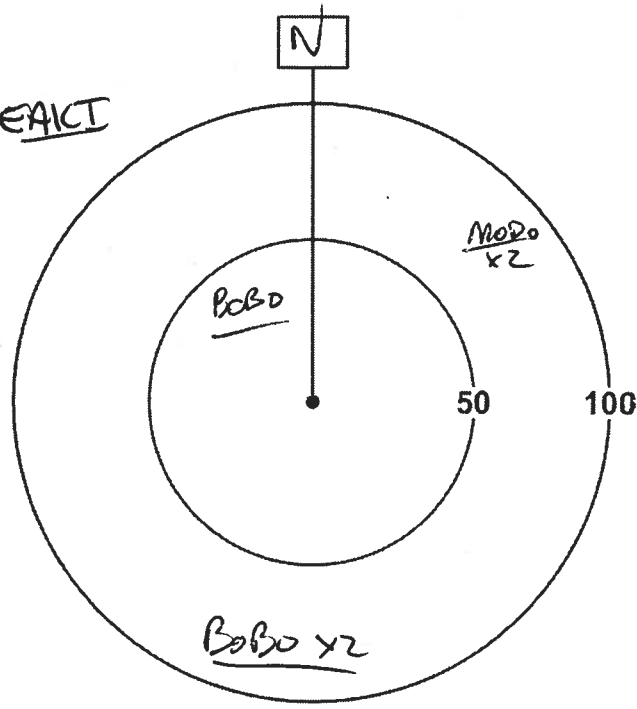
Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0908

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BHCO				2	A
BOBO	1	2			O
MOBO		2			O
EAKI			1		O
RWBL				1	A

*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep



Quality Control: This form is complete (✓) & legible (✓).
 Signature: _____
 (Field Personnel)

Signature: Karin
 (Project Manager)

Station: P35 / 251

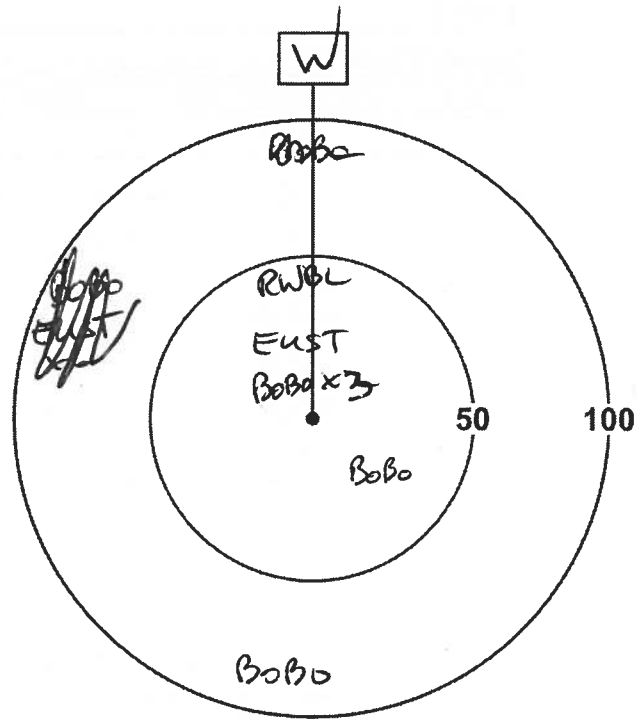
G24

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0927

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RWBL					
Bobo					
EUST	1				O
Bobo				12-3	A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P44 / 248

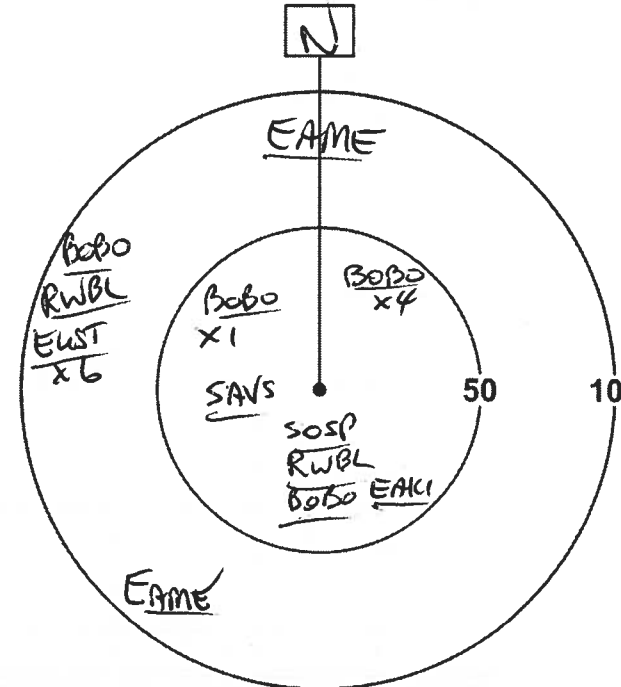
G25

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 1005

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EAME		2			O
BOBO	6	1			A
EAKI	1				O
SANS	1				O
RWBL	1	1			A
SOSP	1				O
EUST				12-6 6	A
COGR				3	A
EUST		6			A

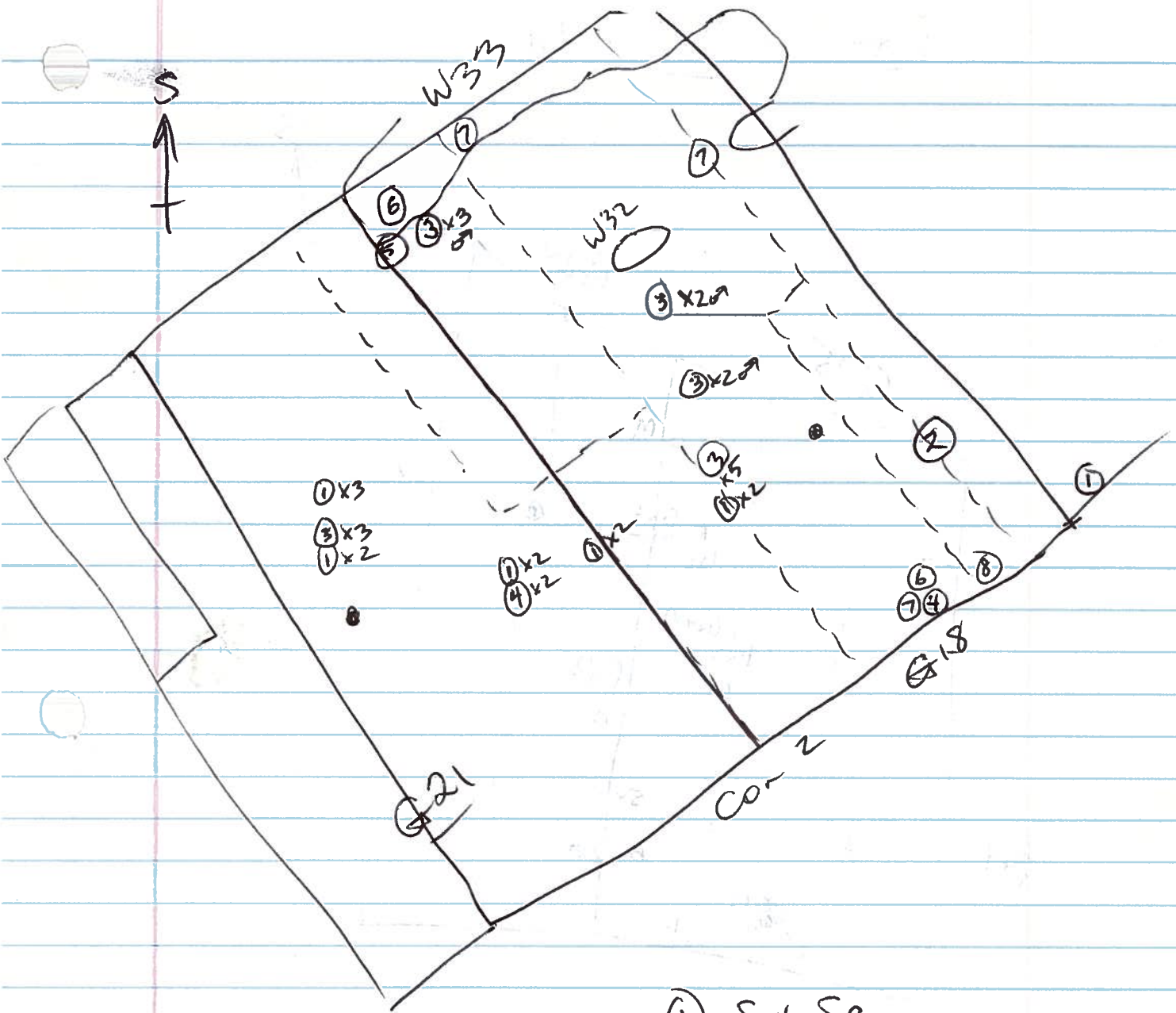


*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()
 Signature: _____

Signature: Kethi S
 (Project Manager)

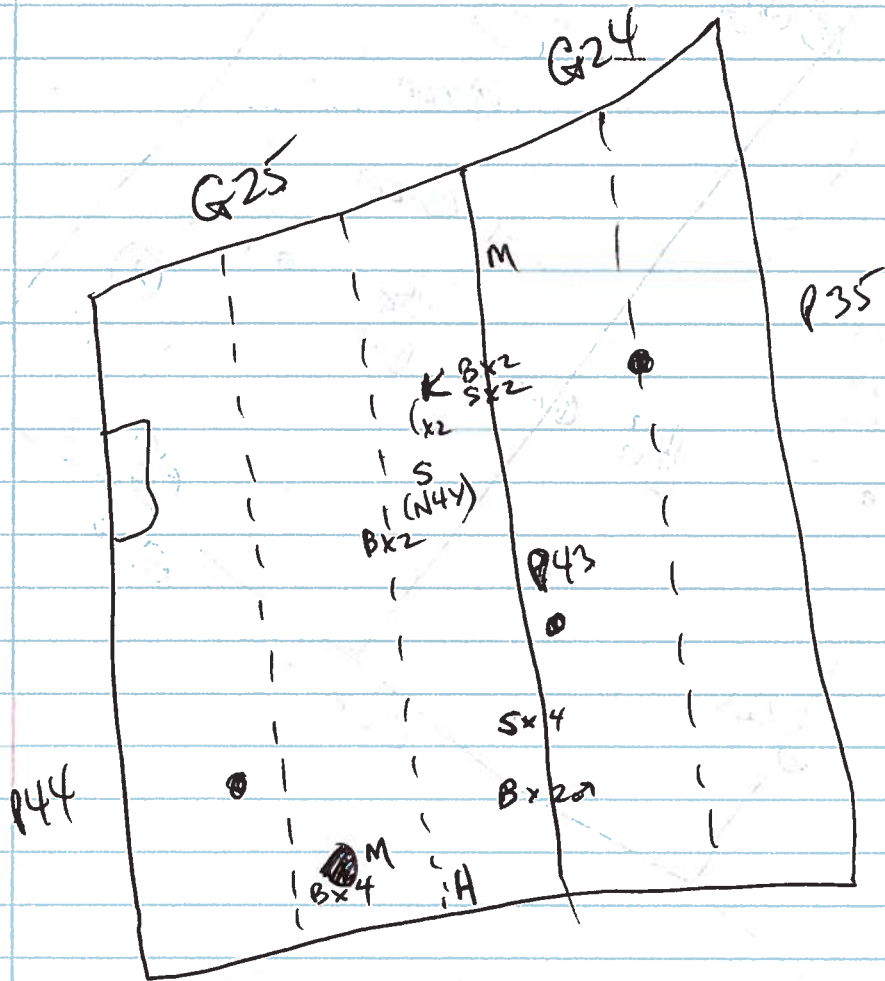
Page 3 of 3 (Field Personnel)



DAY 8 - June 19/11

- ① Sav. Sp
- ② N Harrier ↗
- ③ Bobolink
- ④ E Kingbird
- ⑤ Willow Flyc
- ⑥ Rose-br Grosbeak
- ⑦ B Oriole
- ⑧ Upland Sandy







DAY 8 - June 19/11

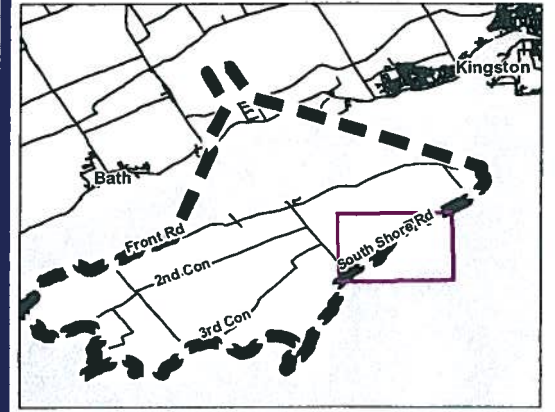


- ~~HHH~~ H - Harrier
- B - Bobolink
- S - Savannah Sp
- M - Meadowlark
- K - Kingbird



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



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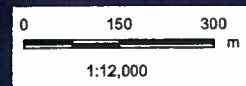
May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT







Figure No.
Tile 8

Title
FIELD MAPBOOK





Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

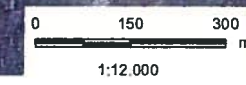
Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 5

Title

FIFI D MAPBOOK





- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
 - Property Status**
 - Optional
 - Not Optional



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



May 2011
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Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 6

Title
FIELD MAPBOOK



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 20/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>10</u>	WIND: <u>E 10 ①</u>	CLOUD: <u>40</u>	PPT: <u>0</u>	PPT (in last 24 hrs):
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Feature No.: G26 Habitat Type: _____ Time Start: 0520 Time End: 0615
0645 0700

Record location of all significant species on site map.
 ** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	SM S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	SM S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	A FY
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	A A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S S
Killdeer		Ea. Kingbird †	H H	Blue-wing. Wa. †		Co. Grackle	H H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	SM S	Baltimore Oriole †	H H
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	X	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	H H	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	H H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 10

Quality Control: This form is complete & legible

Signature: AW
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

Feature No.: W34 Habitat Type: _____ Time Start: 0615 Time End: 0648

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant	SM S	Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	SM S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch	SM S	Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	SM FY	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †	A	Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	SM S
N. Harrier †‡		No. Flicker †	N	Hermit Thrush ‡		Swamp Sp.	SM S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	SM S	Am. Robin	A A	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	H H	Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.	H H	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	N	Red-winged Bl.	SM S
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	SM S
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	SM S	Warbling Vireo	SM S	Yellow Wa.		Baltimore Oriole †	SM S
Am. Woodcock	P	Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	N	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Red-headed Woodpecker — E most section of flooded swamp, the area with extensive dead trees

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin S
 (Project Manager)



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 Canada N1G 4P5
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 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595
 Date: June 20, 2011

Project Name: Amherst
 Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>16</u>	WIND: <u>0</u>	CLOUD: <u>30</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: M4 Habitat Type: _____ Time Start: 0700 Time End: 0743

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

* Mallard - ♀ w/ flightless brood
Least Bittern - flushed + flew a short distance.

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	FY	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck	X	Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
* Mallard	FY	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡	H	Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren <u>4+ 1</u>	S	Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	SM S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	CF
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	SM P	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡		<u>Hooded Merg</u>	X
Mourn. Dove		No. R. W. Swal.	X	Cerulean Wa** †‡		<u>Common Meadowlark</u>	SM

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario. Red-br Merganser X

Signature: Alan Wormington (Field Personnel)
 Mute Swan (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Kurti Stum (Project Manager)

Feature No.: G28 ~~628~~ Habitat Type: _____ Time Start: 0750 Time End: 0823

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

0823

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <i>SM</i>	<i>S</i>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † <i>A</i>	<i>A</i>
Virginia Rail		Ea. Phoebe		European Starling	<i>NY</i>	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † <i>A</i>	<i>A</i>
Killdeer <i>A</i>	<i>A</i>	Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	<i>X</i>	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove <i>SM</i>	<i>S</i>	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 10

Signature: _____

AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595
 Date: June 26/11

Project Name: Amherst
 Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>20</u>	WIND: <u>SE ①</u>	CLOUD: <u>35</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: G27 Habitat Type: _____ Time Start: 0823 Time End: 0920

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners in Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow H	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant †		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat SM	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SM	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. SM	S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † SM	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	A
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † SM	S
Killdeer † A †		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	SM	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow N	N
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 10

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____
 (Project Manager)

Feature No.: W35 Habitat Type: _____ Time Start: 0840 Time End: 0852

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo † SM		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren SM		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SM	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † SM		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † SH		Am. Robin	NU	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. SH		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle FY	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo SM		Yellow Wa. SM		Baltimore Oriole † SH	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow CF		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 6 of 10

Signature: _____

AW

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

Korhin

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: Jun 20/11

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>SE ①</u>	CLOUD: <u>35</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: G30 Habitat Type: _____ Time Start: 0945 Time End: 1038

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	sn A
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 10

Quality Control: This form is complete & legible .

Signature: Am
 (Field Personnel)

Signature: Kerrin
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W40

Habitat Type: _____

Time Start: 1017

Time End: 1031

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <i>SM</i> <i>S</i>	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <i>SM</i> <i>S</i>		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <i>A</i> <i>A</i>	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † <i>SM</i> <i>S</i>		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling <i>A</i> <i>A</i>		Red-winged Bl. <i>A</i> <i>A</i>	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo <i>SM</i> <i>S</i>		Yellow Wa. <i>SM</i> <i>S</i>		Baltimore Oriole † <i>A</i> <i>A</i>	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove <i>SM</i> <i>S</i>		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 8 of 10

Signature: _____

SM

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Karin

(Project Manager)

REV: 2011-05-27 / FORM 031



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 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 20, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>SW ①</u>	CLOUD: <u>10</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	----------------------	---------------------	------------------	-----------------------------------

Feature No.: W38 Habitat Type: _____ Time Start: 1045 Time End: 1202

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo <u>SM</u>	<u>S</u>	Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡ <u>SM</u>	<u>S</u>
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † <u>SM</u>	<u>S</u>
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture <u>P</u>	<u>P</u>	Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>A</u>	<u>A</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † <u>SM</u>	<u>S</u>	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † <u>SM</u>	<u>S</u>	Am. Robin	<u>A</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>SM</u>	<u>S</u>	Rose-br. Grosbeak † <u>SM</u>	<u>S</u>
Red-tailed Hawk <u>H</u>	<u>H</u>	Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>A</u>	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo <u>SM</u>	<u>S</u>	Yellow Wa.		Baltimore Oriole † <u>S</u>	
Am. Woodcock		Red-eyed Vireo <u>SM</u>	<u>S</u>	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow <u>A</u>	<u>A</u>	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 10

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

(Project Manager)

App Brown

Feature No.: W42

Habitat Type: _____

Time Start: 0950

Time End: _____

0958

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡ SM	↓
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren SM	↓	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. SM	↓
N. Harrier ‡‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk ‡‡		Alder Fly.		Gray Catbird SM	↓	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo SM	↓	Yellow Wa. SM	A	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡‡			

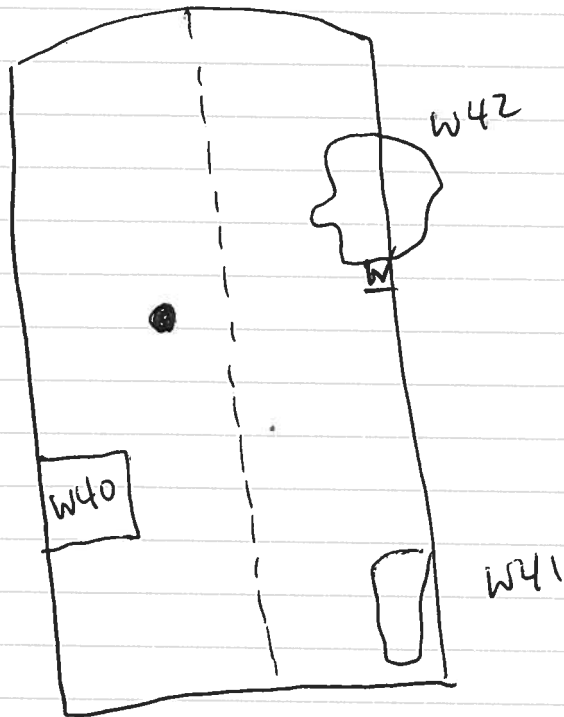
* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Signature: AW
 (Field Personnel)

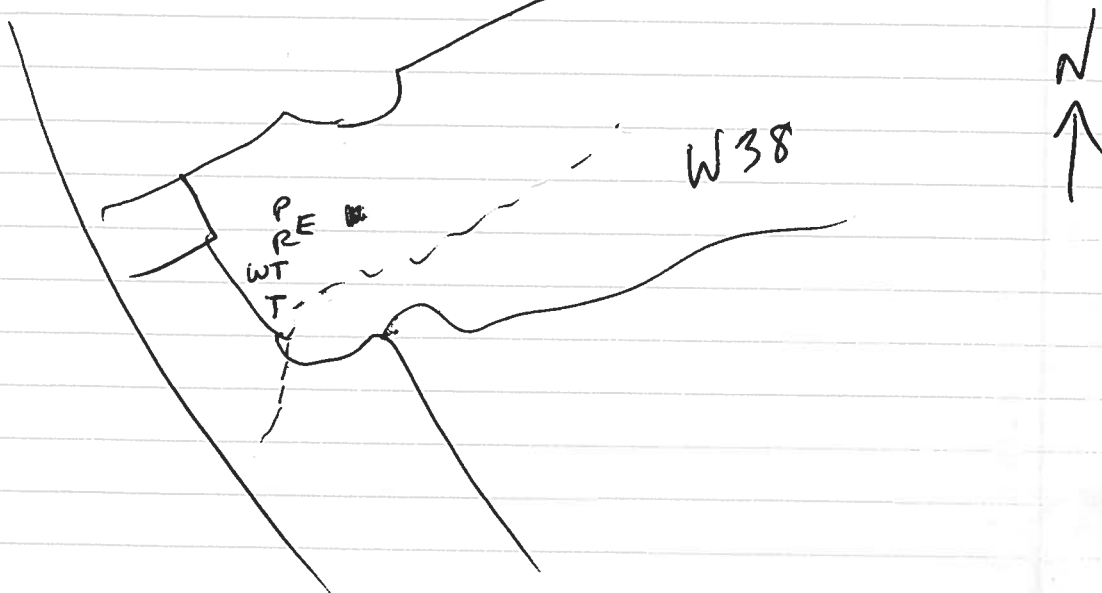
Quality Control: This form is complete & legible .

Signature: Karin
 (Project Manager)

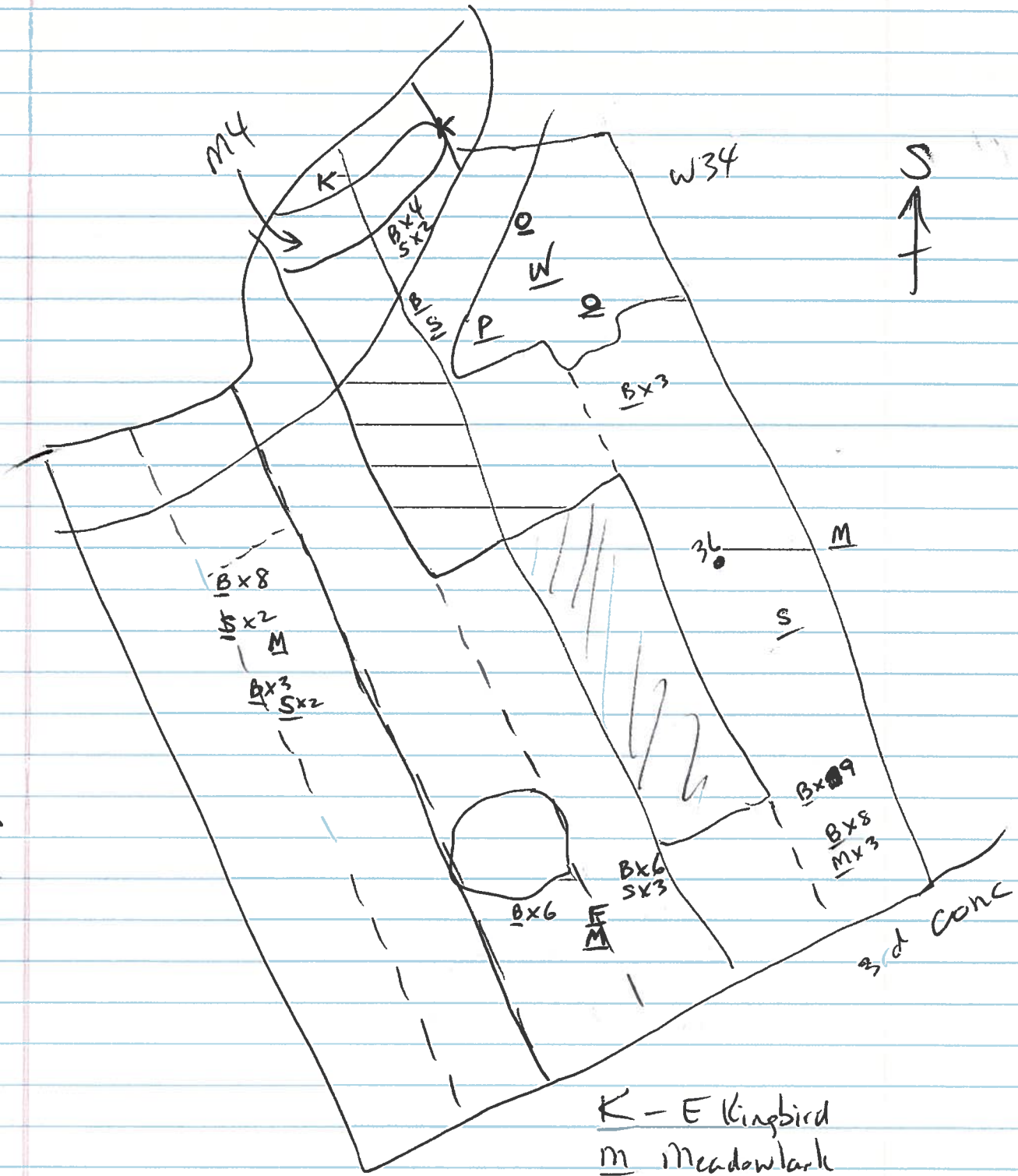
DAY 9 - June 20/11



- P - Pewee
- # W - Willow Fly
- T - Towhee
- WT - Wood Thrush
- R - Rose-br Grosb
- E - Redstart



Day 9 - June 20, 2011



||||
 M
 M

F - Willow Flycatcher

- K - E Kingbird
- m Meadowlark
- B Bobo
- S Sav Sparrow
- O B Oriole
- W Red-headed Woodp
- P - Pewee



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70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595 Project Name: Amhest
 Date June 20/11 Field Personnel: Alan Womington

Weather Conditions: Temp: 10 Wind: E ① Cloud: 40 PPT: 0 PPT in last 24 hrs: 0

GPS #: T _____

G26

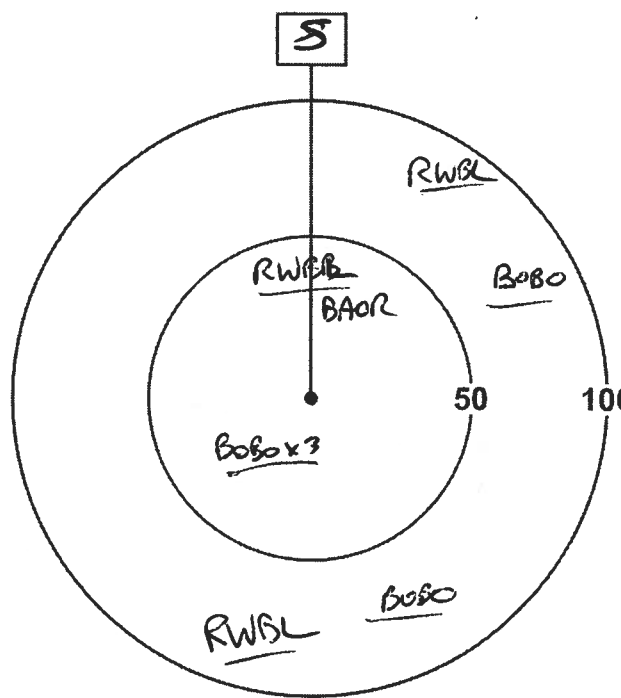
Station: P36 / 261

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0545

Species	<50 m	50-100 m	>100m	Flyovers	Height*
BoBo	3	2			O
RWBL	1	2			O
RWBL				1	A
BAOR	1				A
BoBo				1	A
RBGU				1	C
CoGR				1	A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ().
 Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

Station: P37/259

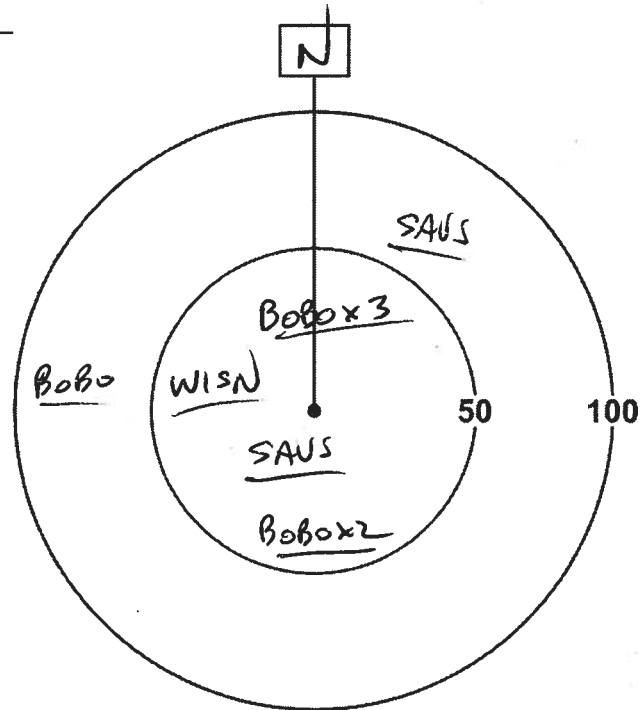
G27

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0826

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
Bobo	5	1			A
TRES				1	A
MOBO				1	A
WISN	1				A
BAR3				2	A
SAVS	1	1			O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P38/257

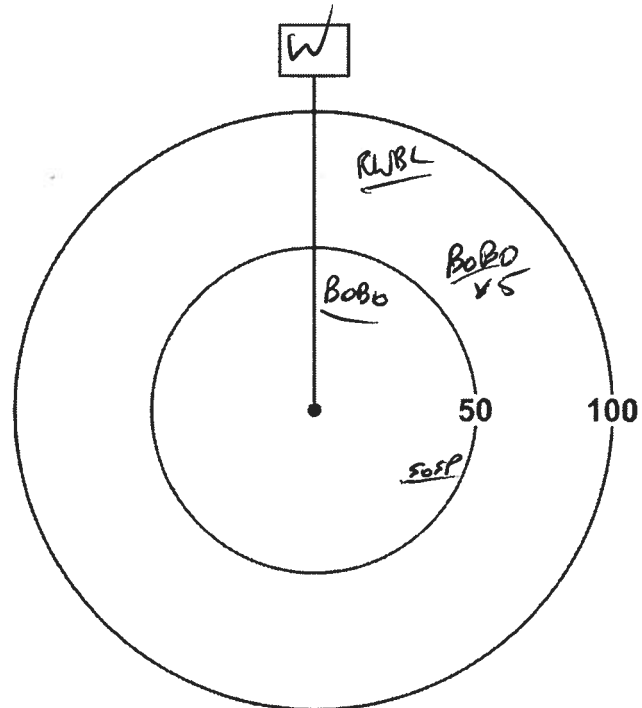
G30

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 1002

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
SOSP	1				O
Bobo	1	5			A
RWBL		1			O
RWBL				1	A
AMGO				1	A
BAR3				1	A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ().
 Signature: _____
 (Field Personnel)

Signature: Karin S
 (Project Manager)



Stantec Consulting Ltd.
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 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

DAY 9

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595 Project Name: Amherst
 ✓ Date: June 22, 2010 (correct) Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>20</u>	WIND: <u>E (2)</u>	CLOUD: <u>100</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>trace</u>
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Feature No.: W41 Habitat Type: _____ Time Start: 0543 Time End: 0600

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Willow Flyc. 20 (both S end)

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>↓</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>SM</u>	<u>↓</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <u>SM</u>	<u>S</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>SM</u>	<u>S</u>	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † <u>SM</u>	<u>S</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>SM</u>	<u>S</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo <u>SM</u>	<u>↓</u>	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 1

Signature: AW

(Field Personnel)

Quality Control: This form is complete & legible

Signature: Kathie

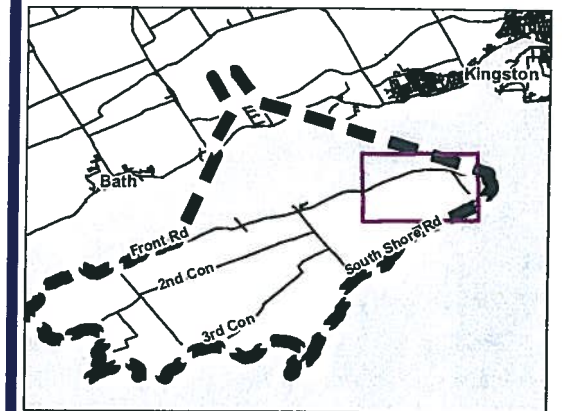
(Project Manager)

REV: 2011-05-27 / FORM 031



Legend

- Study Area
- Road
- Watercourse
- Amphibian Station
- Property Status**
- Optioned
- Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



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May 2011
160960595

Client/Project

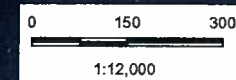
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 9

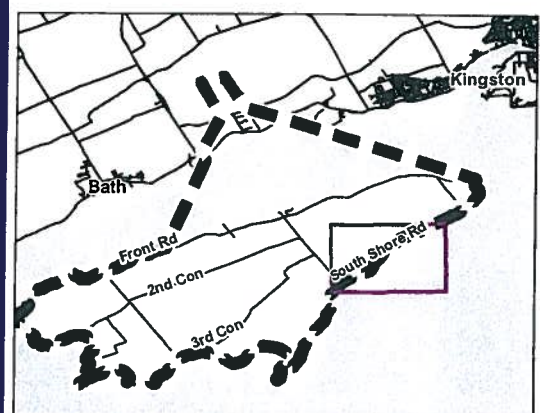
Title

FIELD MAPBOOK





- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



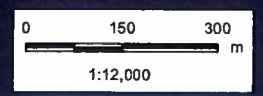
Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 8

Title
FIELD MAPBOOK





Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595
 Date: June 22, 2011

Project Name: Amherst
 Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20</u>	<u>E (2)</u>	<u>100</u>	<u>light</u>	<u>trace</u>

Feature No.: G31 Habitat Type: _____ Time Start: 0600 Time End: 0714

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose <u>Pond</u>	<u>FY</u>	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow <u>H</u>	<u>H</u>	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>SM</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	<u>P</u> <u>A</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier ‡‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk ‡‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. <u>SM</u>	<u>S</u>	Br. Thrasher †		Bobolink †	<u>A</u>
Virginia Rail		Ea. Phoebe		European Starling <u>FY</u>	<u>FY</u>	Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing <u>P</u>	<u>P</u>	Ea. Meadowlark † <u>SM</u>	<u>S</u>
Killdeer		Ea. Kingbird † <u>H</u>	<u>H</u>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>SM</u>	<u>S</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. ___ of ___

Quality Control: This form is complete & legible

Signature: _____
 (Field Personnel)

Signature: Katrin
 (Project Manager)

✓ June 24, 2011 (correct)

DAY 10

Feature No.: G34 Habitat Type: _____ Time Start: 0937 Time End: 1020

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡ H H		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird H H		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † P P		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † A A	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing H H		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. S S		Baltimore Oriole † H H	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven X		Yel-rumped Wa. ‡		Am. Goldfinch P P	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. ___ of ___

Signature: _____

AW
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

Katrin L
 (Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595
 Date: June 23, 2011

Project Name: Amherst
 Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>S (2)</u>	CLOUD: <u>100</u>	PPT: <u>Trace</u>	PPT (in last 24 hrs): <u>lots!</u>
---------------------	-------------------------	-----------------------	----------------------	----------------------	---------------------------------------

Feature No.: G32 Habitat Type: _____ Time Start: 0903 Time End: 0935
1005 1035

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron	X	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	H AP
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	SH H
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	S S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	A	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	SH H	Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	H RA
Virginia Rail		Ea. Phoebe		European Starling	X	Red-winged Bl.	FY H
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	H
Killdeer	DD DD	Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	X	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	X	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H	Pine Wa. ‡			
Mourn. Dove	H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. ___ of ___

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W38 Habitat Type: _____ Time Start: 0935 Time End: 1013

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

June 23 2011

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren S	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † S	S
T. Vulture		Downy Wo. H	H	Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † S	S	Am. Robin S	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak † S	S
Red-tailed Hawk		Willow Fly. † S	S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. S	S	Baltimore Oriole † 1	FY
Am. Woodcock H	H	Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	FY	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

NEyed Brown

Pg. ___ of ___
 Signature: *AW*
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: *Karin S*
 (Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 24, 2011 (corrected date)

Field Personnel: Alan Wormington

Weather Conditions:

TEMP (°C):

23

WIND:

S (2)

CLOUD:

80

PPT:

0

PPT (in last 24 hrs):

lots

Feature No.: W38

Habitat Type: _____

Time Start: 0958

Time End: 1012

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

*Swampy Area of 100m x 100m
the spanned next to it*

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡	H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	S
Sharp-sh. Hawk ‡	H	Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing	P	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. ___ of ___

Quality Control: This form is complete & legible .

Signature: _____

AW
(Field Personnel)

Signature: _____

John S
(Project Manager)

REV: 2011-05-27 / FORM 031

June 24, 2011 (correct date)

Feature No.: W43 Habitat Type: _____ Time Start: 0925 Time End: 0937

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant	H H	Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
♀ Osprey		Hairy Wo.		Veery		Song Sp.	A A
N. Harrier †‡	H H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	SM S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	H H	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	H H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	P P	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. ___ of ___

Signature: _____

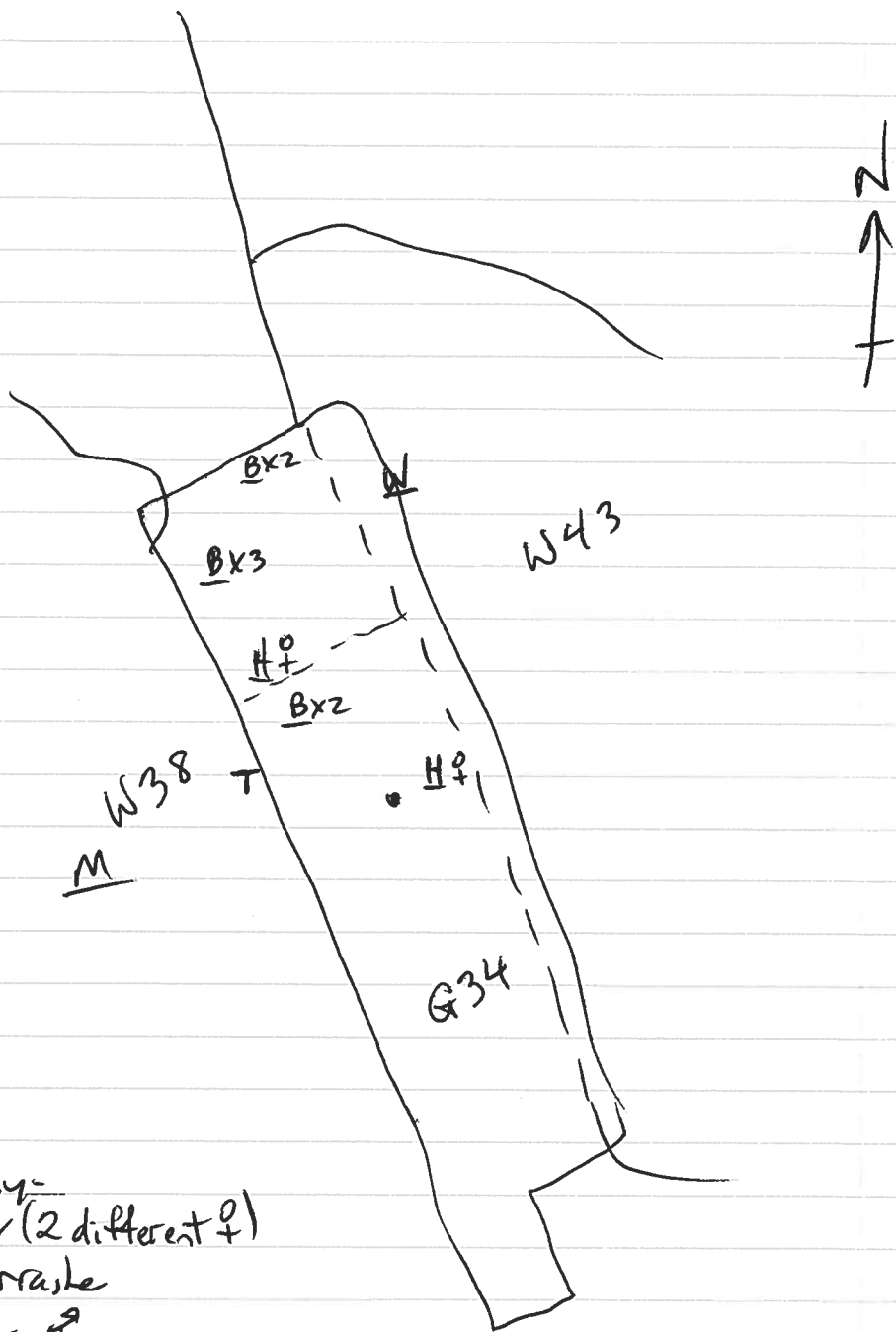
(Field Personnel)

Quality Control: This form is complete & legible .

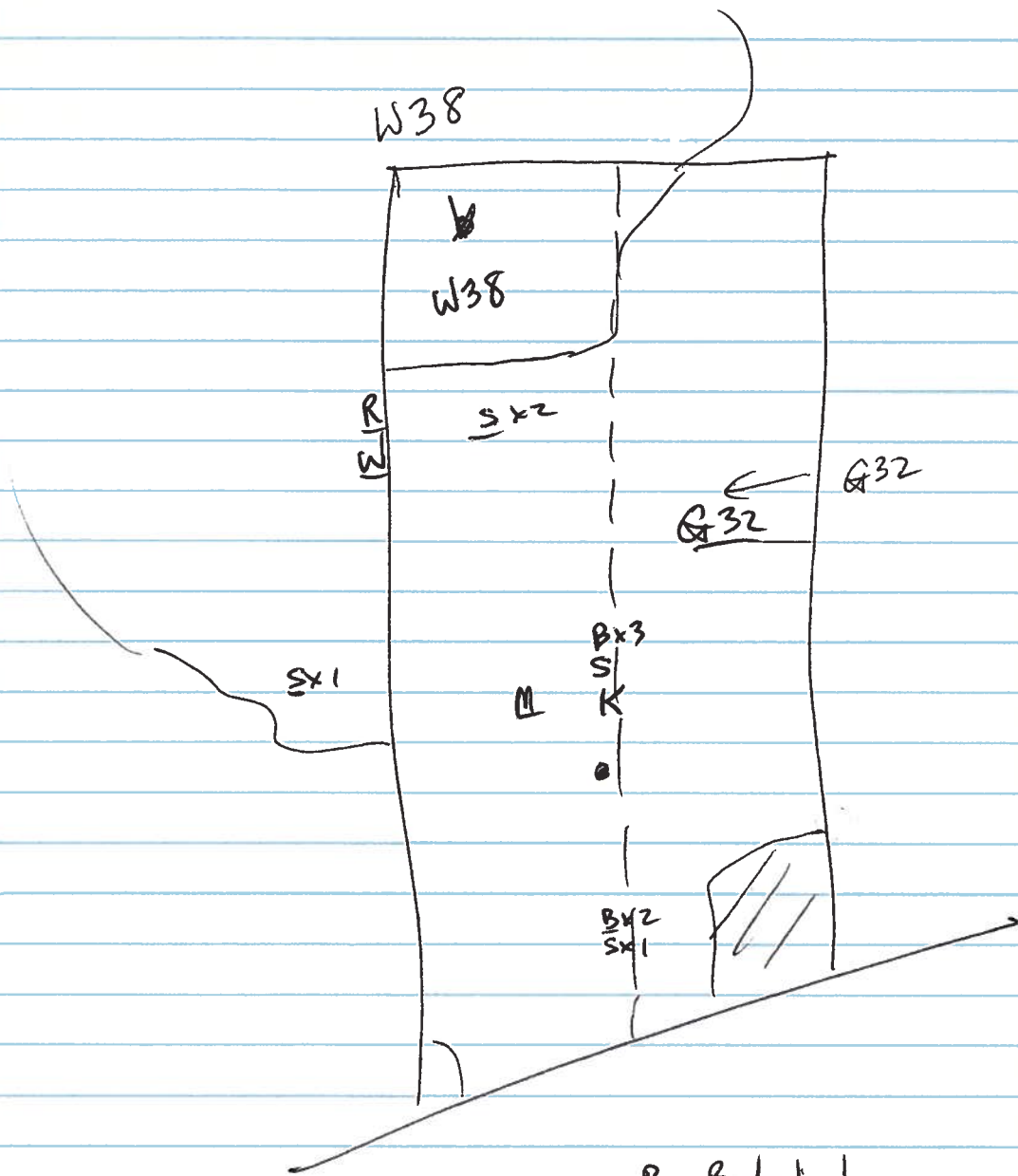
Signature: _____

(Project Manager)

DAY 10 - June 24, 2011



- W - Willow Flyc
- H - N Harrier (2 different ♀)
- T - Brown Thrasher
- M - N Harrier ♂
- B - Bobolink



- B - Bobolink
- S - Sav Sparrow
- K - E Kingbird
- R - Rose br Grosbeak
- W - Willow Flye
- M - E Meadowlark

DAY 10 - June 23, 2011



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595 Project Name: Amherst
Date June 22, 2011 Field Personnel: Alan Wormington

Weather Conditions: Temp: 18 Wind: E (2) Cloud: 100 PPT: light PPT in last 24 hrs: _____

GPS #: T _____

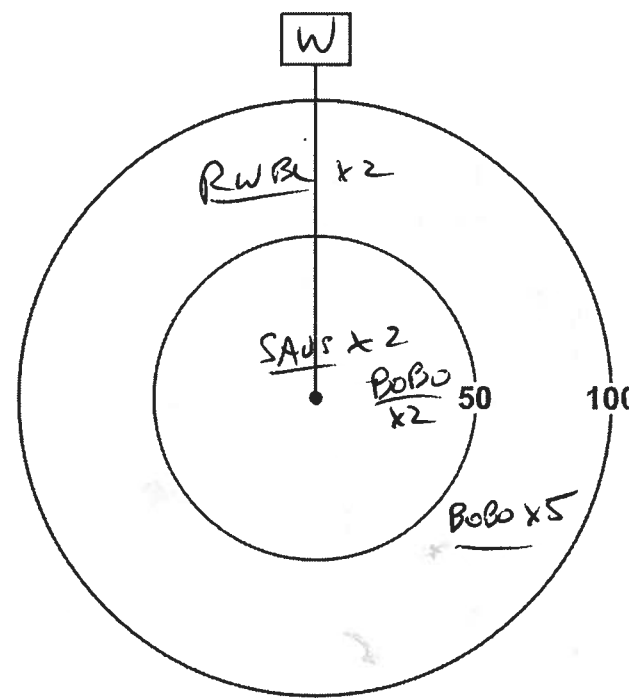
Station: P48/269 G31

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0609

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BARS				2	A
RWBL		2			0
SAVS	2				0
BOBO	2	5			0



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()
Signature: _____
(Field Personnel)

Signature: Katrin
(Project Manager)

DAY 10

Station: P49/271 (G31)

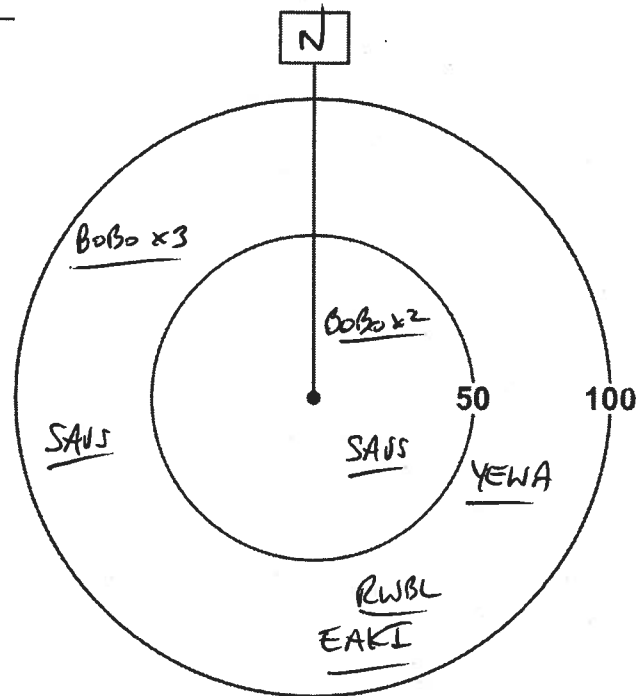
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0645

✓
WAYW

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EUST				2	A
CEWA				2	A
BOBO	2	3			A
SAUS	1	1			O
YEWA		1			O
RWBL		1			O
EAKI		1			O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P51/273 (G32)

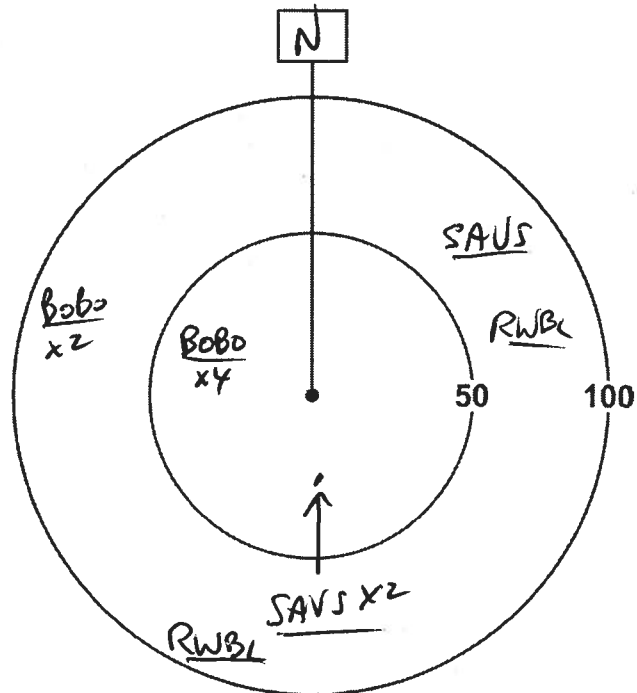
Habitat: Forest Swamp Marsh Hay Pasture Crop

June 23, 2011 ✓

UTM: _____

Start Time: 0915

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EUST				3	A
BOBO	4	2			O
RWBL		2			O
SAUS		3			O
RWBL				1	A
TRES				1	A
BOBO				1	A
MODO				1	A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓)

Signature: [Signature]
 (Field Personnel)

Signature: [Signature]
 (Project Manager)

Page _____ of _____

DAY 10

Station: P50 / 275

(W38)

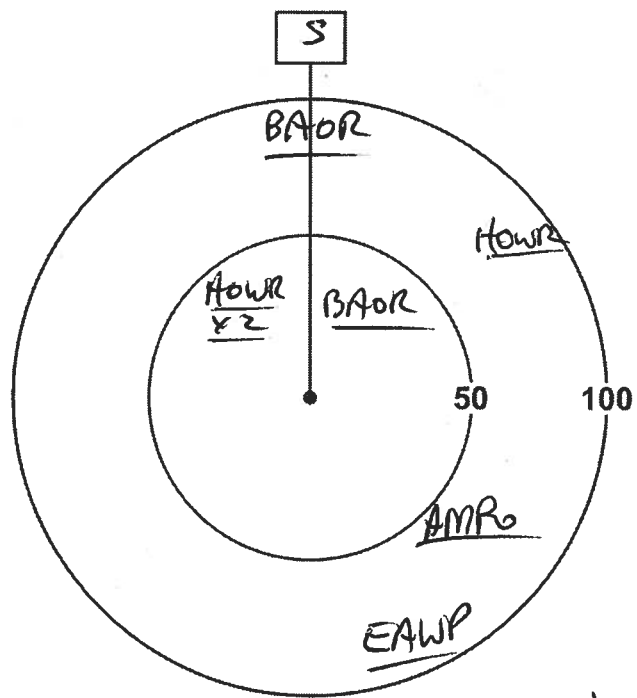
→ June 23, 2011
(correct date)

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0947

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
Howr	2	1			O
BAOR	1	1			O
EAWP		1			A
AMR6		1			O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P54 / 267

(G34) W43 (edge)

→ June 24, 2011 (correct)

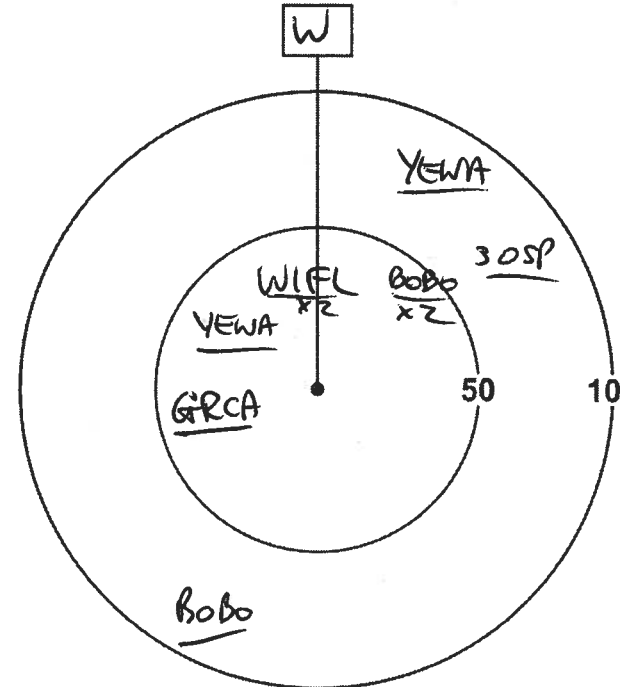
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0941

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
WIFL	2				O
GRCA	1				O
Yewa	1	1			O
Bobo	2	1			O
CEWA				1	A
BAOR				1	A
SOSP		1			O

Wax



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓).






Signature: _____
(Field Personnel)

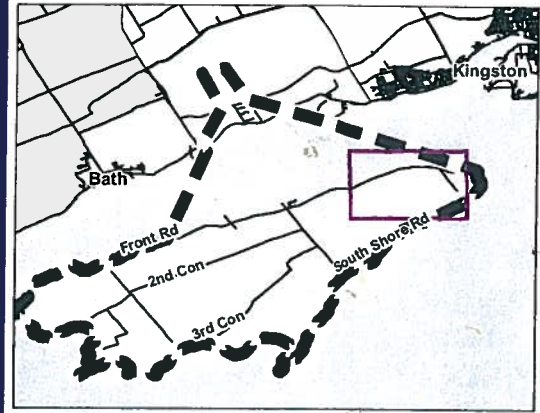
Signature: Kethi S
(Project Manager)

Page _____ of _____



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

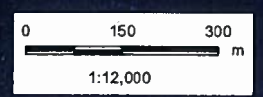
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 9

Title

FIELD MAPBOOK





Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

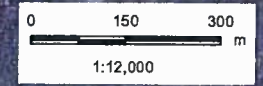
Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 5

Title

FIELD MAPBOOK





Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 25, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>16</u>	WIND: <u>W (2)</u>	CLOUD: <u>90</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>light</u>
---------------------	-------------------------	-----------------------	---------------------	------------------	---------------------------------------

Feature No.: G29 Habitat Type: _____ Time Start: 0536 Time End: 0632

0703 0745

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Delaware Delaware

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren S		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † S P P	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. † P P	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡ HP P		No. Flicker †		Hermit Thrush ‡		Swamp Sp. S S	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin H H		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk P P		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † A A	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A A	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † S S	
Killdeer		Ea. Kingbird † P N		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. S S		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 7

Quality Control: This form is complete & legible

Signature: AW
(Field Personnel)

Signature: Katrina
(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W38

Habitat Type: _____

Time Start: 0632
0842

Time End: 0703
0908

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S A	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren S S		Eastern Towhee † SM S	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡		No. Flicker † S S		Hermit Thrush ‡		Swamp Sp. S S	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † S S		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † S S		Am. Robin S S		No. Cardinal H H	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird S S		Rose-br. Grosbeak † HP P	
Red-tailed Hawk PA A		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling H H		Red-winged Bl. A A	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle H H	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. S S		Baltimore Oriole † SM S	
Am. Woodcock H H		Red-eyed Vireo S S		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay H H		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow A A		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 7

Signature: [Signature]
(Field Personnel)

Quality Control: This form is complete & legible .

Signature: [Signature]
(Project Manager)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 25, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>20</u>	WIND: <u>W (1)</u>	CLOUD: <u>100</u>	PPT: <u>trace</u>	PPT (in last 24 hrs): <u>—</u>
---------------------	-------------------------	-----------------------	----------------------	----------------------	-----------------------------------

Feature No.: G33 Habitat Type: _____ Time Start: 0810 Time End: 0842
0908 0915

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>S</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	<u>P</u> <u>P</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	<u>S</u> <u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † <u>H</u>	<u>H</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	<u>A</u> <u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † <u>H</u>	<u>H</u>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡ <u>H</u>	<u>H</u>	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>S</u> <u>S</u>	<u>S</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.	<u>X</u>	Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

3 Pg 7 of 7

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W43 Habitat Type: _____ Time Start: 0915 Time End: 0950

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl H	H	Bl-capped Chickadee P	P	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren S	S	Eastern Towhee † S	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture H	H	Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. A S	A
N. Harrier †‡		No. Flicker † MA	A	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin H	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird H	H	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † H	H	Blue-wing. Wa. †		Co. Grackle H	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. S	S	Baltimore Oriole †	
Am. Woodcock H	H	Red-eyed Vireo S	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay A	A	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow A	A	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 7

Signature: _____

AW
 (Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Katrin
 (Project Manager)



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 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 25, 2011

Field Personnel: Alan Warmington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	22	W (1)	100	trace	High

Feature No.: A36 Habitat Type: _____ Time Start: 0950 Time End: 1029

1047 1100

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡‡	
Pied-b. Grebe		Whip-poor-will ‡‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren S	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † S	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. † SM	S
Osprey		Hairy Wo.		Veery		Song Sp. S	S
³ N. Harrier †‡ H H		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk P P		Willow Fly. † H H		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † P A	P A
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. H H	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † H H	
Killdeer		Ea. Kingbird † P P		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe S S		Warbling Vireo		Yellow Wa. S S		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch P P	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 7

Quality Control: This form is complete & legible

Signature: AW
 (Field Personnel)

Signature: Katrina
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W45 Habitat Type: _____ Time Start: 1029 Time End: 1040

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. S S	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin H H		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird S S		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A A	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle H H	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. SM S	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe SFA		Warbling Vireo		Yellow Wa. S S		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch P P	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 6 of 7

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Katrina
 (Project Manager)



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 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 25, 2011

Field Personnel: Alan Warmington

Weather Conditions:	TEMP (°C): <u>23</u>	WIND: <u>SW (2)</u>	CLOUD: <u>100</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>trace</u>
---------------------	-------------------------	------------------------	----------------------	------------------	---------------------------------------

Feature No.: Q35 Habitat Type: _____ Time Start: 1035 Time End: 1047

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>HP</u>	<u>P</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <u>H</u>	<u>H</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † <u>S</u>	<u>S</u>
Virginia Rail		Ea. Phoebe		European Starling	<u>X</u>	Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark † <u>S</u>	<u>S</u>
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>B</u>	<u>CF</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	<u>X</u>
Common Tern		Purple Mart.	<u>X</u>	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	<u>N</u>	Pine Wa. ‡			
Mourn. Dove	<u>P</u>	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 7

Signature: AW

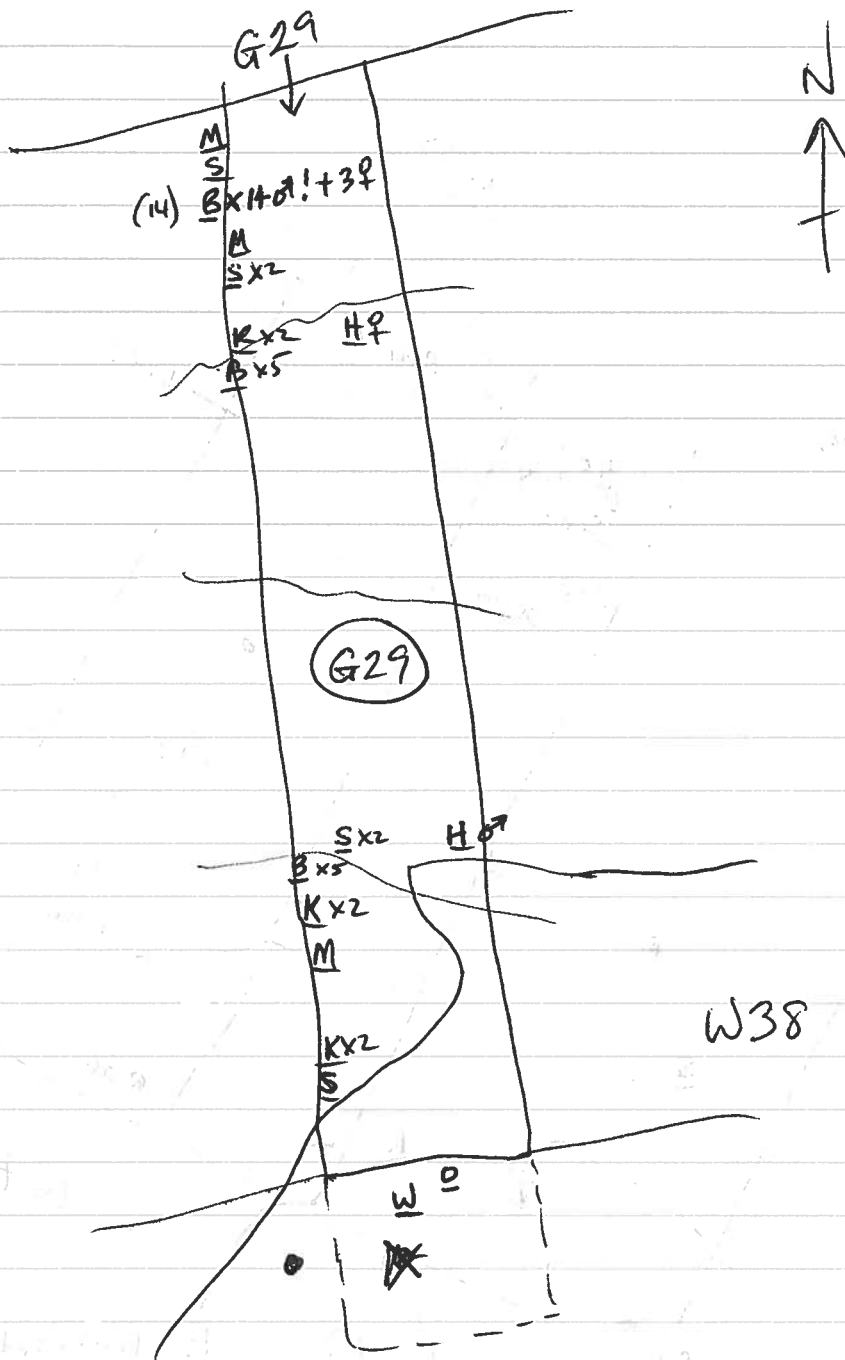
(Field Personnel)

Quality Control: This form is complete & legible

Signature: Katrina

(Project Manager)

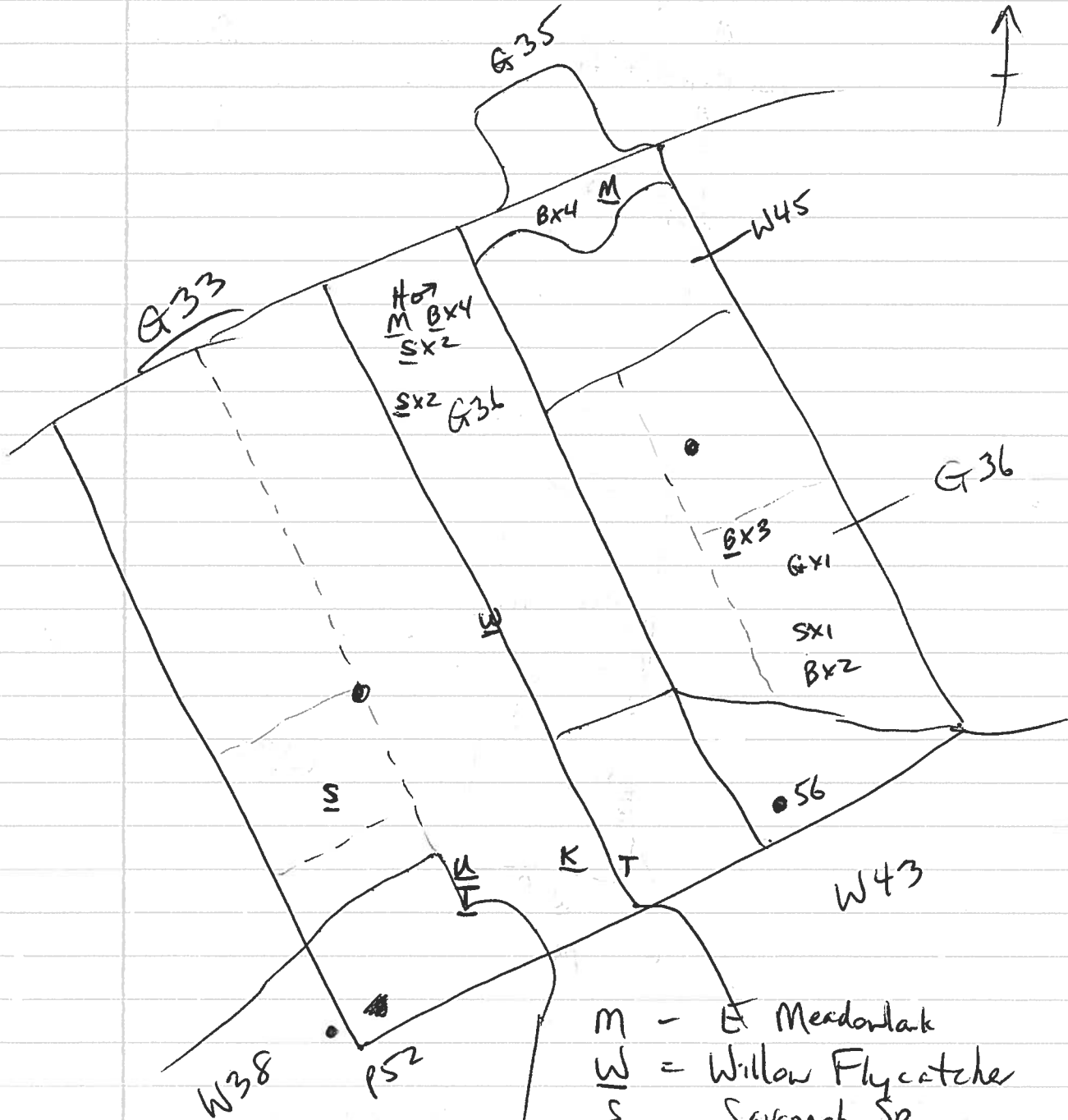
DAY 11 - June 25, 2011



- M - E Meadowlark
- S - Sav Sparrow
- B - Bobolink
- H - N Harrier
- K - E Kingbird

- ⊙ - B. Oriole
- W - Wood Thrush

DAY 11 - June 25, 2011



H No. the Heron

- M - E Meadowlark
- W = Willow Flycatcher
- S Savannah Sp
- U Upland Sandp
- T E Towhee
- K E Kingbird
- B Boblink
- G Grasshopper Sp.



Stantec

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70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160 960595 Project Name: Amherst
Date June 25, 2011 Field Personnel: Alan Worthington

Weather Conditions: Temp: 16 Wind: W 1 Cloud: 80 PPT: 0 PPT in last 24 hrs: light

GPS #: T__

G29

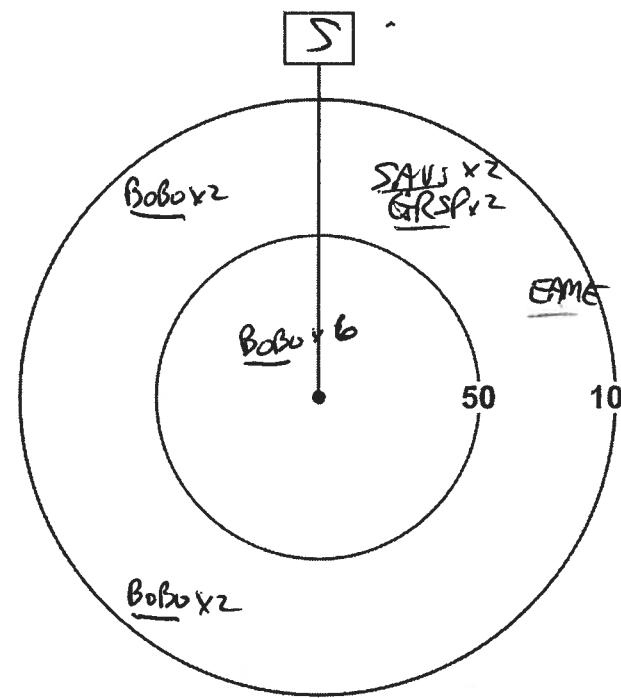
Station: P45 / 278

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0558

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
EAKI				1	A
BOBO	6	4			O
SALS		2			O
GRSP		2			O
EAME		1			A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()

Signature: _____
(Field Personnel)

Signature: Kathie
(Project Manager)

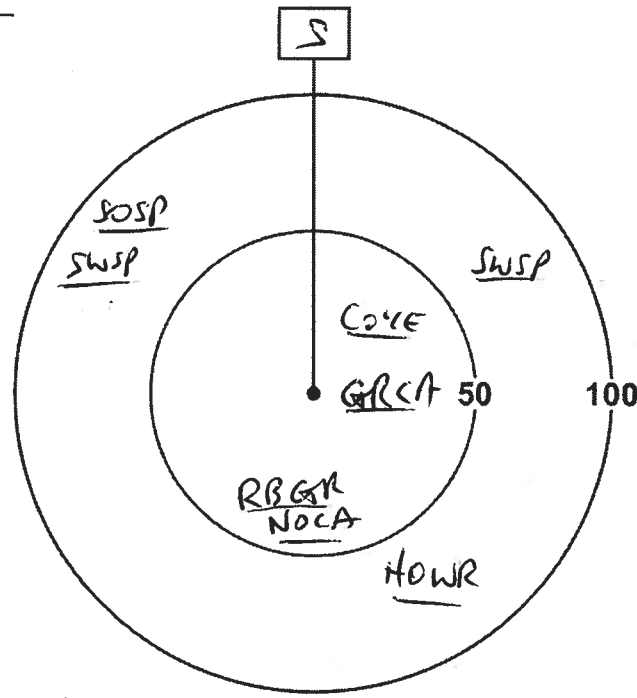
Station: P46 / 279 (W38)

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0647

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
SOSP	1				0
SWSP		2			0
COYE	1				0
GRCA	1				0
RBGR	1				0
NOCA	1				0
HOWR		1			0



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

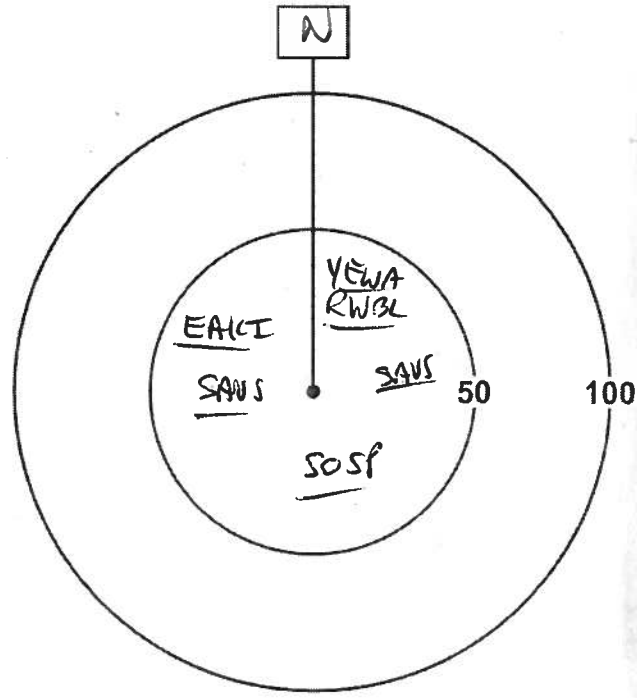
Station: P53 / 281 (G33)

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0818

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RWSW				1	A
EAKI	1				0
SAUS	2				0
SOSP	1				0
RWBL	1				0
YENA	1				0



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()
 Signature: _____
 (Field Personnel)

Signature: _____
 (Project Manager)

Station: P52/282

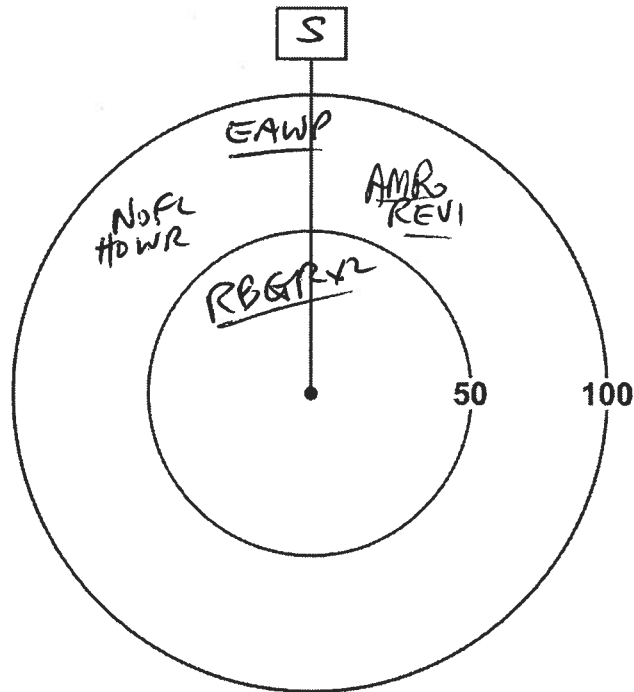
W38

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0848

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RBGR	2				A
REVI		1			A
AMRO		1			D
NoFL		1			A
HOWR		1			O
EAWP		1			A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P56/283

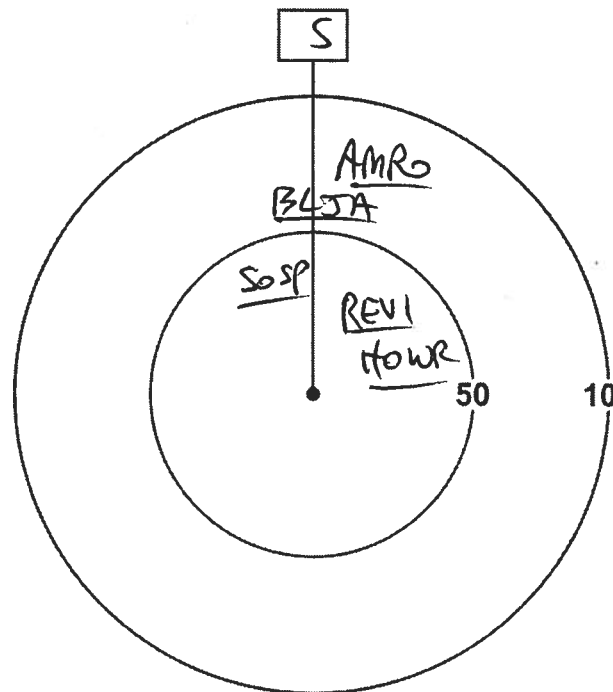
W43

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0928

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
REVI	1				A
SOSP	1				O
AMRO		1			O
BLJA		1			A
HOWR	1				O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()

Signature: _____

Signature: [Signature]

(Field Personnel)

(Project Manager)



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned

G-37
DKV



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 9

Title
FIELD MAPBOOK



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595 Project Name: Amherst
Date June 26, 2011 Field Personnel: Alan Wormington

Weather Conditions:	Temp: <u>18</u>	Wind: <u>W 1</u>	Cloud: <u>80</u>	PPT: <u>0</u>	PPT in last 24 hrs: <input checked="" type="checkbox"/>
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GPS #: T__

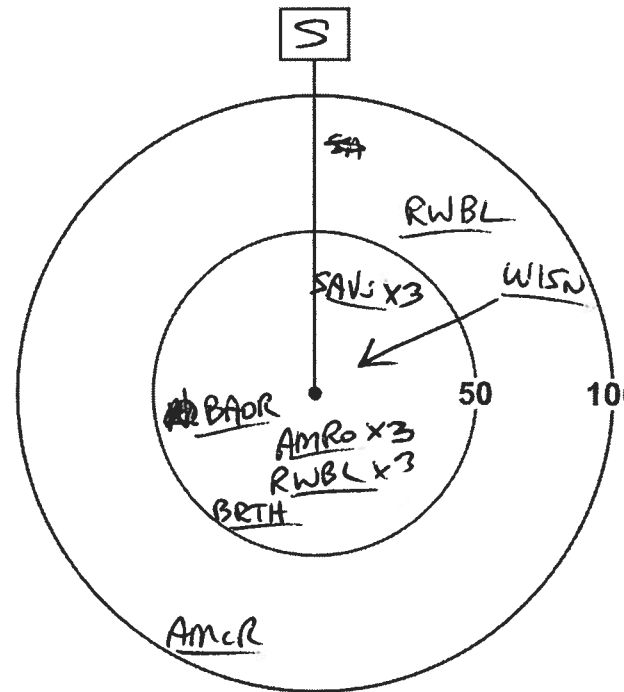
Station: P58 / 287 (G37)

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0618

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
WISN	1				B
BARS				5 5	A
KILL				4	A
SAVS	3				O
AMRO	3				A
RWBL	3	1			A
BRTH	1				A
AMCR		1			A
BAOR	1				A
UPSA	1			1	A



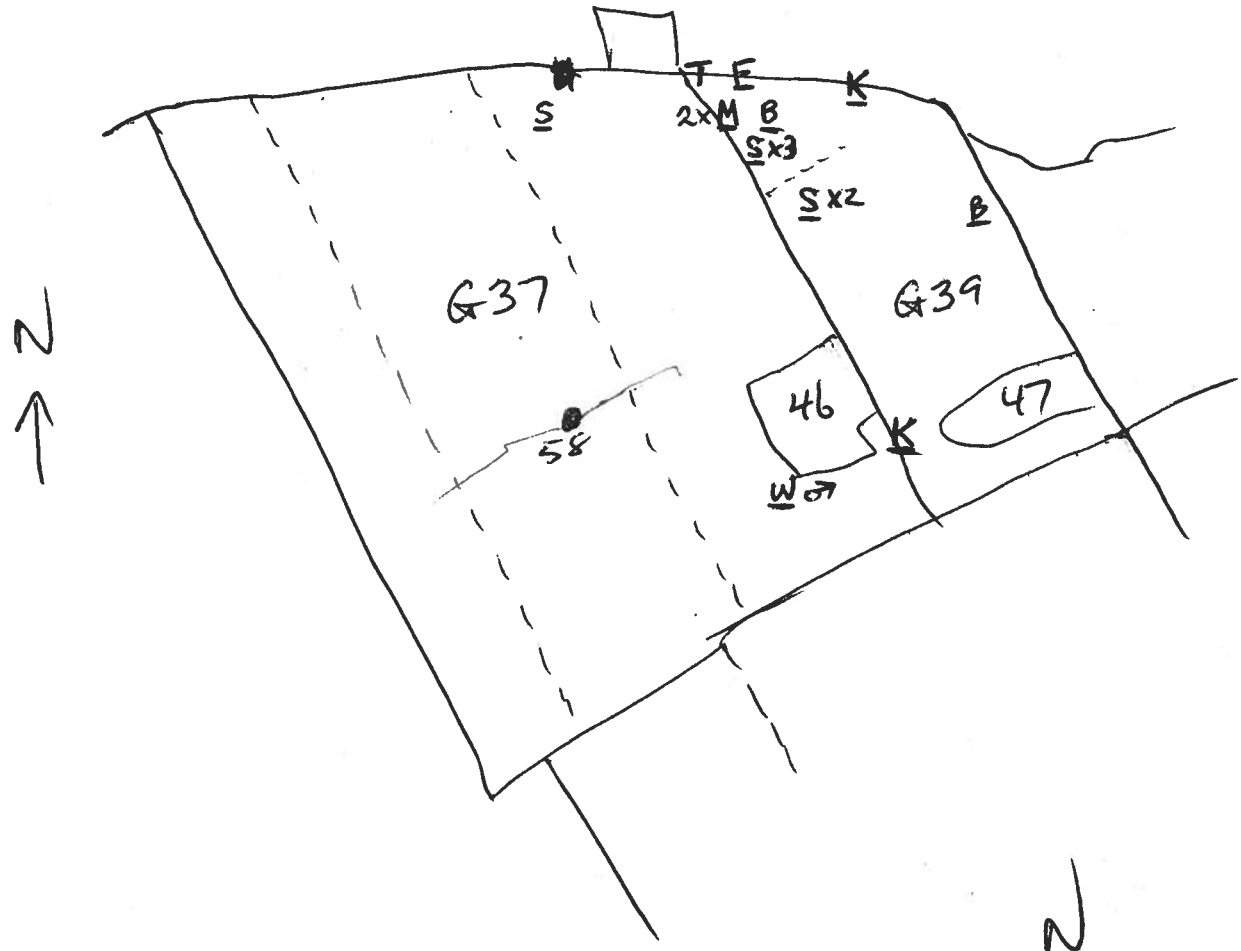
*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()

Signature: _____
(Field Personnel)

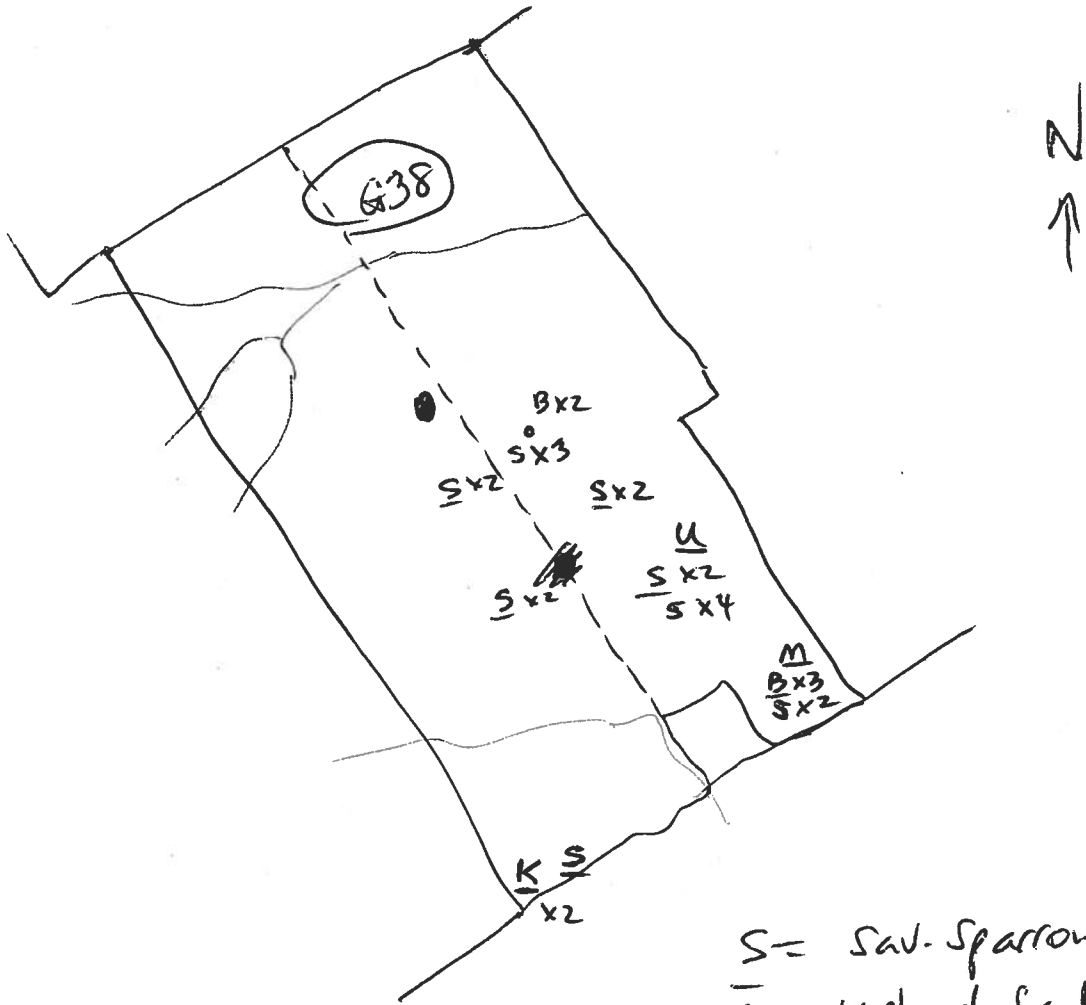
Signature: Katrina
(Project Manager)

June 26, 2011 - DAY 12



- T Brown Thrasher
- S Savannah Sparrow
- W Mourning Warbler
- K E Kingbird
- B Bobolink
- M E Meadowlark
- F Willow Flycatcher

June 26, 2011 - DAY 12



- S = Sav. Sparrow
- U = Upland Sand
- B = Bobolink
- M = E Meadowlark
- K = E Kingbird
-



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 26, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>W ①</u>	CLOUD: <u>80</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>—</u>
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Feature No.: G37 Habitat Type: _____ Time Start: 0558 Time End: 0635

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	N	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	S S
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	S S
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S P P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	CP	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	HS S	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	N	Red-winged Bl.	A A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer	A A	Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	A A	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S S	Warbling Vireo		Yellow Wa.	S S	Baltimore Oriole †	SM S
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	A A	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	N N
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	H H	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 5

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W46 Habitat Type: _____ Time Start: 0635 Time End: 0646

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>S</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † <u>S</u>	<u>S</u>	Am. Robin <u>S</u>	<u>S</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>A</u>	<u>A</u>	Rose-br. Grosbeak †	
Red-tailed Hawk <u>A</u> <u>A</u>		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling <u>A</u>	<u>A</u>	Red-winged Bl.	
Sora		Gr. Crested Fly. <u>S</u>	<u>S</u>	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle <u>H</u>	<u>H</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo <u>S</u>	<u>S</u>	Yellow Wa. <u>S</u>	<u>S</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo <u>S</u>	<u>S</u>	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <u>P</u>	<u>P</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 5

Signature: [Signature]
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: [Signature]
 (Project Manager)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 26, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>W (1)</u>	CLOUD: <u>80</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>—</u>
---------------------	-------------------------	-----------------------	---------------------	------------------	-----------------------------------

Feature No.: G39 Habitat Type: _____ Time Start: 0650 Time End: 0703

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	SM S	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	H S S	Bobolink †	S S
Virginia Rail		Ea. Phoebe		European Starling	H FY	Red-winged Bl.	A A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	H P
Killdeer		Ea. Kingbird †	H H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	S S	Warbling Vireo		Yellow Wa.	S S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 5

Signature: _____

AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Kathie

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W47 Habitat Type: _____ Time Start: 0726 Time End: 0736

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	A	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡	
Pied-b. Grebe		Whip-poor-will ‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier ‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin S H S		No. Cardinal	
Red-shou. Hawk ‡		Alder Fly.		Gray Catbird S S		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A A	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. H H	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. S S		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove	S S	Tree Swallow H H		Pine Wa. ‡			
Mourn. Dove	S S	No. R. W. Swal.		Cerulean Wa** ‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 4 of 5

Signature: _____

AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Korbin

(Project Manager)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 26, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>W ①</u>	CLOUD: <u>90</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>trace</u>
---------------------	-------------------------	---------------------	---------------------	------------------	---------------------------------------

Feature No.: G38 Habitat Type: _____ Time Start: 0750 Time End: 0842

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Common Loon on lake, close to shore

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant	SM S	Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	P P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	A CF	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	P P
Virginia Rail		Ea. Phoebe		European Starling	X	Red-winged Bl.	A A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	S S
Killdeer		Ea. Kingbird †	P P	Blue-wing. Wa. †		Co. Grackle	A
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	A	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	SM S	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	H H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	N N
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	X	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.	H	Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 5

Signature: AW

(Field Personnel)

Quality Control: This form is complete & legible .







Signature: Kathie

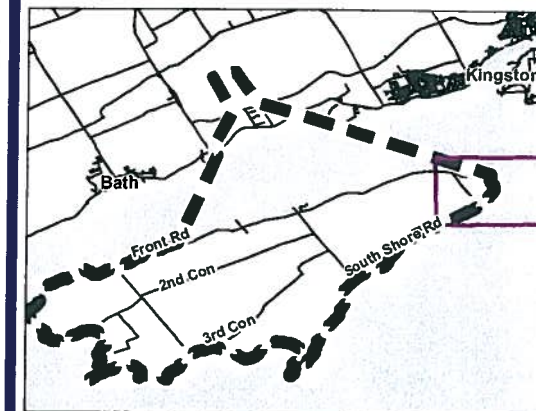
(Project Manager)

REV: 2011-05-27 / FORM 031



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optional
-  Not Optional



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 10







Title

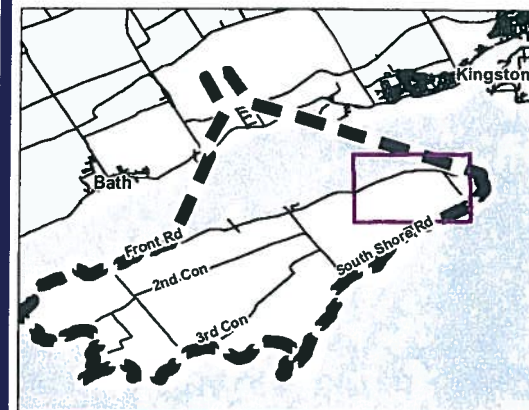
FIELD MAPBOOK





Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

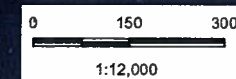
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 9

Title

FIELD MAPBOOK





- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
- Property Status**
- Optioned
 - Not Optioned



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



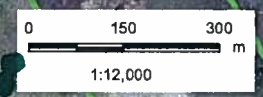
Stantec

May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 4

Title
FIELD MAPBOOK





Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 24, 2011

Field Personnel: Alan Worthington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>S (2)</u>	<u>100</u>	<u>0</u>	<u>lots!</u>

Feature No.: W44 Habitat Type: _____ Time Start: 0525 Time End: 0535

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

NW of P53/281

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡ S	S
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee S	S	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren SM	S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † SM	S	Am. Robin S	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird S	S	Rose-br. Grosbeak † S	S
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. SM	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † H	H	Blue-wing. Wa. †		Co. Grackle N	H
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo SM SM	S	Yellow Wa. S	S	Baltimore Oriole † A	A
Am. Woodcock		Red-eyed Vireo S	S	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove S	S	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 6

Quality Control: This form is complete & legible .

Signature: AW
 (Field Personnel)

Signature: Katherine Sh
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W23 Habitat Type: _____ Time Start: 0548 Time End: 0558

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	H	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin S S		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird S S		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	FY	Red-winged Bl. A A	
Sora		Gr. Crested Fly. H SM	S	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † H	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove S	S	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

E Meadowlark opposite side of road (South)

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Katrina
 (Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 24, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>S (2)</u>	CLOUD: <u>100</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>lots!</u>
---------------------	-------------------------	-----------------------	----------------------	------------------	---------------------------------------

Feature No.: W22 Habitat Type: _____ Time Start: 0602 Time End: 0625

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

* N = N section
 # S = S section (towards west side of road)

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl * FY		Bl-capped Chickadee H H		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † * S	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S	FY
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin H H		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird S A A		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. S S	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. S S		Baltimore Oriole † * S S	
Am. Woodcock		Red-eyed Vireo S H S		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay H H		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove S S		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 6

Quality Control: This form is complete & legible .

Signature: AW
 (Field Personnel)

Signature: Ketina
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: G41 Habitat Type: _____ Time Start: 0640 Time End: 0730

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	Y	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <i>SM</i>	<i>S</i>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	<i>S</i> <i>S</i>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	<i>S</i> <i>S</i>
N. Harrier †‡	<i>H</i> <i>H</i>	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	<i>HA</i> <i>A</i>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †	<i>SM</i> <i>S</i>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	<i>P</i> <i>FY</i>
Virginia Rail		Ea. Phoebe		European Starling	<i>H</i> <i>H</i>	Red-winged Bl.	<i>A</i> <i>A</i>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	<i>S</i> <i>S</i>
Killdeer		Ea. Kingbird †	<i>H</i> <i>H</i>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	<i>SM</i> <i>S</i>	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	<i>SM</i> <i>S</i>	Warbling Vireo		Yellow Wa.	<i>S</i> <i>S</i>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	<i>HA</i>	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

different look? stems darker purple veins

Signature: *AW*
 (Field Personnel)

Quality Control: This form is complete & legible .

Signature: *Katrine*
 (Project Manager)



Stantec Consulting Ltd.
 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 24, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>S (2)</u>	CLOUD: <u>90</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>lots!</u>
---------------------	-------------------------	-----------------------	---------------------	------------------	---------------------------------------

Feature No.: G40 Habitat Type: _____ Time Start: 0737 Time End: 0815

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

0850

0908

Species	BE*	Species	BE*	Species	BE*	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †	X	Bl-and-wh Wa. ‡
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †
Green Heron	X	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † A A
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †
Osprey		Hairy Wo.		Veery		Song Sp. S S
N. Harrier †‡	P P	No. Flicker †		Hermit Thrush ‡		Swamp Sp.
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †
Red-tailed Hawk	A A	Willow Fly. †		No. Mockingbird		Indigo Bunt.
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink † P P
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. FY
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark ‡
Killdeer		Ea. Kingbird † H H		Blue-wing. Wa. †		Co. Grackle
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow
Common Tern		Purple Mart.	NY	Blackburnian Wa. ‡		Other Species ...
Rock Dove		Tree Swallow	FY	Pine Wa. ‡		<u>W Phalarope H DD</u>
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡		

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 6

Quality Control: This form is complete & legible

Signature: _____

[Handwritten Signature]

(Field Personnel)

Signature: _____

[Handwritten Signature]

(Project Manager)

Feature No.: MS

Habitat Type: _____

Time Start: 0812

Time End: 0856

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose	FY	Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard	H H	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern	2 P	Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron	1 X	Red-headed Wo** †		Mars. Wren 180930 S		Field Sp. †	
Gr. Egret	2 X	Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron	1 X	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † P P	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	X	Red-winged Bl.	FY
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer	DP	Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper	PA A	Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	180930 S P	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	X	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull	X	Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern	X	Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.	X	Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡		Am. Wigeon	X
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡		W Phalarope 12+ ADD	X

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario

Too chaotic to conduct a proper point count.

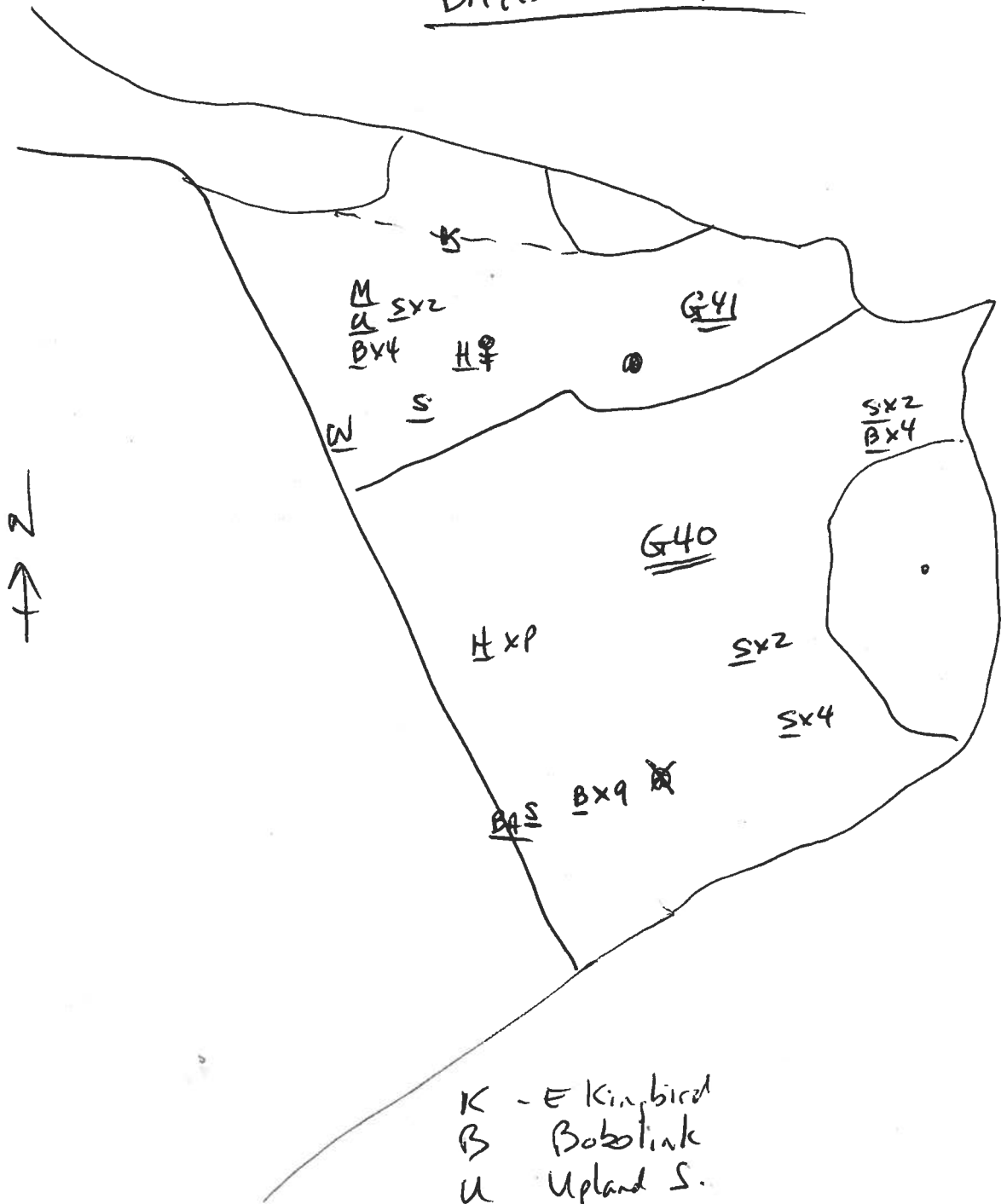
- Gadwall P
- Am Wigeon X
- Bl-cr Night-Hero X
- Caspian Tern X
- GW Teal H
- White-rumped Sandp X
- L. Yellowlegs X
- N. Pintail X

Pg. 6 of 6

Signature: [Signature]
(Field Personnel)

Quality Control: This form is complete & legible
Signature: [Signature]
(Project Manager)

DAY 13 - June 24, 2011



- K - E Kingbird
- B Bobolink
- U Upland S.
- W Willow Fly
- M E Meadowlark
- S Savannah Sp
- H Harrier
- BA Bank Swallow



Stantec

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Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595
Date June 24, 2011

Project Name: Amherst
Field Personnel: Alan Wormington

Weather Conditions: Temp: 22 Wind: S (2) Cloud: 90 PPT: 0 PPT in last 24 hrs: lots!

GPS #: T

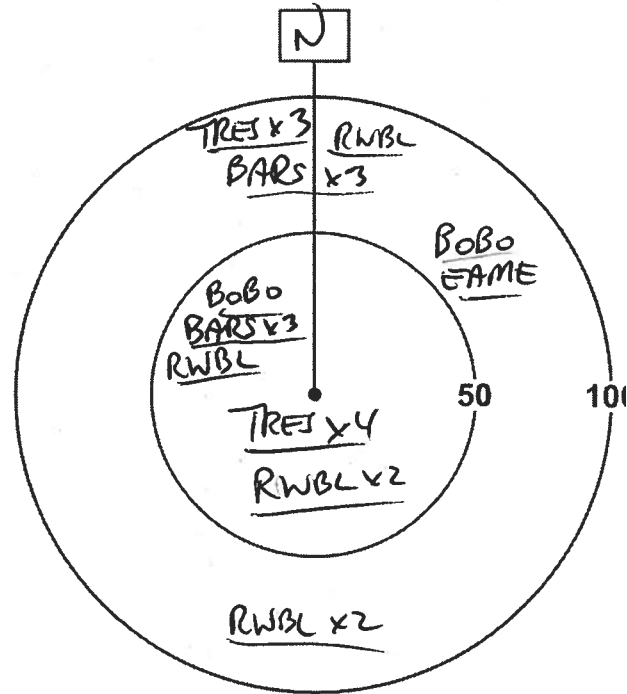
Station: P59/291 (G41)

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0703

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
BARs				<u>3</u>	<u>A</u>
TRES	<u>4</u>	<u>3</u>			<u>A</u>
EAKI				<u>1</u>	<u>A</u>
EWST				<u>1</u>	<u>A</u>
BARs	<u>3</u>	<u>2</u>			<u>O</u>
BARs		<u>3</u>			<u>A</u>
RWBL	<u>3</u>	<u>3</u>			<u>O</u>
BOBO	<u>1</u>	<u>1</u>			<u>O</u>
EAME		<u>1</u>			<u>D</u>



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ().

Signature: [Signature]
(Field Personnel)

Signature: [Signature]
(Project Manager)

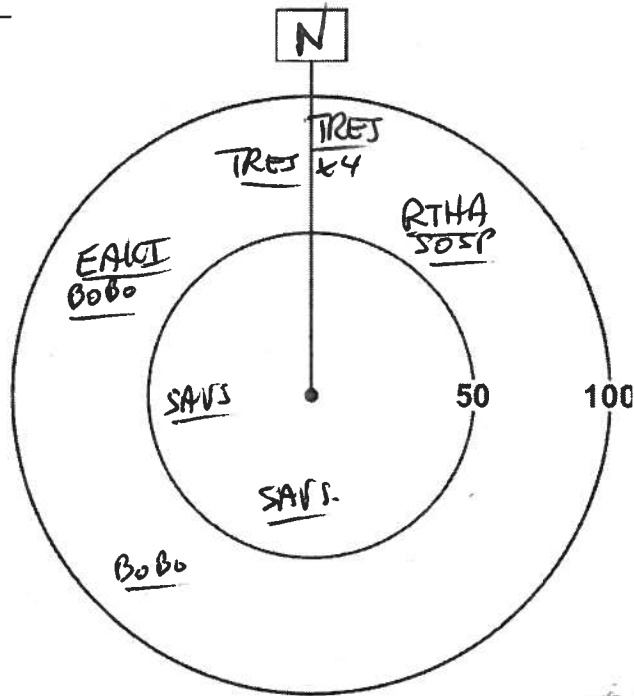
Station: P60/294 (G40)

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0750

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
TRES		1			O
TRES		4			A
TRES				1	A
PUMA				4	A
WIPH				1	A
DCCO				1 5	B
NOHA				1	A
EAKI		1			O
BOBO		2			O
SAVS	2				O
SOSP		1			O
RTHA		1			A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

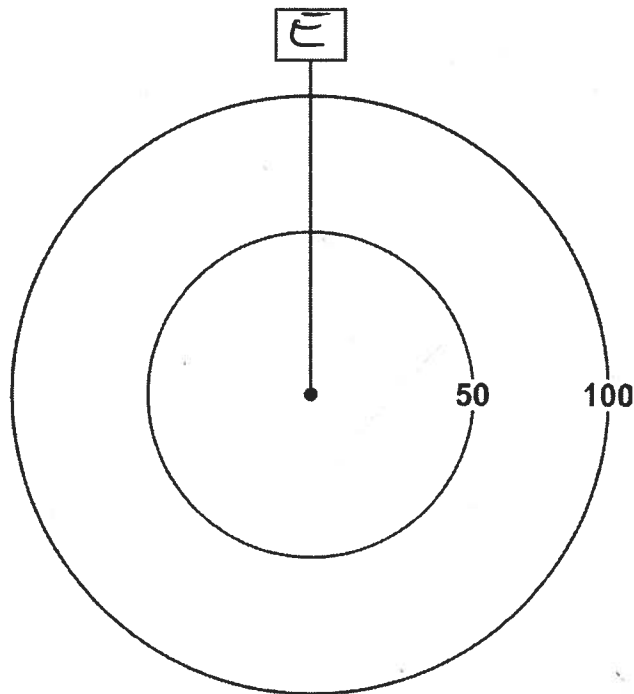
Station: P61/302 (M5)

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0815

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
AMWI		8			O
CATE		13 3			O
HERG		18			O
RBGW		6			O
MALL		18			O
GADW		5			O
EWST		30			O
WIPH	6	6			O
NOP1		1			O
KILL	6	6			O
SPSA	2				O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ()

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)



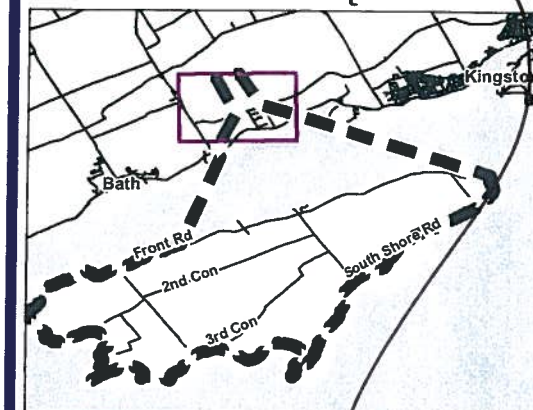
Legend

- Study Area
- Road
- Watercourse
- Amphibian Station

Property Status

- Optioned
- Not Optioned

2 territories
 ↓
 T = Brown Thrasher
 H = N Harrier
 M = E Meadowlark
 K = E Kingbird
 C = BB Cuckoo (2 sites)
 W = Willow Flycatcher



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008

total of 3 different territories



Stantec

May 2011
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 11

Title

FIELD MAPBOOK



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Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 27, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>16</u>	WIND: <u>0</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>trau</u>
---------------------	-------------------------	-------------------	--------------------	------------------	--------------------------------------

Feature No.: M4 Habitat Type: _____ Time Start: 0540 Time End: 0620

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.	X	Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard	FY	Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren	S	Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	S S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	X	Red-winged Bl.	A A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	X	Pine Wa. ‡		<u>Common Moorhen</u>	P
Mourn. Dove		No. R. W. Swal.	X	Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. ___ of ___

Signature: _____

AW
(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

Kathleen
(Project Manager)

REV: 2011-05-27 / FORM 031



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 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Stantec

**Breeding Bird Survey
 Observation Form**

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 27, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>0</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>Trace</u>
---------------------	-------------------------	-------------------	--------------------	------------------	---------------------------------------

Feature No.: G1 Habitat Type: _____ Time Start: 0805 Time End: 0814
0822 0913

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo † <u>H</u>	<u>H</u>	Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	<u>X</u>	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>S</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	<u>S</u>
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>S</u>	<u>S</u>
N. Harrier †‡ <u>H</u>	<u>H</u>	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>H</u>	<u>CF</u>	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. † <u>CF</u>	<u>N</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † <u>A</u>	<u>A</u>	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. <u>SP</u>	<u>P</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe <u>SM</u>	<u>S</u>	Warbling Vireo		Yellow Wa. <u>HP</u>	<u>P</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	<u>P</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	<u>H</u>	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. ___ of ___

Quality Control: This form is complete & legible

Signature: _____

AN
 (Field Personnel)

Signature: _____

Katherine
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: G2

Habitat Type: _____

Time Start: 0755

Time End: 0803

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	X	Red-winged Bl. SM S	
Sora		Gr. Crested Fly.		Cedar Waxwing	X	Ea. Meadowlark †	
Killdeer		Ea. Kingbird † X	H	Blue-wing. Wa. †		Co. Grackle	X
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch W H	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	X	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

X E Kingbird - 1 on S side of road

Pg. ___ of ___

Quality Control: This form is complete & legible .

Signature: _____
(Field Personnel)

Signature: Katherine [Signature]
(Project Manager)



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 27, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>0</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	-------------------	--------------------	------------------	-----------------------------------

Feature No.: W2 Habitat Type: _____ Time Start: 0735 Time End: 0755

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

BB Cuckoo - W section, N side of road (one)
E Kingbird - " " " " " (one)
2

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †	<u>H</u>	Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	<u>X</u>	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee	<u>P</u>	No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	<u>S</u>
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	<u>S</u>	Eastern Towhee †	<u>S</u>
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡	<u>S</u>	Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	<u>S</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	<u>H</u>	No. Cardinal	<u>H</u>
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	<u>SCF</u>	Rose-br. Grosbeak †	<u>CF</u>
Red-tailed Hawk	<u>H</u>	Willow Fly. †	<u>H</u>	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	<u>A</u>	Bobolink †	<u>A</u>
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	<u>H</u>
Sora		Gr. Crested Fly.		Cedar Waxwing	<u>H</u>	Ea. Meadowlark †	<u>H</u>
Killdeer		Ea. Kingbird †	<u>HP</u>	Blue-wing. Wa. †	<u>P</u>	Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	<u>P</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	<u>P</u>
Wilson's Snipe		Warbling Vireo		Yellow Wa.	<u>S</u>	Baltimore Oriole †	<u>S</u>
Am. Woodcock		Red-eyed Vireo	<u>S</u>	Chestnut-s. Wa.	<u>S</u>	Purple Finch	<u>S</u>
Ring-b. Gull		Blue Jay	<u>P</u>	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	<u>H</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	<u>P</u>
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	<u>H</u>	No. R. W. Swal.	<u>H</u>	Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. ___ of ___

Quality Control: This form is complete & legible

Signature: _____

Signature: _____

(Field Personnel)

(Project Manager)

Feature No.:

W1

Habitat Type:

Time Start:

0805

Time End:

0811

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. S	S
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. P	P
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. HP	P	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch S	S
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. ___ of ___

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: Katharine

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
 1 - 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Stantec

Project Number: 160 960 595

Project Name: Amherst

Date: June 27, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>16</u>	WIND: <u>0</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>trace</u>
---------------------	-------------------------	-------------------	--------------------	------------------	---------------------------------------

(some ground fog)

GPS #: T

Station: 62/298

Feature: _____

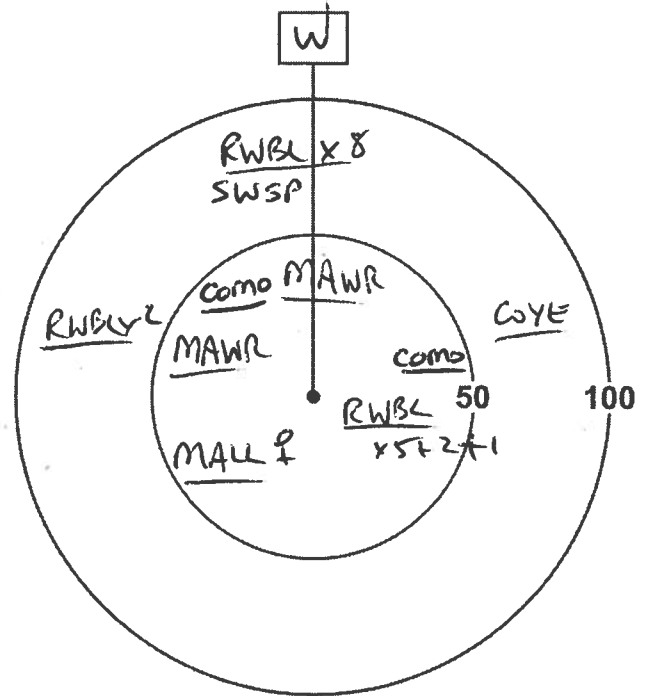
UTM: _____

Start Time: 0547

End Time: 0610

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
MALE				1	A
EAST				1	A
WCOMBLIZ					W
NRWS				1	A
RWBL	8	10			U
MALE	1				O
MAWR	2				O
COYE		1			O
* COMO	2				O



* Height of blade sweep varies from project to project; check with project manager.
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;
 C-Above height of blade sweep; D-Well above height of blade sweep

Birds on lake were ignored
 (cormorants etc.)

- one Snapping Turtle laying eggs on beach

* Comma Moorhen - 1st one responded to V-Rail + Sora calls; 2nd one to COMO calls (likely a pair)

Page ___ of ___

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible

Signature: [Signature]
 (Project Manager)



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number: 160960595 Project Name: Amherst
Date: June 27, 2011 Field Personnel: Alan Wormington

Weather Conditions:	Temp: <u>18</u>	Wind: <u>0</u>	Cloud: <u>0</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>trace</u>
---------------------	-----------------	----------------	-----------------	---------------	----------------------------------

GPS #: T__

Station: P2 / 299

W2

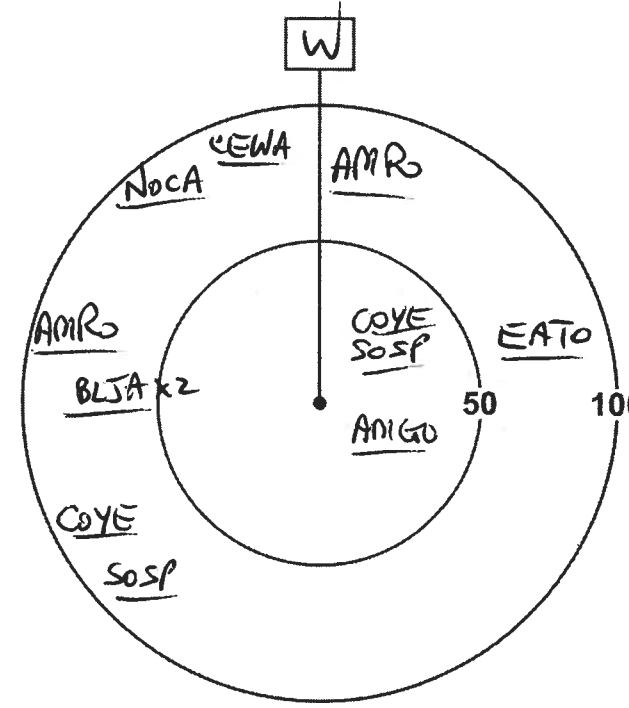
Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0737

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RWBL				1	A
AMRO		2			0
NOCA		1			0
COYE	1	1			0
SOSP	1	1			0
AMEU	1				0
CEWA		1			A
BLJA		2			0
EATO		1			0

Wawa









*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

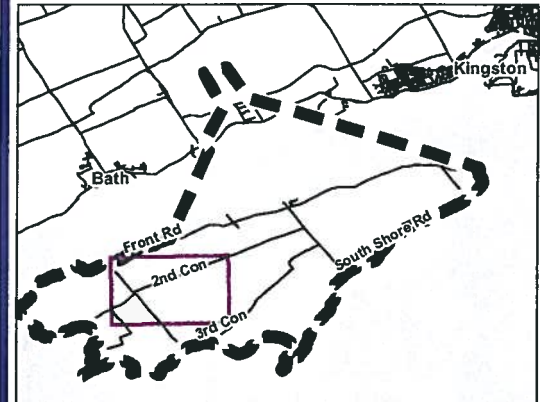
Quality Control: This form is complete () & legible ()
Signature: AW
(Field Personnel)

Signature: Kathleen Sun
(Project Manager)



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

Client/Project

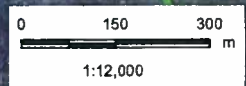
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 3







Title

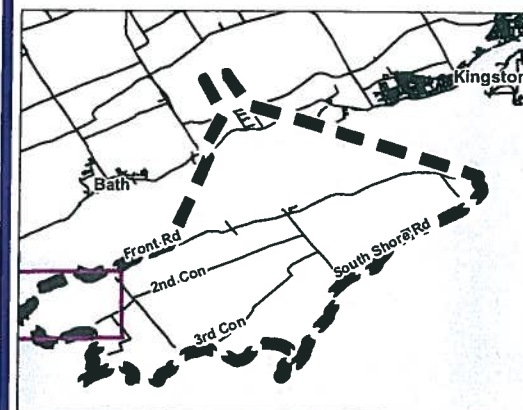
FIELD MAPBOOK





Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
180960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

Tile 1

Title

FIELD MAPBOOK

DAY 1

P3

P4

P5

P14

160

162

172

M1

G3

W3

G9

W3

G8

G7

G6

G5

W6 (roadside)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

**Breeding Bird Survey
Observation Form**
(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 30, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>16</u>	WIND: <u>NW (1)</u>	CLOUD: <u>16</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>trace overnight</u>
---------------------	-------------------------	------------------------	---------------------	------------------	---

Feature No.: M1 Habitat Type: _____ Time Start: 0520 Time End: 0615

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. P	P
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe S	S	Warbling Vireo S	S	Yellow Wa. S	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow H	H	Pine Wa. ‡			
Mourn. Dove S	S	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 1

Signature: AW
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Katrin SA
(Project Manager)

Feature No.: G3 Habitat Type: _____ Time Start: 0623 Time End: 0650

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>S</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>S</u>	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †	<u>X</u>	Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † <u>S</u>	<u>S</u>	Bobolink † <u>P</u>	<u>P</u>
Virginia Rail		Ea. Phoebe		European Starling	<u>FY</u>	Red-winged Bl. <u>CF A</u>	<u>CF</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	<u>FY</u>
Killdeer		Ea. Kingbird † <u>H</u>	<u>H</u>	Blue-wing. Wa. †		Co. Grackle <u>H</u>	<u>H</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡ <u>A</u>	<u>A</u>	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe <u>P</u>	<u>P</u>	Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch <u>A</u>	<u>H</u>
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 9

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Kathrine
 (Project Manager)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 30, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>NW (1)</u>	CLOUD: <u>10</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>trace overnight</u>
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Feature No.: W3 Habitat Type: _____ Time Start: 0647 Time End: 0735

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

~~With the exception of the following species...~~
~~Wormington~~
0750 → 0905

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee <u>HP P</u>		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>S S</u>	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee <u>M H T</u>	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	<u>CF</u>
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron <u>H H</u>		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>A A</u>	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † <u>S S</u>		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † <u>S S</u>		Am. Robin <u>H FY FY</u>		No. Cardinal <u>S S</u>	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>H S S</u>		Rose-br. Grosbeak † <u>S S</u>	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly. <u>P H P</u>		Cedar Waxwing <u>P P</u>		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. <u>P P</u>	<u>CF</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>S S</u>		Baltimore Oriole † <u>H H</u>	
Am. Woodcock		Red-eyed Vireo <u>S S</u>		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	<u>H H</u>	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow <u>H H</u>		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 9

Signature: Alan Wormington
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Ketwin
(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: 69 Habitat Type: _____ Time Start: 0725 Time End: 0750

Record location of all significant species on site map. 0903 0915

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S	Eastern Towhee †	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	S CF
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron	*	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S S
N. Harrier †‡	H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S	Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †	H	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡	H	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow	*	Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven	*	Yel-rumped Wa. ‡		Am. Goldfinch	P P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	X	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Upland - Overhead, nesting somewhere in 69?
Sandpiper
Fragrant Sumac

Pg. 4 of 9
 Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Kermin
 (Project Manager)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
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Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160 960 595
Date: June 30, 2011

Project Name: Amherst
Field Personnel: Alan Warmingto

Weather Conditions:	TEMP (°C): <u>20</u>	WIND: <u>0</u>	CLOUD: <u>20</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>trace only, LA</u>
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Feature No.: Q8 Habitat Type: _____ Time Start: 0805 Time End: 0817

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Map location of all significant species on site map
Map location of all significant species on site map

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † S S	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † H H		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe S S		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 9

Signature: Am / 1
(Field Personnel)

Quality Control: This form is complete & legible

Signature: Kathie
(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

67

Habitat Type:

Time Start:

0827

Time End:

0837

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin H	H	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † H	H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch H	H
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Black-bird

Pg. 6 of 9

Signature:

AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Kathrine

(Project Manager)

REV: 2011-05-27 / FORM 031



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 1 – 70 Southgate Drive
 Guelph, ON
 Canada N1G 4P5
 Tel: (519) 836-6050
 Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595
 Date: June 30, 2011

Project Name: Amherst
 Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>W (1)</u>	<u>20</u>	<u>0</u>	<u>light overnight</u>

Feature No.: G6 Habitat Type: _____ Time Start: 0843 Time End: 0850

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee † S	S
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	FY
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. A	H
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher † H	H	Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 9

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin
 (Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: GS

Habitat Type: _____

Time Start: 0852

Time End: 0858

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>PSA</u> <u>A</u>	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. † <u>PH</u> <u>P</u>	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>PSA</u> <u>A</u>	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

[Handwritten signature]

Pg. 8 of 9

Signature: AN
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Kathie
(Project Manager)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595
Date: June 30, 2011

Project Name: Amherst
Field Personnel: Alan Warmingto-

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>W (1)</u>	CLOUD: <u>20</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>light overnight</u>
---------------------	-------------------------	-----------------------	---------------------	------------------	---

Feature No.: W6 Habitat Type: _____ Time Start: 0922 Time End: 0932

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners in Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>S</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡†	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡†	
Pied-b. Grebe		Whip-poor-will ‡†		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>S</u>	<u>S</u>
N. Harrier ‡†		No. Flicker †		Hermit Thrush ‡		Swamp Sp. <u>S</u>	<u>S</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin <u>S</u>	<u>S</u>	No. Cardinal	
Red-shou. Hawk ‡†		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡†			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 9

Signature: AW
(Field Personnel)

Quality Control: This form is complete & legible
Signature: Kathryn
(Project Manager)



Stantec

Stantec Consulting Ltd.
70 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Project Number 160960595 Project Name: Amherst
Date June 30, 2011 Field Personnel: Alan Warmingto-

Weather Conditions: Temp: 16 Wind: NW ~~W~~ ① Cloud: 10 PPT: 0 PPT in last 24 hrs: light overnight

GPS #: T MI

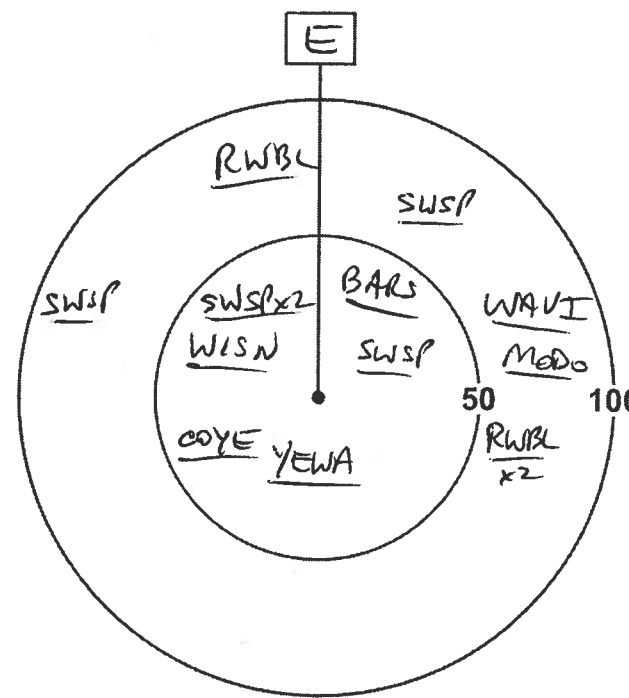
Station: P3

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0535

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
TRES				1	A
BARS	2				O
RWBL		3			O
WAVI		1			A
MoDo		1			A
SWSP	3	2			O
COYE	1				O
YEWA	1				O
WISN	1				B



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete () & legible ().
Signature: _____
(Field Personnel) AW

Signature: Kerstin S
(Project Manager)

Station: P4 / 160

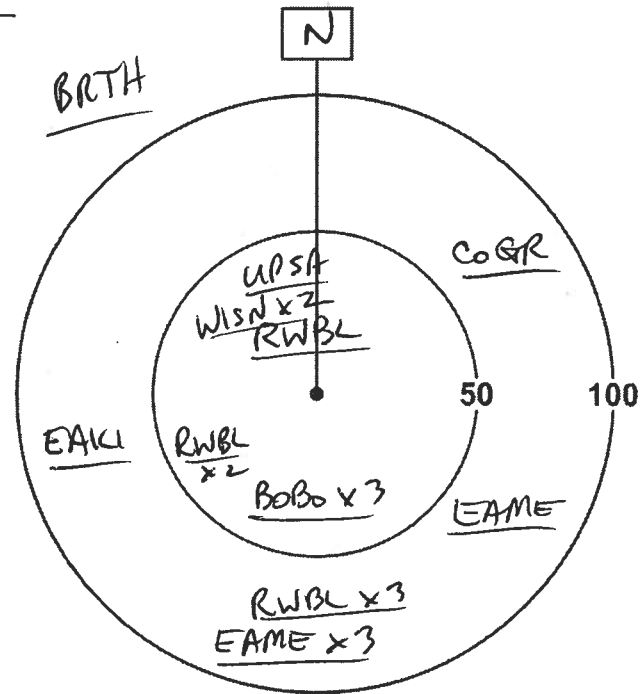
G3

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0628

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
RWBL				4	A
UPSA	1				O
WISN	2				A
EAME		4			O
EAKI		1			O
RWBL	3	3			O
BOBO	3				O
COGR		1			O
EUST				9	A
BRTH			1		O



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Station: P5 / 162

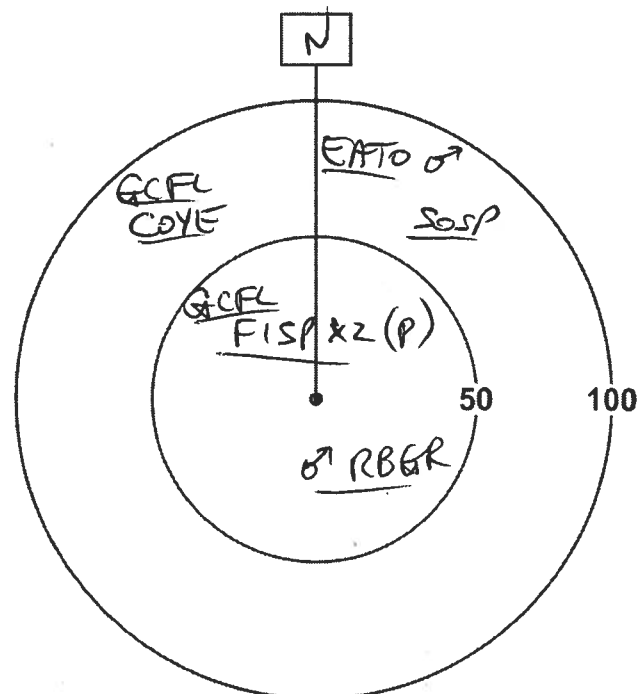
W3

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0703

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
GCFL	1	1			A
COYE		1			O
EATO		1			A
FISP	2				O
SOSP		1			O
RBGR	1				A

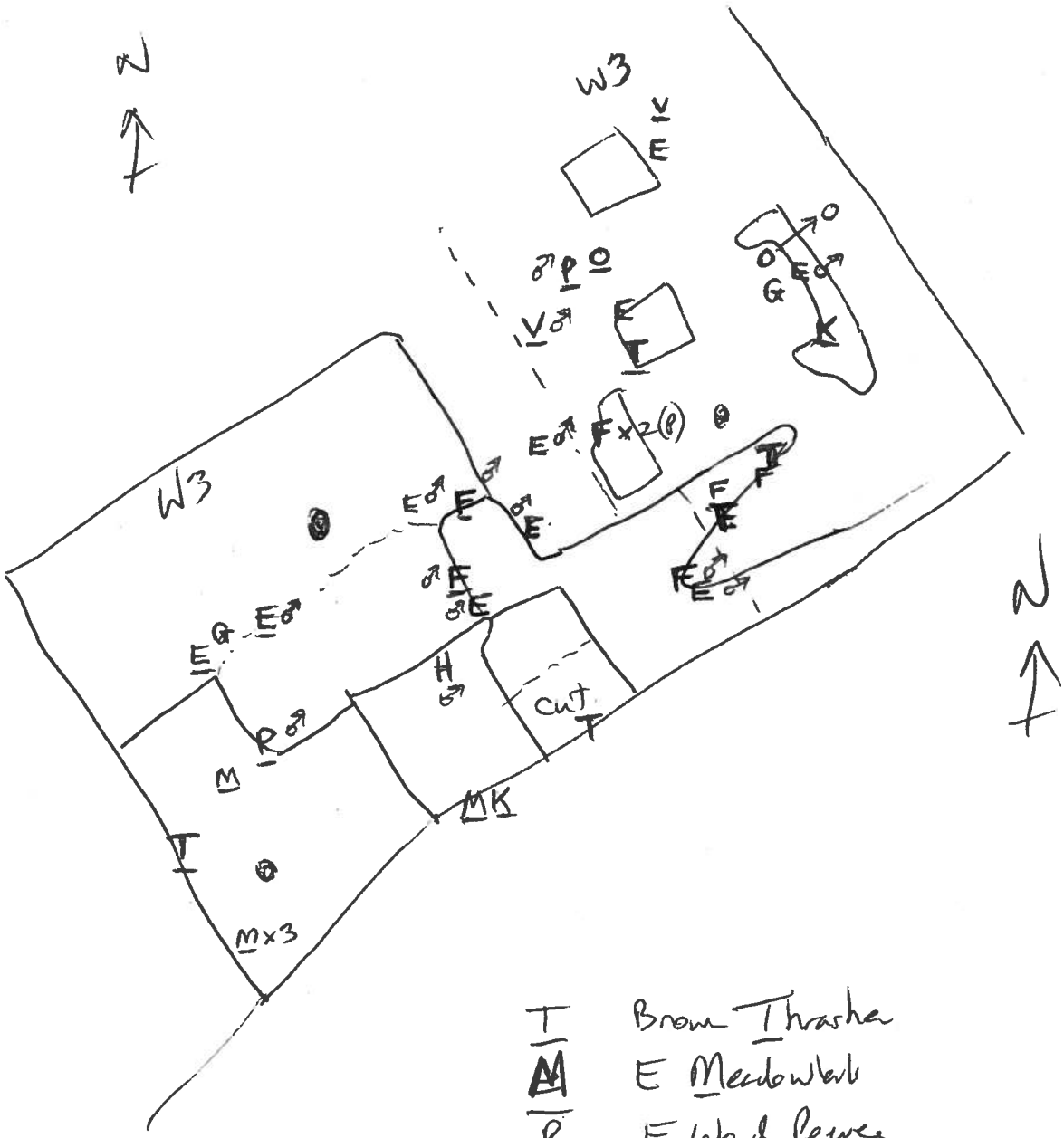


*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

Quality Control: This form is complete (✓) & legible (✓).

Signature: _____
 (Field Personnel) AW

Signature: Kathrin
 (Project Manager)

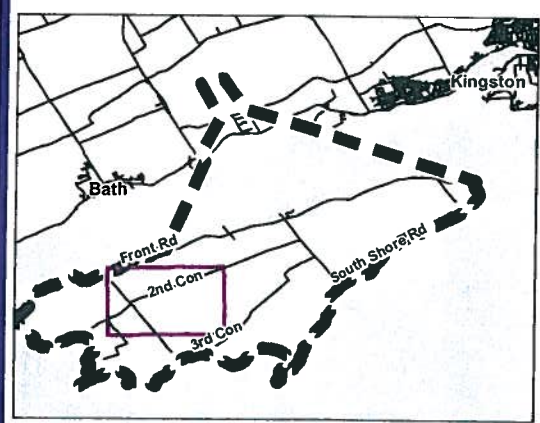


DAY 1
June 30, 2011

- T Brown Thrasher
- M E Meadowlark
- P E Wood Pewee
- E E Towhee
- G Rose-br. Grosbeak
- F Field Sparrow
- K E Kingbird
- O B Oriole
- V Ovenbird
- H N Harrier



- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
 - Property Status**
 - Optional
 - Not Optional



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions © 2011. Imagery Date: 2008

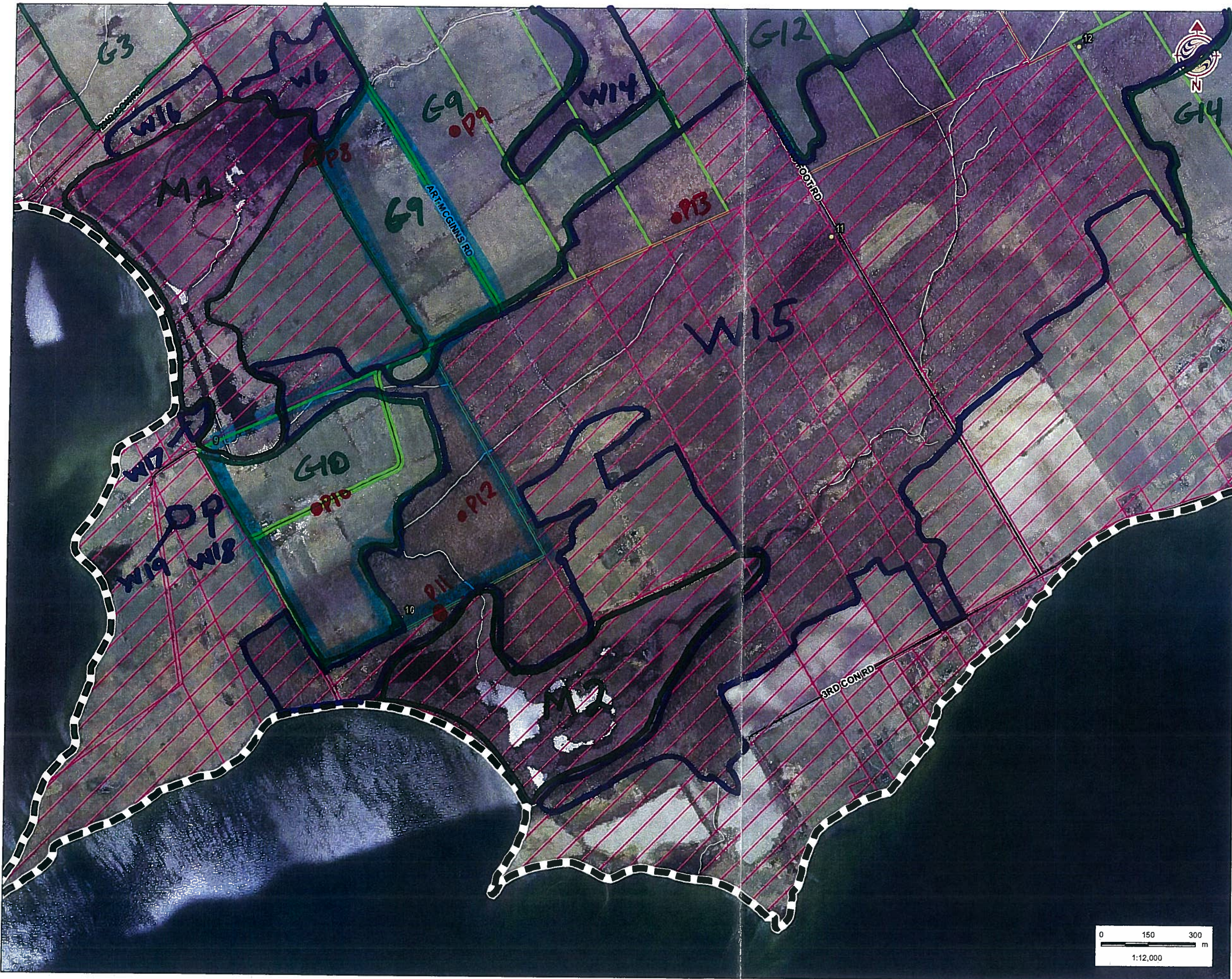


May 2011
160960595







Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

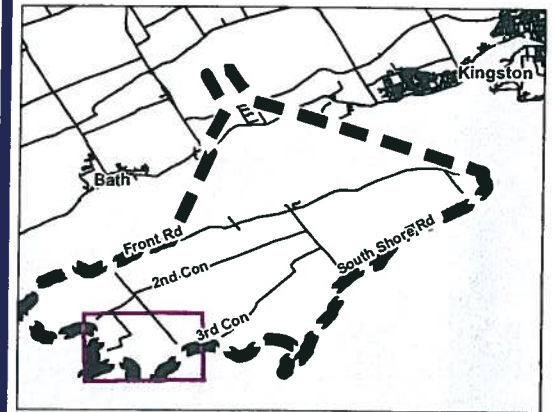
Figure No.
Tile 3

Title
FIELD MAPBOOK



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

May 2011
160960595

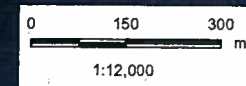
Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 2

Title

FIELD MAPBOOK



Day 2

	<u>Order</u>	<u>Point</u>	<u>GPS</u>	<u>Habitat</u>
✓	1			G10
✓	2	P10	171	
✓	3		358503	W15
✓	4	P11	4885561	W15 / M2
✓	5	P12	358599 4885899	W15
	6			G9
	7	P8	170	G9, M1, W6 W6



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

**Breeding Bird Survey
Observation Form**
(Use a separate form for each habitat type)

Stantec

Project Number: 160 960595

Project Name: Amherst

Date: July 2, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>16</u>	WIND: <u>SE (1)</u>	CLOUD: <u>0</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	------------------------	--------------------	------------------	-----------------------------------

Feature No.: G10 Habitat Type: _____ Time Start: 0610 Time End: 0642

0744 0755

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow <u>A</u>	<u>H</u>	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren <u>S</u>	<u>S</u>	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	<u>S</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	<u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	<u>S</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	<u>H</u>
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling <u>H</u>	<u>H</u>	Red-winged Bl.	<u>I</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	<u>S</u>
Killdeer	<u>FY</u>	Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	<u>X</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	<u>S</u>
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	<u>S</u>
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove	<u>A</u>	No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 6

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W15 Habitat Type: _____ Time Start: 0630 Time End: 0744

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners in Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>S</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>S</u>	<u>S</u>
N. Harrier †‡		No. Flicker † <u>SM</u>	<u>S</u>	Hermit Thrush ‡		Swamp Sp. <u>A</u>	<u>A</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush † <u>S</u>	<u>S</u>	Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † <u>S</u>	<u>S</u>	Am. Robin <u>SA</u>	<u>A</u>	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird <u>S</u>	<u>S</u>	Rose-br. Grosbeak † <u>HS</u>	<u>S</u>
Red-tailed Hawk <u>A</u>	<u>A</u>	Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly. <u>S</u>	<u>S</u>	Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	<u>FY</u>
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. <u>AS</u>	<u>A</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo <u>S</u>	<u>S</u>	Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay <u>HP</u>	<u>P</u>	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 2 of 6

Signature: _____
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: _____
 (Project Manager)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: July 2, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>16</u>	<u>SE (1)</u>	<u>0</u>	<u>0</u>	<u>0</u>

Feature No.: M2 Habitat Type: _____ Time Start: 0642 Time End: 0712

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du. <u>H</u>	<u>H</u>	Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat <u>S</u>	<u>S</u>
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡	
Pied-b. Grebe		Whip-poor-will ‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren <u>S</u>	<u>S</u>	Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. <u>S</u>	<u>S</u>
N. Harrier ‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. <u>S</u>	<u>S</u>
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk ‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>A</u>	<u>A</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe <u>S</u>	<u>S</u>	Warbling Vireo		Yellow Wa. <u>S</u>	<u>S</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 6

Signature: _____

AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

Katrina

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: G9 Habitat Type: _____ Time Start: 0820 Time End: 0922

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	N	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron	X	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. † S H S	
Little Blue Heron		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey	X	Hairy Wo.		Veery		Song Sp.	
N. Harlequin Duck †‡		No. Flicker † SM S		Hermit Thrush ‡		Swamp Sp.	
Sharp-shinned Hawk †‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk †		Wood-Pewee †		Am. Robin P P		No. Cardinal	
Red-shou. Hawk †‡		Alder Flycatcher		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk †‡		Wood Pewee		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †‡		Least Fly.		Br. Thrasher †		Bobolink † P P	
Virgatus		Tree Toad		European Starling H CF		Red-winged Bl.	
Sora		Least Fly.		Cedar Waxwing H P		Ea. Meadowlark †	
Killdeer		Kingbird † P P		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upland Sandpiper		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		White-eyed Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Yellow-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Jay		Magnolia Wa. ‡		House Finch	X
Heron		Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian		Junco		Yel-rumped Wa. ‡		Am. Goldfinch P P	
Black Tern		Ho. Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove H H		Tree Swallow X		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Osprey - came in from east, landed for a bit, and then continued SW. Almost looked like it was migrating, but a bit early since migrants normally don't start until about July 20.

~~Blue Jay~~

~~Brewer's Sparrow~~

~~Edwards Sparrow~~

Pg. 4 of 6

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Karin
 (Project Manager)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: July 2, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>23</u>	<u>S (1)</u>	<u>10</u>	<u>0</u>	<u>0</u>

Feature No.: M1 Habitat Type: _____ Time Start: 0845 Time End: 0915

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern

† Partners In Flight

‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.
G. B. Heron	H H	Red-headed Wo** †		Marsh Wren		Field Sp. †
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †
Green Heron	X	Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †
Osprey		Hairy Wo.		Veery		Song Sp. S S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. S S
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. S S
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...
Rock Dove		Tree Swallow		Pine Wa. ‡		
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡		

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 6

Quality Control: This form is complete & legible .

Signature: _____
(Field Personnel)

Signature: _____
(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W6 Habitat Type: _____ Time Start: 0758 Time End: 0809
0924 0930

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee H H		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	FY
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron H T		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp. S S	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † SX S		Am. Robin SP CF		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird H H		Rose-br. Grosbeak †-X S S	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel † H H		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling H H		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow. H H	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. S S		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay	A A	Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow A A		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch P P	
Black T		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common c		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove S S		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highs: Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

X E Wood-Pewee ♂ - along road, N end of woodlot
 X Rose-br Grosbeak ♂ - " " " " " "

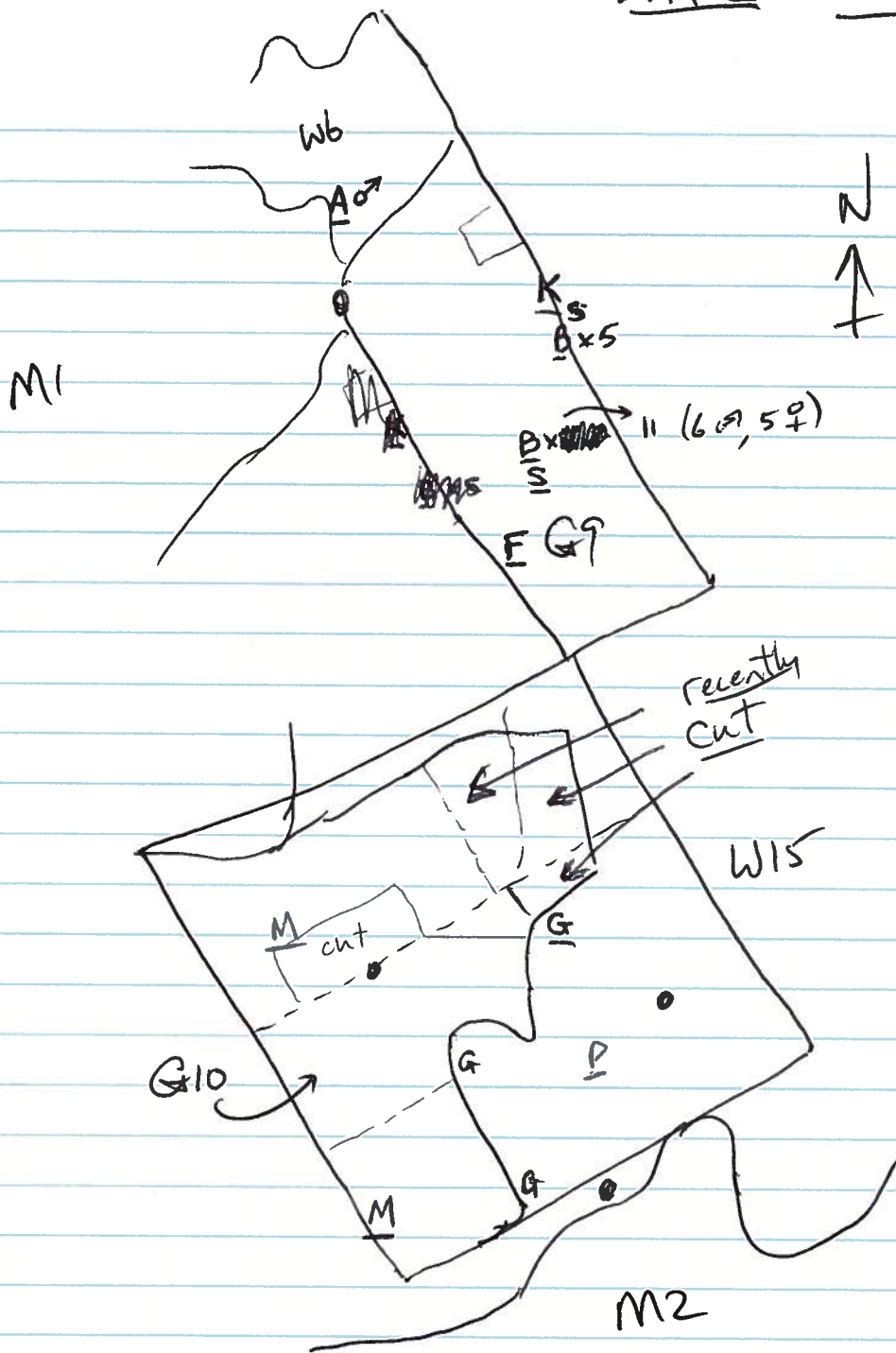
Pg. 6 of 6

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Robert J. ...
 (Project Manager)

REV: 2011-05-27 / FORM 031

DAY 2 - July 2, 2011



- | | | | |
|---|------------------|---|-------------------|
| M | E Meadow lark | A | <u>Am</u> Kestrel |
| G | Rose-br Grosbeak | | |
| P | E Wood-Pewee | | |
| K | E Kingbird | | |
| B | Bobolink | | |
| S | Sav. Sparrow | | |
| F | N Flicker | | |



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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Birding Point Counts Survey Observation Form

Stantec

Project Number 160960595 Project Name: Amherst
Date July 2, 2011 Field Personnel: Alan Worthington

Weather Conditions: Temp: 16 Wind: SE (1) Cloud: 0 PPT: 0 PPT in last 24 hrs: 0

GPS #: T__

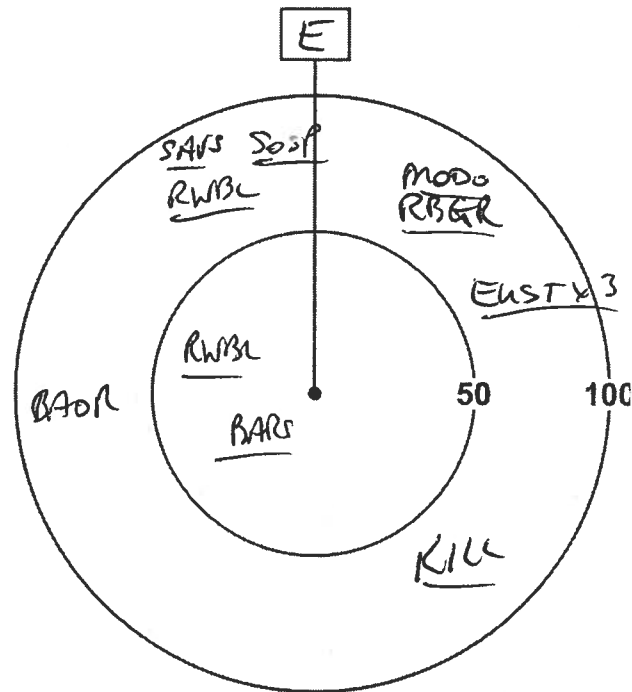
✓ Station: P10/171 (G10)

Habitat: Forest Swamp Marsh Hay Pasture Crop _____

UTM: _____

Start Time: 0610

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
COGR				1	A
EUST				2	A
EUST		3			A
SOSP		1			0
RWBL	1	1			0
MOD0					
* BARS	1				A
KILL		1			0
RWBL				1	A
RBGR	1				A
MOD0		1			A
SAUS		1			D
BAOR		1			A



*Height of blade sweep will vary from project to project; Check with Project Manager
O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
C - Above height of blade sweep; D - Well Above the height of blade sweep

* Barn Swallow - still sitting on the same wire at 0750!

Quality Control: This form is complete () & legible ().

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

Page 1 of 3

REV: May, 07 Form 020

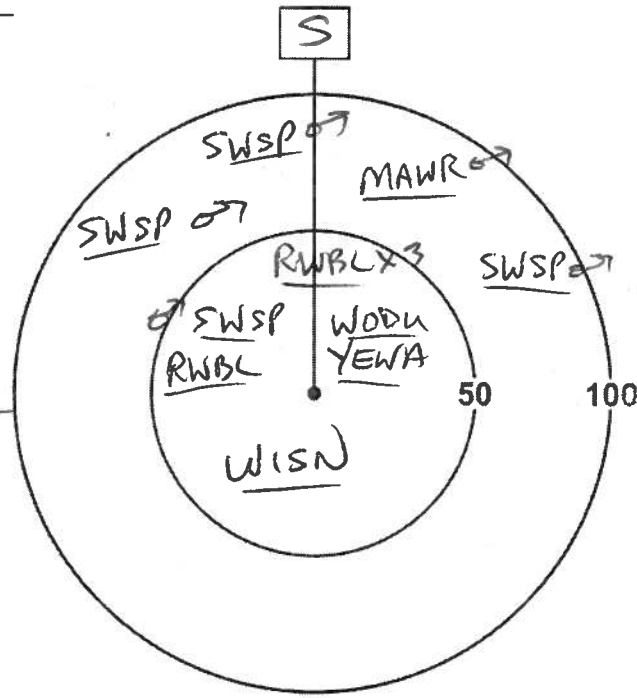
Station: P11 / 358503 / 4885561 (WIS) (M2)

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0648

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
SWSP	1	3			O
MAWR		1			O
RWBL	4				O
WODK	1				O
YEWA	1				O
WISN	1				A



*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

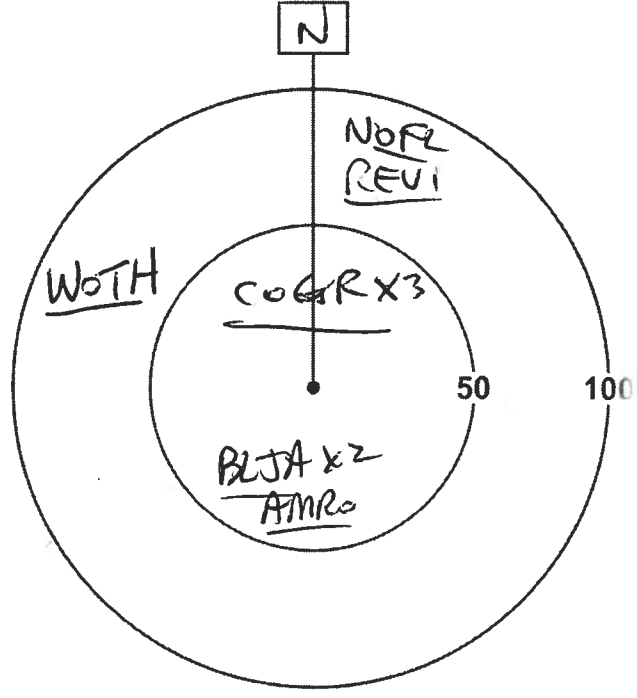
Station: P12 / 358599 / 4885899 (WIS)

Habitat: Forest Swamp Marsh Hay Pasture Crop

UTM: _____

Start Time: 0727

Species	<50 m	50-100 m	> 100m	Flyovers	Height*
REV1		1			A
WOTH		1			O
COGR	3				O
BLJA	2				A
AMR0	1				A
NOFL		1			A





*Height of blade sweep will vary from project to project; Check with Project Manager
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;
 C - Above height of blade sweep; D - Well Above the height of blade sweep

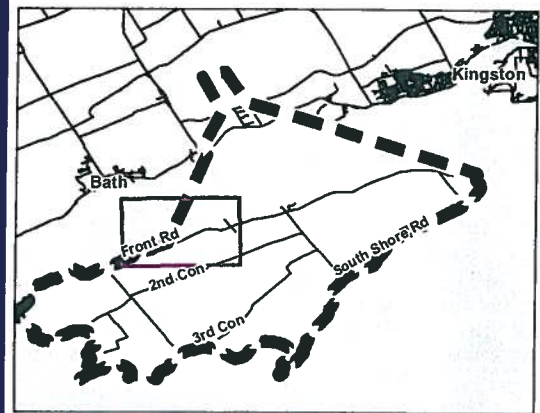
Quality Control: This form is complete () & legible ().
 Signature: _____
 (Field Personnel)

Signature: _____
 (Project Manager)



Legend

-  Study Area
-  Road
-  Watercourse
-  Amphibian Station
- Property Status**
-  Optioned
-  Not Optioned



Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



Stantec

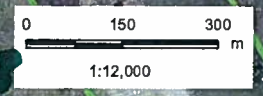
May 2011
160960595

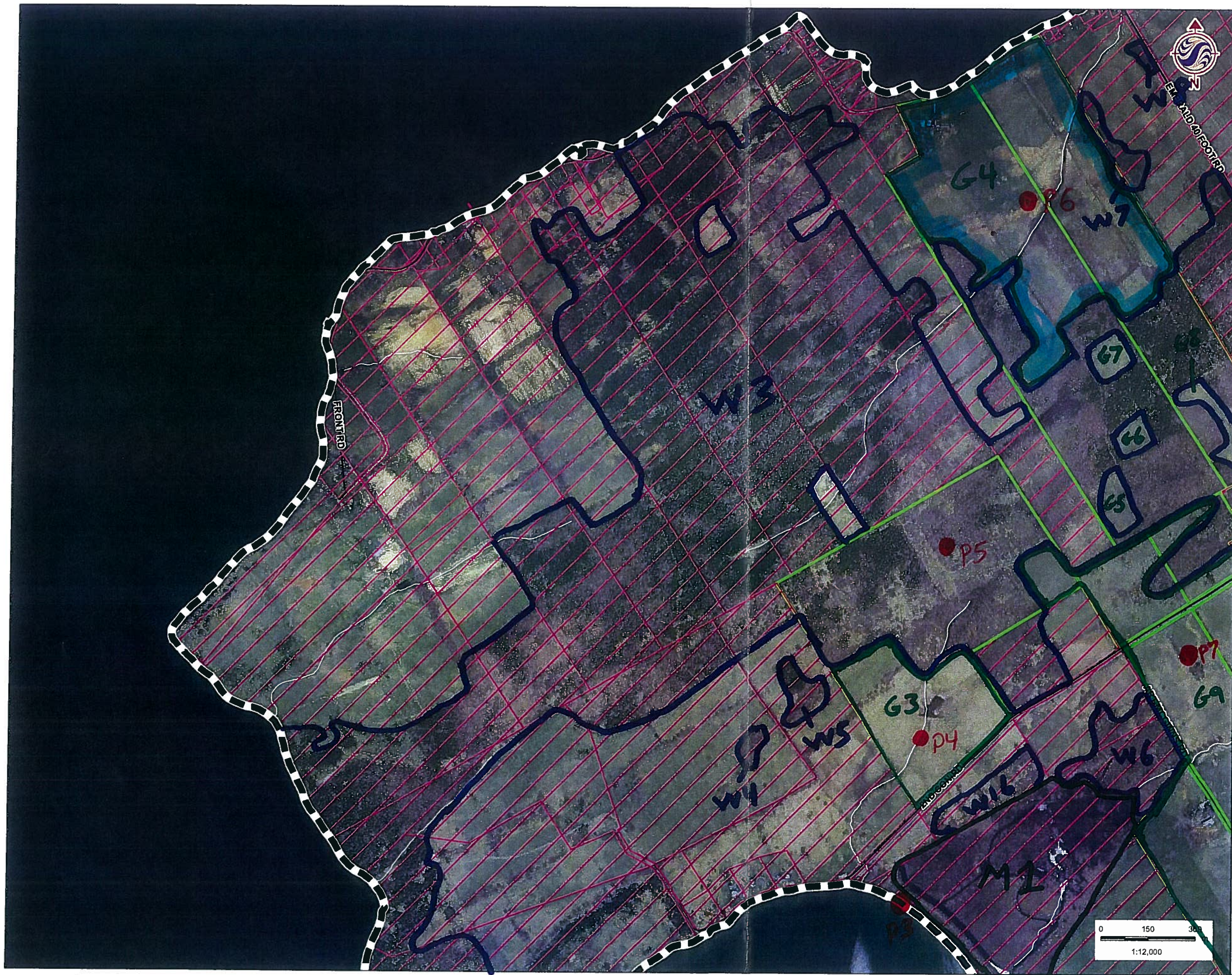
Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

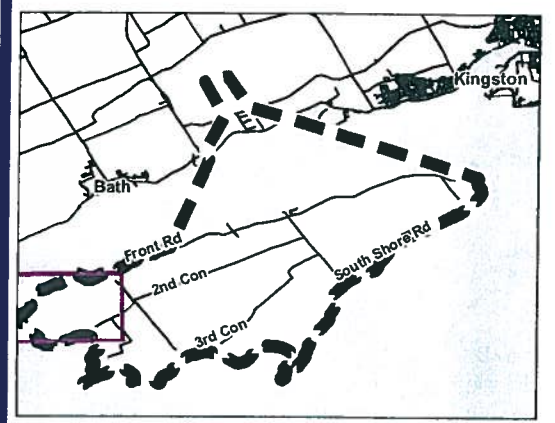
Figure No.
Tile 4

Title
FIELD MAPBOOK





- Legend**
- Study Area
 - Road
 - Watercourse
 - Amphibian Station
 - Property Status**
 - Optional
 - Not Optional



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
 3. Imagery Source: First Base Solutions ©, 2011. Imagery Date: 2008



May 2011
160960595

Client/Project
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
Tile 1

Title
FIELD MAPBOOK



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Stantec

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Project Number: 160960595

Project Name: Amherst

Date: June 28, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>S (2)</u>	CLOUD: <u>100</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: G42 Habitat Type: _____ Time Start: 0615 Time End: 0725

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
† Partners In Flight
‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡†	
Co. Loon ‡ <u>0 B height</u>	X	Co. Nighthawk**		Br. Creeper ‡		Canada Wa. ‡†	
Pied-b. Grebe		Whip-poor-will ‡†		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	P P
N. Harrier ‡†	H H	No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H	No. Cardinal	
Red-shou. Hawk ‡†		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	S
Red-tailed Hawk		Willow Fly. †	H H	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	A A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	H H
Killdeer	H H	Ea. Kingbird †	H H	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	S S	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull	X	Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** ‡†			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 1 of 9

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

(Project Manager)

Feature No.: W20 Habitat Type: _____ Time Start: 0638 Time End: 0701

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S	S
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S	S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin S	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird S	S	Rose-br. Grosbeak † S	S
Red-tailed Hawk		Willow Fly. † H	H	No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly. S	S	Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A	A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa. P S P		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Blue-eyed Grayling
1773

Pg. 2 of 9

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 28, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>20</u>	WIND: <u>(S) (2)</u>	CLOUD: <u>100</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
---------------------	-------------------------	-------------------------	----------------------	------------------	-----------------------------------

Feature No.: G4 Habitat Type: _____ Time Start: 0735 Time End: 0815

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	X	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S P P
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	S S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	S	No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	S A A
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	H S S
Killdeer	A	Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	P P
Upla. Sandpiper ‡	A	Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe	SM	Warbling Vireo	S	Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 3 of 9

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W7 Habitat Type: _____ Time Start: 0759 Time End: 0812

Record location of all significant species on site map.

** Endangered, Threatened or Special Concern
 † Partners In Flight
 ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡		No. Flicker † S S		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A A	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird † A A		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
* Upla. Sandpiper ‡ A A		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe A A		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch H H	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove S S		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

* Upland Sandpiper - very agitated; hatched young might actually be hiding in woods.

Signature: AW
 (Field Personnel)

Quality Control: This form is complete & legible
 Signature: Katrin
 (Project Manager)



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 28, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20</u>	<u>S (2)</u>	<u>100</u>	<u>0</u>	<u>0</u>

Feature No.: W8 Habitat Type: _____ Time Start: 0819 Time End: 0826

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners in Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡
Mallard		Gr. Horned Owl		Bl-capped Chickadee <u>H</u> <u>H</u>		No. Waterthrush ‡
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †
Osprey		Hairy Wo.		Veery		Song Sp. <u>S</u> <u>S</u>
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. <u>S</u> <u>S</u>
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch <u>H</u> <u>H</u>
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...
Rock Dove		Tree Swallow		Pine Wa. ‡		
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡		

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 5 of 9

Signature: _____
(Field Personnel)

Quality Control: This form is complete & legible
Signature: _____
(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.:

W11

Habitat Type:

Time Start:

0840

Time End:

0855

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat S S	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp. S S	
N. Harrier †‡		No. Flicker † H H		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡ S S		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee † S S		Am. Robin S S		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird S S		Rose-br. Grosbeak † S S	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole † S	
Am. Woodcock	FY	Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay H H		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.



Pg. 6 of 9

Signature:

AW

(Field Personnel)

Quality Control: This form is complete & legible .

Signature:

Kathryn

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 28, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>22</u>	WIND: <u>S (2)</u>	CLOUD: <u>80</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: G11 Habitat Type: _____ Time Start: 0855 Time End: 1045

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** ‡‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren		Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp. <u>H</u>	<u>H</u>
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron	<u>X</u>	Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	<u>P</u> <u>P</u>
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	<u>S</u> <u>S</u>
Osprey		Hairy Wo.		Veery		Song Sp.	<u>S</u> <u>S</u>
N. Harrier †‡	<u>H</u> <u>H</u>	No. Flicker †	<u>X</u>	Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	<u>A</u> <u>A</u>	No. Cardinal	<u>S</u> <u>S</u>
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk	<u>H</u> <u>H</u>	Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	<u>A</u> <u>A</u>
Virginia Rail		Ea. Phoebe		European Starling	<u>CF</u>	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	<u>A</u> <u>A</u>
Killdeer	<u>A</u> <u>A</u>	Ea. Kingbird †	<u>H</u> <u>H</u>	Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	<u>S</u> <u>S</u>	Baltimore Oriole †	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	<u>H</u>	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 7 of 9

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031

Feature No.: W10 Habitat Type: _____ Time Start: 0923 Time End: 0940

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow		Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	S S	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	S P P
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	S S
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	S S
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	H H
Osprey		Hairy Wo.		Veery		Song Sp.	S S
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin	H H	No. Cardinal	S S
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird		Rose-br. Grosbeak †	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling	FY	Red-winged Bl.	
Sora		Gr. Crested Fly.		Cedar Waxwing		Ea. Meadowlark †	H H
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.		Baltimore Oriole †	H H
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch	P P
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow		Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 8 of 9

Signature: _____

(Field Personnel)

Quality Control: This form is complete & legible .

Signature: _____

(Project Manager)

REV: 2011-05-27 / FORM 031



Stantec Consulting Ltd.
1 - 70 Southgate Drive
Guelph, ON
Canada N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Breeding Bird Survey Observation Form

(Use a separate form for each habitat type)

Stantec

Project Number: 160960595

Project Name: Amherst

Date: June 28, 2011

Field Personnel: Alan Wormington

Weather Conditions:	TEMP (°C): <u>23</u>	WIND: <u>S (2)</u>	CLOUD: <u>75</u>	PPT: <u>0</u>	PPT (in last 24 hrs): <u>0</u>
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Feature No.: W9 Habitat Type: _____ Time Start: 1013 Time End: 1030

Record location of all significant species on site map.

- ** Endangered, Threatened or Special Concern
- † Partners In Flight
- ‡ Area Sensitive Species

Species	BE*	Species	BE*	Species	BE*	Species	BE*
Can. Goose		Yellow-b Cuckoo		Bank Swallow †		Bl-and-wh Wa. ‡	
Wood Du.		Black-b Cuckoo †		Cliff Swallow		Am. Redstart ‡	
Am. Black Duck		Ea. Screech Owl		Barn Swallow	✕	Ovenbird ‡	
Mallard		Gr. Horned Owl		Bl-capped Chickadee		No. Waterthrush ‡	
R. N. Pheasant		Barred Owl ‡		Tufted Titmouse		Mourning Wa. ‡	
Ruffed Grouse ‡		Long-eared Owl		Red-br. Nuthatch		Co. Yellowthroat	
W. Turkey		No. Saw-whet Owl		Wh-br. Nuthatch		Hooded Wa** †‡	
Co. Loon ‡		Co. Nighthawk**		Br. Creeper ‡		Canada Wa. †‡	
Pied-b. Grebe		Whip-poor-will †‡		Carolina Wren.		Scarlet Tanager ‡	
D. C. Cormorant ‡		Chimney Swift** †		House Wren	SP P	Eastern Towhee †	
Am. Bittern		Ruby-thr. Humming.		Winter Wren ‡		Chipping Sp.	
Least Bittern** ‡		Belt. Kingfisher †		Sedge Wren		Clay-colored Sp.	
G. B. Heron		Red-headed Wo** †		Marsh Wren		Field Sp. †	
Gr. Egret		Red-bellied Wo.		Golded-cr. Kinglet ‡		Vesper Sp. †	
Green Heron		Yell-bellied Sap. ‡		B. G. Gnatcatcher ‡		Savannah Sp. †	
T. Vulture		Downy Wo.		Ea. Bluebird		Grasshopper Sp. †	
Osprey		Hairy Wo.		Veery		Song Sp.	
N. Harrier †‡		No. Flicker †		Hermit Thrush ‡		Swamp Sp.	
Sharp-sh. Hawk ‡		Pileated Wo. ‡		Wood Thrush †		Wh-throated Sp. ‡	
Coopers Hawk ‡		Ea. Wood-Pewee †		Am. Robin		No. Cardinal	
Red-shou. Hawk †‡		Alder Fly.		Gray Catbird	S S	Rose-br. Grosbeak † S S	
Red-tailed Hawk		Willow Fly. †		No. Mockingbird		Indigo Bunt.	
Am. Kestrel †		Least Fly.		Br. Thrasher †		Bobolink †	
Virginia Rail		Ea. Phoebe		European Starling		Red-winged Bl. A A	
Sora		Gr. Crested Fly.		Cedar Waxwing	H H	Ea. Meadowlark †	
Killdeer		Ea. Kingbird †		Blue-wing. Wa. †		Co. Grackle	
Spot. Sandpiper		Yellow-thr. Vireo ‡		Gold-wing. Wa** †		Br-headed Cow.	
Upla. Sandpiper ‡		Blue-headed Vireo ‡		Nashville Wa.		Orchard Oriole	
Wilson's Snipe		Warbling Vireo		Yellow Wa.	SP CF	Baltimore Oriole † S S	
Am. Woodcock		Red-eyed Vireo		Chestnut-s. Wa.		Purple Finch	
Ring-b. Gull		Blue Jay		Magnolia Wa. ‡		House Finch	
Herring Gull		Am. Crow		Bl-thr Blue Wa. ‡		Pine Siskin	
Caspian Tern		Co. Raven		Yel-rumped Wa. ‡		Am. Goldfinch P P	
Black Tern** ‡		Horned Lark		Bl-thr Gr. Wa. ‡		House Sparrow	
Common Tern		Purple Mart.		Blackburnian Wa. ‡		Other Species ...	
Rock Dove		Tree Swallow	H H	Pine Wa. ‡			
Mourn. Dove		No. R. W. Swal.		Cerulean Wa** †‡			

* Record highest Breeding Evidence (BE) observed over all habitat. Use codes as in Breeding Bird Atlas of Ontario.

Pg. 9 of 9

Quality Control: This form is complete & legible

Signature: _____
(Field Personnel)

Signature: _____
(Project Manager)

REV: 2011-05-27 / FORM 031