

RE WAUBAUSHENE 3 SOLAR PROJECT

Natural Heritage Records Review Report

August 15, 2011

RECURRENT
ENERGY





RE Waubaushene 3 ULC

Natural Heritage
Records Review Report

RE Waubaushene 3 Solar Project

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Project Report

August 15, 2011

RE Waubaushene 3 ULC
RE Waubaushene 3 Solar Project

Natural Heritage Records Review Report

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1. Introduction

1.1 Project Description

RE Waubaushene 3 ULC is proposing to develop and operate a 10-megawatt (MW) solar photovoltaic (Solar PV) facility, on an approximately 33-hectare (ha) parcel of land, located about 2 km northeast of Waverley, in the Township of Tay in the County of Simcoe (Figure 1.1); herein referred to as “RE Waubaushene 3” or the “Project”.

1.2 Legislative Requirements

Ontario Regulation (O. Reg.) 359/09 – *Renewable Energy Approvals Under Part V.0.1 of the Act*, (herein referred to as the REA Regulation) made under the *Environmental Protection Act* identifies the Renewable Energy Approval (REA) requirements for renewable energy projects in Ontario. As per Section 4 of the REA Regulation, ground-mounted solar facilities with a nameplate capacity greater than 10 kilowatts (kW) are classified as Class 3 solar facilities and do require an REA.

Section 25 of the REA Regulation requires proponents of Class 3 solar projects to undertake a natural heritage records review to identify whether the Project is

1. in or within 120 m of a provincial park or conservation reserve
2. in a natural feature
3. within 50 m of an area of natural and scientific interest (earth science)
4. within 120 m of a natural feature that is not an area of natural and scientific interest (earth science).

Natural features are defined in Section 1.1 of the REA Regulation to be all or part of

- a) an area of natural and scientific interest (ANSI) (earth science)
- b) an ANSI (life science)
- c) a coastal wetland
- d) a northern wetland
- e) a southern wetland
- f) a valleyland
- g) a wildlife habitat
- h) a woodland.

Subsection 3 of Section 25 of the REA Regulation requires the proponent to prepare a report “setting out a summary of the records searched and the results of the analysis” (O. Reg. 359/09). This Natural Heritage Records Review Report has been prepared to meet these requirements. It has also been prepared in accordance with the Ministry of Natural Resource’s Natural Heritage Assessment Guide for Renewable Energy Projects (December 2010).

2. Methodology and Results

The following sections document the records that were searched and analyzed and the results of the analysis, with the focus on identifying whether or not the Project was located on or within 120 m of any of the natural features listed in Section 1.2. The sections are organized as identified in Column 1 of the Table in Section 25 of the REA Regulation.

Records were searched within a minimum distance of 1 km from the Project location. Results are discussed below in relation to the distances specified between the Project and natural features as defined in Section 25 of the REA Regulation (see Section 1.2).

There are no conservation authorities, planning boards, local roads boards or local services boards within the jurisdiction of the Project location. Also, the Project location is not located within the Niagara Escarpment Commission Plan Area. Therefore, records reviews for these governing bodies were not conducted.

Municipal planning authorities are discussed below in relation to the relevant lower and upper tier municipalities.

2.1 Ministry of Natural Resources Records

2.1.1 Methodology

The following Ministry of Natural Resources (MNR) on-line records were reviewed:

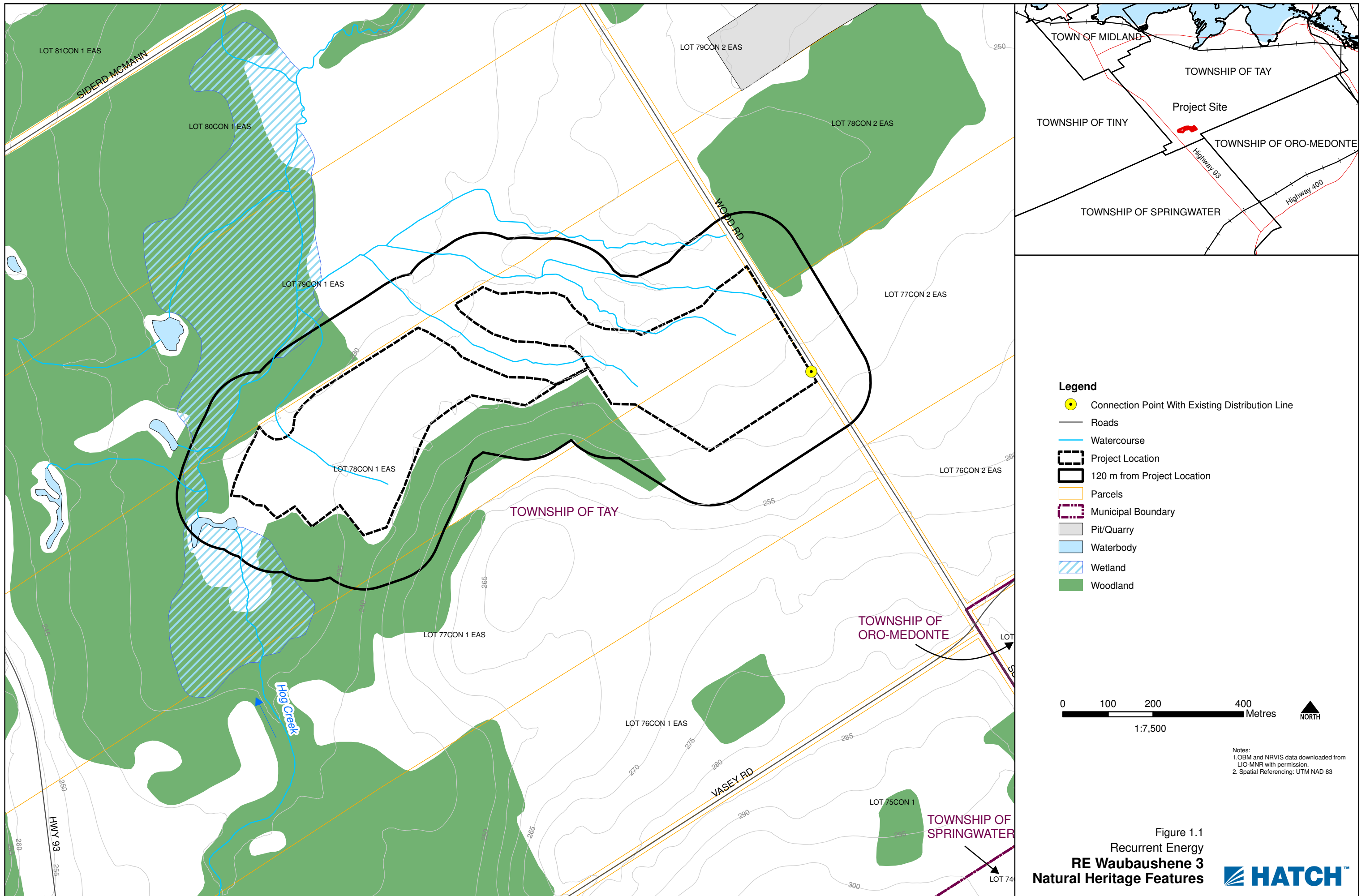
- Ontario Crown Land Use Mapping (<http://crownlanduseatlas.mnr.gov.on.ca/clupa.html>)
- Ontario Base Maps and natural feature layers from Land Information Ontario (LIO) (<http://www.geographynetwork.ca/website/obm/viewer.htm>)
- Natural Heritage Information Centre (NHIC) on-line mapping (http://nhic.mnr.gov.on.ca/nhic_.cfm)
- NHIC Biodiversity Explorer (<http://www.biodiversityexplorer.mnr.gov.on.ca/nhicWEB/main.jsp>)
- NHIC Ontario Herpetofaunal Summary Atlas (<http://nhic.mnr.gov.on.ca/MNR/nhic/herps/ohs.html>).

The Midhurst District MNR office was also asked to provide any information they had available regarding natural features on or adjacent to the Project area. This information was received on May 4, 2010 (MNR, 2010).

2.1.2 Results

Mapping data obtained from LIO is illustrated in Figure 1.1. Key natural features identified within 120 m of the Project location include the following:

- woodlands within 120 m of the Project location
- wetland within 120 m of the eastern boundary of the Project location
- no specific wildlife habitat features, ANSI, Provincially Significant Wetlands or valleylands were identified on or within 120 m of the Project location



Back of Figure

- there are no provincial parks or conservation reserves on or within 120 m of the Project location.

A review of the NHIC database identified occurrences of Five-lined Skink (*Eumeces fasciatus*) American Lotus (*Nelumbo lutea*) and Beaked Spike-rush (*Eleocharis rostellata*), species of conservation concern, from the area of the Project location (NHIC, 2008a).

The Ontario Herpetofaunal Summary Atlas identified several species of reptile and amphibian whose ranges may overlap with the Project location (Table 2.1). Of these species, several species of conservation concern were identified that have the potential to occur within the Project location, specifically:

- Milksnake (*Lampropeltis triangulum*) – Listed as Special Concern on the Species at Risk in Ontario (SARO) list
- Snapping Turtle (*Chelydra serpentina*) – Listed as Special Concern on the SARO list
- Western Chorus Frog (*Pseudacris triseriata*) – Listed as Threatened by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC).

As species of conservation concern, potential habitat for Milksnake, Western Chorus Frog and Snapping Turtle, if present on or within 120 m of the Project location, would be considered candidate significant wildlife habitat.

Table 2.1 Reptiles and Amphibians Potentially Occurring on or within 120 m of the Project Location and Their Conservation Status¹

Species		Conservation Status ²
Common Name	Scientific Name	Ontario SRANK ³
Salamanders		
Mudpuppy	<i>Necturus maculosus</i>	S4
Yellow-spotted Salamander	<i>Ambystoma maculatum</i>	S4
Four-toed Salamander	<i>Hemidactylium scutatum</i>	S4
Eastern Red-backed Salamander	<i>Plethodon cinereus</i>	S5
Eastern Newt	<i>Notophthalmus viridescens</i>	S5
Frogs and Toads		
American Toad	<i>Bufo americanus</i>	S5
Western Chorus Frog	<i>Pseudacris triseriata</i>	S4
Gray Treefrog	<i>Hyla versicolor</i>	S5
Spring Peeper	<i>Pseudacris crucifer</i>	S5
American Bullfrog	<i>Rana castebiana</i>	S4
Green Frog	<i>Rana clamitans</i>	S5
Pickerel Frog	<i>Rana palustris</i>	S4
Northern Leopard Frog	<i>Rana pipiens</i>	S5
Wood Frog	<i>Rana sylvatica</i>	S5
Turtles		
Snapping Turtle	<i>Chelydra serpentina</i>	S5
Midland Painted Turtle	<i>Chrysemys picta marginata</i>	S5
Snakes		
Eastern Milksnake	<i>Lampropeltis triangulum</i>	S3

Species		Conservation Status ²
Common Name	Scientific Name	Ontario SRANK ³
Smooth Green Snake	<i>Opheodrys vernalis</i>	S4
Dekay's Brownsnake	<i>Storeria dekayi</i>	S5
Northern Watersnake	<i>Nerodia sipedon</i>	S5
Red-bellied Snake	<i>Storeria occipitomaculata</i>	S5
Eastern Gartersnake	<i>Thamnophis sirtalis sirtalis</i>	S5

2.2 Federal Government Records

2.2.1 Methodology

A review of federal government sources included Natural Resources Canada's Amphibians and Reptiles of Ontario Climate Domain Maps, along with the websites of the Canadian Wildlife Service (www.cws-scf.ec.gc.ca) and Environment Canada (www.ec.gc.ca). Findings are discussed in the following section.

2.2.2 Results

The Natural Resources Canada's Amphibians and Reptiles of Ontario Climate Domain Maps was reviewed and compared with the results of the Ontario Herpetofaunal Summary Atlas (discussed in Section 2.1); no additional information was discovered in the federal records.

No information relevant to the Project location or lands within 120 m of the Project location was available from the Canadian Wildlife Service or Environment Canada.

2.3 Municipal Records

2.3.1 Methodology

County of Simcoe

The Project is located within the upper tier municipality of the County of Simcoe. Information regarding natural features was requested from County staff from the planning department during a meeting between the County of Simcoe, Hatch, and RE Waubaushene 3 ULC on March 2, 2010. The County recommended reviewing their on-line mapping database (<http://maps.simcoe.ca/index.html>), which shows the general environmental and infrastructure features within the County, as well as high-resolution satellite imagery.

This information was obtained and reviewed (County of Simcoe, 2009).

Township of Tay

The Project is also located within the lower tier municipality of the Township of Tay (TT, 2007). Information regarding natural features was requested from Township staff from the planning and development department during a meeting between the Township of Tay, Hatch, and RE Waubaushene 3 ULC on March 3, 2010. The Township recommended reviewing their Official Plan (TT, 2007).

These documents were searched to find any records of natural features.

2.3.2 Results

Based on a review of municipal information, natural features identified in these sources were already known from LIO mapping information, and are shown in Figure 1.1.

2.4 Other Records

2.4.1 Methodology

In addition to the sources identified above, the following records were also reviewed:

- Ontario Breeding Bird Atlas data (Bird Studies Canada et al, 2006)
- Atlas of the Mammals of Ontario (Dobbyn, 1994)
- Important Bird Areas of Canada website (<http://www.ibacanada.ca/mapviewer.jsp?lang=en>).

2.4.2 Results

Map square 17PK94 in the Ontario Breeding Bird Atlas overlaps the Project location. Results from surveys within this square were reviewed to determine what bird species can be expected to occur on the Project location (results of the surveys within this square are provided in Appendix A). Of the species that were recorded, five species of conservation concern were identified whose ranges overlap that of the Project location. These species are as follows, and discussed in Section 3:

- Olive-sided Flycatcher (*Contopus cooperi*) – Listed as Special Concern on the SARO list
- Red-headed Woodpecker (*Melanerpes erythrocephalus*) – Listed as Special Concern on the SARO list
- Cerulean Warbler (*Dendroica cerulea*) – Listed as Special Concern on the SARO list
- Golden-winged Warbler (*Vermivora chrysoptera*) - Listed as Special Concern on the SARO list
- Canada Warbler (*Wilsonia canadensis*) – Listed as Special Concern on the SARO list.

As species of conservation concern, potential habitat for Olive-sided Flycatcher, Red-headed Woodpecker, Cerulean Warbler, Golden-winged Warbler, and Canada Warbler, if present on or within 120 m of the Project location, would be considered candidate significant wildlife habitat.

No Important Bird Areas are on or within 120 m of the Project location.

The Atlas of the Mammals of Ontario (Dobbyn, 1994) identified several species of mammals that may overlap with the Project location. This list of these species is provided in Table 2.2. None of these species are considered to be species of conservation concern.

Table 2.2 Mammal Species Potentially Occurring on or within 120 m of the Project Location¹

Species		Conservation Rank ²
Common Name	Scientific Name	Ontario SRANK ³
Shrews and Moles		
Smoky Shrew	<i>Sorex fumeus</i>	S5
Common Shrew	<i>Sorex cinereus</i>	S5
Hairy-tailed Mole	<i>Parascalops breweri</i>	S4
Star-nosed Mole	<i>Condylura cristata</i>	S5

Species		Conservation Rank ²
Common Name	Scientific Name	Ontario SRANK ³
Northern Short-tailed Shrew	<i>Blarina brevicauda</i>	S5
Bats		
Little Brown Bat	<i>Myotis lucifuga</i>	S5
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	S4
Big Brown Bat	<i>Epstesicus fuscus</i>	S5
Rabbits and Hares		
Eastern Cottontail	<i>Sylvilagus floridanus</i>	S5
Snowshoe Hare	<i>Lepus americanus</i>	S5
Rodents		
Eastern Chipmunk	<i>Tamias striatus</i>	S5
Woodchuck	<i>Marmota monax</i>	S5
Grey Squirrel	<i>Sciurus carolinensis</i>	S5
Red Squirrel	<i>Tamiasciurus hudsonicus</i>	S5
Northern Flying Squirrel	<i>Glaucomys sabrinus</i>	S5
Beaver	<i>Castor canadensis</i>	S5
White-footed Mouse	<i>Peromyscus leucopus</i>	S5
Deer Mouse	<i>Peromyscus maniculatus</i>	S5
Meadow Vole	<i>Microtus pennsylvanicus</i>	S5
Muskrat	<i>Ondatra zibethicus</i>	S5
Porcupine	<i>Erethizon dorsatum</i>	S5
Norway Rat	<i>Rattus norvegicus</i>	SE
House Mouse	<i>Mus musculus</i>	SE
Woodland Jumping Mouse	<i>Napaeozapus insignis</i>	S5
Meadow Jumping Mouse	<i>Zapus hudsonius</i>	S5
Carnivores		
Coyote	<i>Canis latrans</i>	S5
Grey Wolf	<i>Canis lupus</i>	S4
Black Bear	<i>Ursus americanus</i>	S5
Red Fox	<i>Vulpes vulpes</i>	S5
Raccoon	<i>Procyon lotor</i>	S5
Ermine	<i>Mustela erminea</i>	S5
Fisher	<i>Martes pennanti</i>	S5
Mink	<i>Mustela vison</i>	S5
River Otter	<i>Lontra Canadensis</i>	S5
Striped Skunk	<i>Mephitis mephitis</i>	S5
Ungulates		
White-tailed Deer	<i>Odocoileus virginianus</i>	S5

¹ Based on range maps provided in Dobbyn, 1994.

² Accessed from NHIC (2008b).

³ SRANK = Provincial Status (NHIC, 2008b); S = Sub-national Rank (Ontario), E = Exotic species, 2 = Imperilled, 3 = Vulnerable, 4 = Apparently Secure, 5 = Secure, ? = Rank Uncertain, NA = Not Applicable

3. Summary of Results

Table 3.1 summarizes the results of the records review according to the features identified in Section 1.2. A map depicting the identified natural features on and in proximity to the site is provided in Figure 1.1.

Table 3.1 Summary of Records Review Determinations

Determination to be Made	Yes/No	Description
Is the Project in or within 120 m of a provincial park or conservation reserve?	No	
Is the Project in a natural feature?	No	
Is the Project within 50 m of an ANSI (earth science)?	No	
Is the Project within 120 m of a natural feature that is not an ANSI (earth science)?	Yes	There are wetlands and woodlands within 120 m of the Project location.

As per Section 26 of the REA Regulation, a site investigation will be required to confirm the features identified during this records review. The site investigation will (i) identify if any corrections to the information presented herein are required, (ii) determine whether any additional natural features exist on or adjacent to the Project location, (iii) confirm the boundaries of the natural features within 120 m of the Project, and (iv) determine the distance from the Project to the natural feature boundary.

4. References

- Bird Studies Canada, Ontario Field Ornithologists, Environment Canada, Ontario Nature, and Ontario Ministry of Natural Resources. 2006. Ontario Breeding Bird Atlas Internet Site. Available on-line at www.birdsontario.org/atlas/atlasmain.html. Accessed February 16, 2010.
- County of Simcoe. 2009. Simcoe County Interactive Mapping. Available on-line at <http://maps.simcoe.ca>. Accessed February 24, 2010; Last Updated December 2009.
- Dobbyn, J. S. 1994. Atlas of the Mammals of Ontario. Federation of Ontario Naturalists. 122 pp.
- Government of Canada. 2009a. Species Profile – Red-headed Woodpecker. Government of Canada, Species at Risk Public Registry. Available on-line at http://www.sararegistry.gc.ca/species/speciesDetails_e.cfm?sid=57. Accessed February 24, 2010; Last Updated January 11, 2010.
- Government of Canada. 2009b. Species Profile – Olive-sided Flycatcher. Government of Canada, Species at Risk Public Registry. Available on-line at http://www.sararegistry.gc.ca/species/speciesDetails_e.cfm?sid=999. Accessed February 24, 2010; Last Updated January 11, 2010.
- Government of Canada. 2009c. Species Profile – Eastern Hog-nosed Snake. Government of Canada, Species at Risk Public Registry. Available on-line at

http://www.sararegistry.gc.ca/species/speciesDetails_e.cfm?sid=301. Accessed February 16, 2010; Last Updated January 11, 2010.

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McKenney, D., M. Oldham, J. Bogart, and B. Mackey. 2007. Amphibians and Reptiles of Ontario. Natural Resources Canada. Available on-line at <http://cfs.nrcan.gc.ca/subsite/glfc-amphibians>. Accessed February 17, 2010; Last Updated November 30, 2007.

Natural Heritage Information Centre (NHIC). 2008a. Geographic Query. Ontario Ministry of Natural Resources, Queen's Printer for Ontario. Available on-line at <http://nhic.mnr.gov.on.ca/MNR/nhic/queries/geographic.cfm>. Accessed February 12, 2010, Last Updated June 27, 2008.

NHIC. 2008b. Biodiversity Explorer. Ontario Ministry of Natural Resources, Queen's Printer for Ontario. Available on-line at <http://www.biodiversityexplorer.mnr.gov.on.ca/nhicWEB/main.jsp>. Accessed February 12, 2010.

Oldham, M., and W. Weller. 2002. Ontario Herpetofaunal Summary Atlas. Natural Heritage Information Center. Available on-line at http://nhic.mnr.gov.on.ca/MNR/nhic/herps/range_maps.html. Accessed February 12, 2010; Last Updated September 11, 2002.

Township of Tay. 2007. Official Plan of the Township of Tay. Available on-line at http://www.tay.township.on.ca/Municipality/DepartmentsServices/PlanningandDevelopmentDepartment/Planning/OfficialPlan/tay_000880. Accessed February 24, 2010.

Appendix A

Ontario Breeding Bird Atlas Data



Square Summary (17NK94)

#species (1st atlas)				#species (2nd atlas)				#hours		#pc done	
poss	prob	conf	total	poss	prob	conf	total	1st	2nd	road	offrd
21	36	36	93	27	52	46	125	174	51	25	4

Region summary (#13: Simcoe County)

#squares	#sq with data		#species		#pc done	target #pc
	1st	2nd	1st	2nd		
68	63	65	181	190	2075	850

Target number of point counts in this square: 21 road side, 4 off road (3 in deciduous forest, 1 in mixed forest). Please try to ensure that each off-road station is located such that the entire 100m radius circle is within the prescribed habitat.

SPECIES	Code		%	
	1st	2nd	1st	2nd
Canada Goose	FY	NY	58	95
Trumpeter Swan †		H	0	43
Wood Duck	P	P	76	78
Gadwall ‡			6	4
American Wigeon			6	12
American Black Duck			44	47
Mallard	P	P	93	95
Blue-winged Teal	P	H	79	53
Northern Shoveler			11	10
Northern Pintail			14	7
Green-winged Teal			0	18
Redhead †			3	1
Ring-necked Duck			4	21
Lesser Scaup ‡			1	1
Hooded Merganser			25	30
Common Merganser			36	46
Red-breast Merganser			9	20
Gray Partridge ‡			0	1
Ring-necked Pheasant			15	10
Ruffed Grouse	NY	NY	92	81
Wild Turkey		FY	0	81
<u>Common Loon</u>			28	52
Pied-billed Grebe			22	32
Double-crest Cormorant §		H	11	27
American Bittern	H	S	50	44
Least Bittern †			12	23
Great Blue Heron §		H	77	63
Great Egret †			0	1
Green Heron §	H	T	84	70

SPECIES	Code		%	
	1st	2nd	1st	2nd
Black-crown N.-Heron † §			12	9
Yellow-crn N.-Heron †			0	0
Turkey Vulture	FY	NY	77	84
Osprey		T	42	53
Northern Harrier	T	H	76	66
Sharp-shinned Hawk	H	T	50	60
Cooper's Hawk		NY	17	47
Northern Goshawk		AE	15	27
Red-should Hawk †		P	17	44
Broad-winged Hawk	H	T	58	66
Red-tailed Hawk	AE	NB	92	81
American Kestrel	T	H	85	76
Merlin ‡			1	21
Yellow Rail †			3	3
King Rail †			3	3
Virginia Rail			36	47
Sora			31	43
Common Moorhen			17	12
American Coot			15	12
Coot/Moorhen			0	0
Sandhill Crane ‡		H	0	21
Killdeer	FY	NE	96	96
Rock Dove	NE	V	87	84
Spotted Sandpiper	T	H	95	78
Upland Sandpiper	FY	DD	60	38
Common Snipe	S	D	79	61
American Woodcock	NE	D	79	72
Ring-billed Gull §			6	33
Herring Gull §			49	38

SPECIES	Code		%	
	1st	2nd	1st	2nd
Caspian Tern †			1	3
Black Tern † §			30	21
Common Tern §			34	23
Forster's Tern † §			0	1
Mourning Dove	T	FY	95	95
Yellow-billed Cuckoo	S		6	18
Black/Yell-billed Cuckoo		T	0	18
Black-billed Cuckoo	T	CF	58	75
Eastern Screech-Owl			12	49
Great Horned Owl	P	S	74	55
Barred Owl		T	20	49
Long-eared Owl ‡		S	3	4
Short-eared Owl †			1	4
North Saw-whet Owl		S	9	12
Common Nighthawk		S	63	40
Whip-poor-will	S	S	60	38
Chimney Swift			63	32
Ruby-thr Hummingbird	H	D	88	95
Belted Kingfisher	T	T	95	92
Red-headed Woodpecker †	AE		65	29
Yellow-bellied Sapsucker	S	NY	80	95
Downy Woodpecker	P	NY	95	96
Hairy Woodpecker	P	NY	95	93
Northern Flicker	P	AE	98	95
Pileated Woodpecker	S	T	80	93
Olive-sided Flycatcher			22	20
Eastern Wood-Pewee	S	T	96	96
Yellow-bellied Flycatcher ‡		X	0	1
Alder Flycatcher	A	T	47	76

[next page >>](#)

Ontario Breeding Bird Atlas - Summary Sheet for Square 17NK94 (page 2 of 3)

SPECIES	Code		%		SPECIES	Code		%		SPECIES	Code		%	
	1st	2nd	1st	2nd		1st	2nd	1st	2nd		1st	2nd	1st	2nd
Willow Flycatcher		H	42	55	Sedge Wren		S	19	20	Pine Warbler		T	26	80
Least Flycatcher	H	T	88	89	Marsh Wren		A	42	33	Kirtland's Warbler †			1	0
Eastern Phoebe	NE	NY	95	96	Golden-crown Kinglet			7	21	Prairie Warbler †			6	9
Gr Crested Flycatcher	T	T	98	96	Ruby-crown Kinglet			6	7	Bay-breasted Warbler ‡		X	1	3
Eastern Kingbird	FY	CF	98	95	Blue-gr Gnatcatcher ‡			14	24	Cerulean Warbler †	H		12	16
Loggerhead Shrike †			15	3	Eastern Bluebird	NY	CF	57	73	Black-white Warbler	H	T	84	93
Yellow-throated Vireo ‡		S	30	26	Veery	T	NE	95	96	American Redstart	T	T	85	90
Blue-headed Vireo		T	9	38	Swainson's Thrush		P	14	20	Ovenbird	T	DD	98	96
Warbling Vireo	T	NY	92	93	Hermit Thrush	H	D	39	69	North Waterthrush	S	S	61	86
Philadelphia Vireo ‡			1	4	Wood Thrush	T	NE	90	92	Mourning Warbler	S	T	63	81
Red-eyed Vireo	T	NY	93	96	American Robin	NY	NY	98	96	Common Yellowthroat	T	V	92	95
Blue Jay	P	NY	96	96	Gray Catbird	FY	T	98	96	Canada Warbler	S	T	46	56
American Crow	FY	NY	98	96	Northern Mockingbird		S	6	18	Scarlet Tanager	T	T	79	86
Common Raven		T	7	55	Brown Thrasher	FY	T	96	92	Eastern Towhee	T	T	53	73
Horned Lark	FY	H	68	47	European Starling	NY	NY	98	96	Chipping Sparrow	NE	NY	96	96
Purple Martin			61	27	Cedar Waxwing	D	D	98	96	Clay-colored Sparrow	D		14	36
Tree Swallow	NY	NY	98	96	Blue-winged Warbler			4	24	Field Sparrow	T	A	84	87
North Rgh-wing Swallow		H	68	56	Golden-winged Warbler		H	30	43	Vesper Sparrow	NE	P	84	70
Bank Swallow §	AE	AE	88	58	Blue/Gold-wing Warbler ‡			0	15	Savannah Sparrow	T	DD	88	81
Cliff Swallow §		H	82	63	Brewster's Warbler †			0	3	Grasshopper Sparrow	T	T	38	41
Barn Swallow	NY	AE	96	95	Nashville Warbler	T	T	74	84	Song Sparrow	NY	NY	98	96
Black-capped Chickadee	AE	NY	96	96	Northern Parula		H	12	21	Swamp Sparrow		CF	84	86
Tufted Titmouse †			1	0	Yellow Warbler	FY	CF	98	92	White-throat Sparrow	S	T	95	87
Red-breast Nuthatch	T	T	52	90	Chestn-sided Warbler	T	T	68	95	Dark-eyed Junco		T	25	21
White-breast Nuthatch	T	FY	87	93	Magnolia Warbler	H	S	20	58	Northern Cardinal		T	66	84
Brown Creeper		S	55	60	Black-thr Blue Warbler		T	22	63	Rose-breast Grosbeak	FY	NY	95	93
Carolina Wren ‡			1	6	Yellow-rumped Warbler		T	41	78	Indigo Bunting	A	A	90	93
House Wren	NY	AE	87	95	Black-thr Green Warbler		DD	34	90	Bobolink	CF	CF	87	83
Winter Wren	S	T	68	95	Blackburnian Warbler		S	28	58	Red-wing Blackbird	FY	CF	96	96

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SPECIES	Code		%	
	1st	2nd	1st	2nd
Eastern Meadowlark	FY	T	88	83
Western Meadowlark ‡			6	1
Yellow-h Blackbird †			1	0
Rusty Blackbird ‡			1	1
Brewer's Blackbird ‡			3	7
Common Grackle	CF	T	96	96
Brown-head Cowbird	NE	NE	98	95
Orchard Oriole ‡			0	1
Baltimore Oriole	N	NY	96	96
Purple Finch	FY	D	66	73
House Finch		NE	3	72
Red Crossbill ‡			7	1
White-winged Crossbill ‡			1	3
Pine Siskin			17	18
American Goldfinch	AE	NY	98	96
Evening Grosbeak			15	15
House Sparrow	NY	P	88	75

This list includes all species found during the Ontario Breeding Bird Atlas (1st atlas: 1981-1985, 2nd atlas: 2001-2005) in the region #13 (Simcoe County). Underlined species are those that you should try to add to this square. They have not yet been reported during the 2nd atlas, but were found during the 1st atlas in this square or have been reported in more than 50% of the squares in this region during the 2nd atlas so far. In the species table, "BE 2nd" and "BE 1st" are the codes for the highest breeding evidence for that species in square 17NK94 during the 2nd and 1st atlas respectively. The % columns give the percentage of squares in that region where that species was reported during the 2nd and 1st atlas (this gives an idea of the expected chance of finding that species in region #13). Rare/Colonial Species Report Forms should be completed for species marked: § (Colonial), ‡ (regionally rare), or † (provincially rare). Current as of 16/02/2010. An up-to-date version of this sheet is available from <http://www.birdsontario.org/atlas/summaryform.jsp?squareID=17NK94>

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