

# RE ORILLIA 2 SOLAR PROJECT

Natural Heritage Records Review Report

March 11, 2011

RECURRENT  
ENERGY





RE Orillia 2 ULC

Natural Heritage  
Records Review Report

RE Orillia 2 Solar Project

H334680-0000-07-124-0080

Rev. 1

March 11, 2011

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Project Report

March 11, 2011

**RE Orillia 2 ULC**  
**RE Orillia 2 Solar Project**

**Natural Heritage Records Review Report**

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## 1. Introduction

### 1.1 Project Description

RE Orillia 2 ULC is proposing to develop and operate a 10-megawatt (MW) solar photovoltaic (Solar PV) facility, on an approximately 30-hectare (ha) parcel of land located, about 7 km west-southwest of Orillia in the Township of Oro-Medonte in the County of Simcoe (Figure 1.1); herein referred to as “RE Orillia 2” or the “Project”. The Project location is denoted by the red boundary and indicates the area within which Project components will be sited. The Study Area is delineated by the black boundary and includes an assessment of lands within 120 m of the Project location.

### 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), or
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, or
- 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.

### 1.3 MNR Approval and Permitting Requirements

Beyond the REA legislative requirements identified in Section 1.2, additional information on site conditions must be identified in order to determine if Ministry of Natural Resources (MNR) approvals and permits separate from the REA are required. Consideration of the following features is needed in order to make this determination:

- Presence of natural hazard lands – Hazardous lands are defined in Section 28 (25) of the *Conservation Authorities Act* as “land that could be unsafe for development because of naturally occurring processes associated with flooding, erosion, dynamic beaches or unstable soil or bedrock”. If Project components are to be located in these areas, approval must be obtained from the local Conservation Authority/MNR.
- Presence of petroleum resource operations – Approval is required if Project components are to be located within 75 m of a petroleum resource operation.
- Crown-owned forest resources – If Project components are located in an area of Crown-owned forest resources, then authorization must be obtained from MNR prior to clearing of timber on that land.

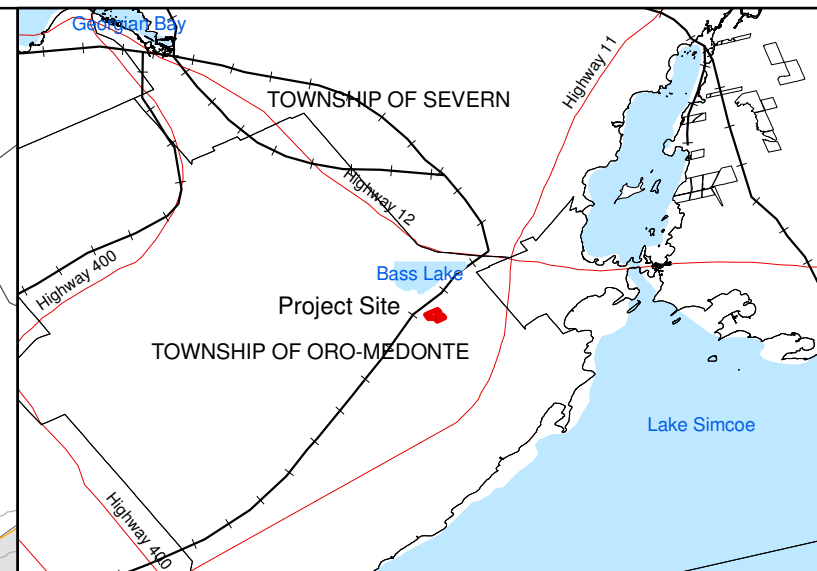
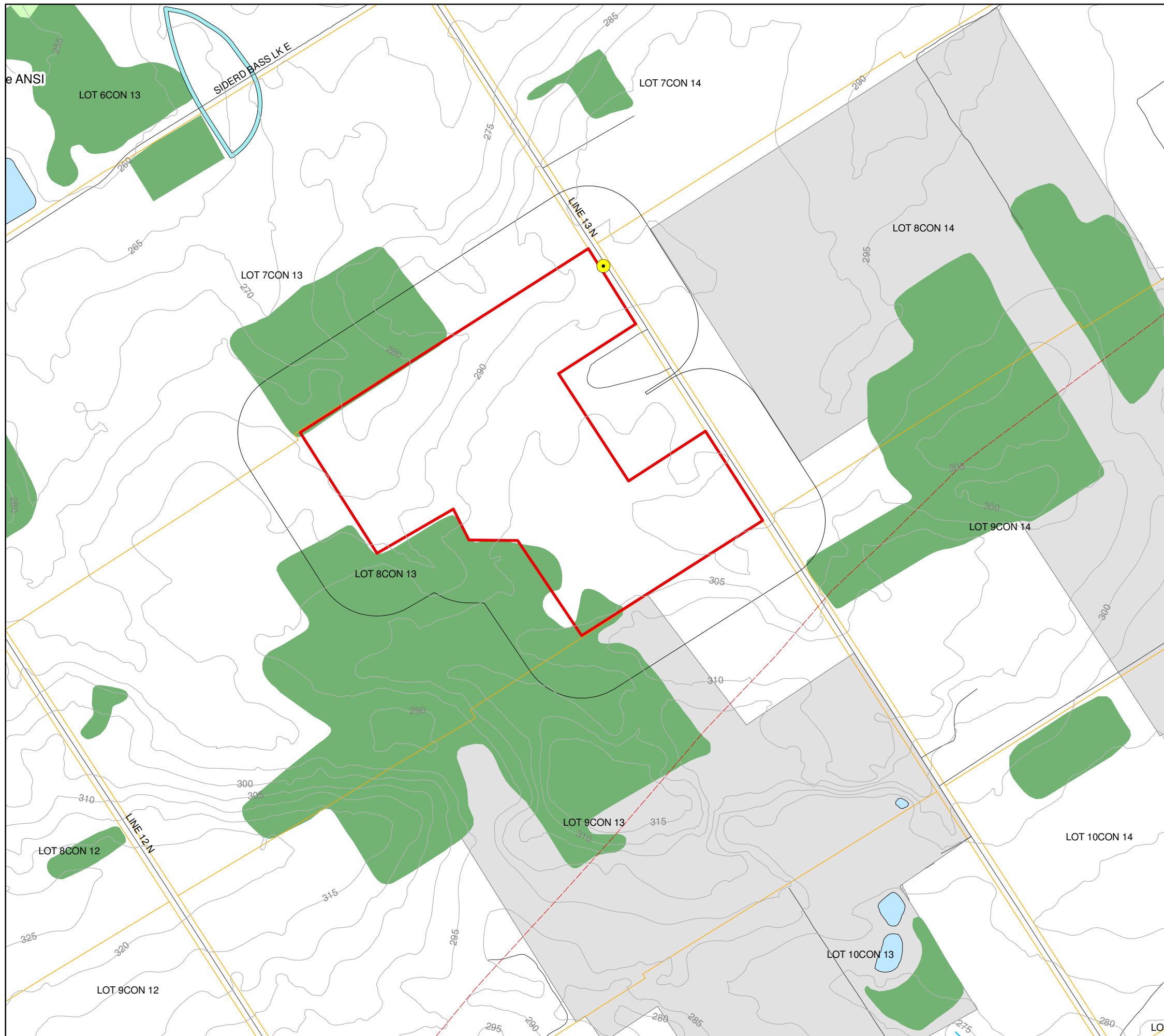
## 2. Methodology and Results

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 within or adjacent to 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.

As indicated in Figure 1.1, Project components will be limited to the Project location (denoted by the red boundary). The Study Area (delineated by the black boundary) includes an additional 120 m of lands adjacent to the Project. The contents of this Report are based on an assessment of the natural heritage features captured within the Study Area for the Project. Records were searched within a minimum distance of 1 km from the Study Area. 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).

Based on the definitions of the following authorities within O.Reg. 359/09, there are no planning boards, local roads boards or local services boards with jurisdiction over the Project location. Also, the Project location is not located within the Niagara Escarpment Commission Plan Area. Therefore, records review for these additional governing bodies was not conducted.

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



- Legend**
- Connection Point With Existing Distribution Line
  - Road
  - Snowmobile Trail
  - Topographic Contour (5m interval)
  - Watercourse
  - Project Site
  - Study Area
  - Parcels
  - Pit/Quarry
  - Waterbody
  - Wetlands
  - Wooded Area
- Nottawasaga Valley Conservation Authority Data**
- NVCA Wetlands Buffer



Notes:  
 1. Base data downloaded from www.geographynetwork.ca, other environmental data from LIO.  
 2. Spatial referencing UTM NAD83. June 2010.

Figure 1.1  
 Recurrent Energy  
**RE Orillia 2**  
 Natural Heritage Features

Back of figure

## 2.1 Ministry of Natural Resources Records

### 2.1.1 Methodology

The following MNR on-line records were reviewed:

- Ontario Crown Lands 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](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 Project is located within the jurisdiction of the MNR's Midhurst District. As such, the Midhurst District MNR office was also asked to provide any locally available information they had available regarding natural features on or adjacent to the Study Area that should be considered for the Project.

### 2.1.2 Results

Mapping data obtained from LIO is illustrated in Figure 1.1. Based on the LIO mapping, there are two natural features identified on or within 120 m of the Project location. These are potential woodlands along the northern and southwestern boundaries of the Project location, with minor occurrence of the woodland along the southwestern boundary on the Project location.

Other natural features not within 120 m of the Project location, but present within the region (though not identified on Figure 1.1), include

- the Bass Lake Provincially Significant Wetland (PSW) located approximately 1 km north from the Project location
- the Bass Lake ANSI (life science) located approximately 1 km north from the Project location
- the Langman Marsh PSW located several kilometres northeast from the Project location
- the Orillia Filtration Swamp PSW located several kilometres southeast from the Project location
- the Rugby West ANSI (life science) located several kilometres west from the Project location.

No specific wildlife habitat features or valleylands were identified in the vicinity of the Study Area. There is no Crown land present within the Study Area, and therefore no Crown Forest Resources were identified. There are no provincial parks or conservation reserves on or within 120 m of the Project location.

A review of the NHIC database did not identify any species of conservation concern/species at risk occurrences from within 1 km of the Project location (NHIC, 2008a).

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

- Blanding's Turtle (*Emydoidea blandingii*) – Listed as Threatened under the ESA;
- Milksnake (*Lampropeltis triangulum*) – Listed as Special Concern under the ESA; and,
- Snapping Turtle (*Chelydra serpentina*) – Listed as Special Concern under the ESA.

Habitat for Blanding's Turtle is protected under the Endangered Species Act, and therefore is considered separately from the Natural Heritage Assessment conducted herein.

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

## 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](http://www.cws-scf.ec.gc.ca)) and Environment Canada ([www.ec.gc.ca](http://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 Conservation Authorities

### 2.3.1 Methodology

The proposed Project is situated within the jurisdiction of the Nottawasaga Valley Conservation Authority (NVCA). The NVCA was asked to provide any information available regarding the natural features on or within 120 m of the Project location.

### 2.3.2 Results

Information received from the NVCA on October 16, 2009 shows that the Project location is not situated in any Regulated Area (e.g., area with Flood or Erosion Hazards or within 120 m from a designated wetland). Refer to Appendix A for a copy of the correspondence received from the NVCA.

No other information relating to natural features was provided by the NVCA.

**Table 2.1 Reptiles and Amphibians Potentially Occurring within the Study Area and their Conservation Status<sup>1</sup>**

Species		Conservation Status <sup>2</sup>
Common Name	Scientific Name	Ontario SRANK <sup>3</sup>
<b>Salamanders</b>		
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
<b>Frogs and Toads</b>		
American Toad	<i>Bufo americanus</i>	S5
Midland Chorus Frog	<i>Pseudacris triseriata 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
<b>Turtles</b>		
Snapping Turtle	<i>Chelydra serpentina</i>	S5
Midland Painted Turtle	<i>Chrysemys picta marginata</i>	S5
Blanding's Turtle	<i>Emydoidea blandingii</i>	S3
<b>Snakes</b>		
Eastern Milksnake	<i>Lampropeltis triangulum</i>	S3
Smooth Green Snake	<i>Opheodrys vernalis</i>	S4
Dekay's Brownsnake	<i>Storeria dekayi</i>	S5
Red-bellied Snake	<i>Storeria occipitomaculata</i>	S5
Eastern Gartersnake	<i>Thamnophis sirtalis sirtalis</i>	S5

<sup>1</sup> As determined from potential climatic domain maps in McKenney et al (2007) and range maps provided in Oldham and Weller (2000).

<sup>2</sup> Accessed from NHIC (2008b).

<sup>3</sup> SRANK = Provincial Status (NHIC, 2008b); S = Sub-national Rank (Ontario), 2 = Imperilled, 3 = Vulnerable, 4 = Apparently Secure, 5 = Secure, E = Exotic, U = Unknown.

## 2.4 Municipal Records

### 2.4.1 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 Recurrent Energy 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 Oro-Medonte***

The Project is also located within the lower tier municipality of the Township of Oro-Medonte (TOM). Information regarding natural features was requested from Township staff from the planning department during a meeting between the Township of Oro-Medonte, Hatch, and Recurrent Energy on March 8, 2010. The Township recommended reviewing their Official Plan (TOM, 2007) and Zoning By-Law (TOM, 2005).

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

## **2.4.2 Results**

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

The Official Plan of the TOM did not identify any floodplain mapping within the vicinity of the Project.

The Project location is located within the Oro Moraine boundary. Schedule A of the Official Plan of the TOM indicates that the Project location is located on agricultural land within the Oro Moraine (TOM, 2007).

## **2.5 Other Records**

### **2.5.1 Methodology**

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

- Ontario Breeding Bird Atlas (Bird Studies Canada et al., 2006)
- Atlas of the Mammals of Ontario (Dobbyn, 1994)
- Important Bird Areas of Canada (<http://www.ibacanada.ca/mapviewer.jsp?lang=en>)
- Ontario Oil, Gas and Salt Petroleum Well Mapping (<http://maps.ogsrlibrary.com/>).

### **2.5.2 Results**

No active petroleum resource operations were identified within 300 m of the Project location.

Map square 17PK13 in the Ontario Breeding Bird Atlas overlaps the Project location and lands within 120 m of the Project location. Results from surveys within this square were reviewed to determine the bird species potentially present within the Study Area. The breeding bird list for map square 17PK13 is provided in Appendix B. Of the species that were recorded, several species of conservation concern/species at risk were identified. These species are as follows:

- Bobolink (*Dolichonyx oryzivorus*) – Listed as Threatened under the ESA
- Olive-sided Flycatcher (*Contopus cooperi*) – Listed as Special Concern under the ESA
- Red-headed Woodpecker (*Melanerpes erythrocephalus*) – Listed as Special Concern under the ESA
- Cerulean Warbler (*Dendroica cerulea*) – Listed as Special Concern under the ESA

- Golden-winged Warbler (*Vermivora chrysoptera*) – Listed as Special Concern under the ESA
- Canada Warbler (*Wilsonia canadensis*) – Listed as Special Concern under the ESA.

Habitat for Bobolink is protected under the Endangered Species Act, and therefore is considered separately from the Natural Heritage Assessment conducted herein.

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 located on or within 120 m of the Project location.

The Atlas of the Mammals of Ontario (Dobbyn, 1994) identified several species of mammal that have the potential to occur on or within 120 m of the Project location (Table 2.2). None of these species are considered to be species at risk or species of conservation concern.

**Table 2.2 Mammal Species Potentially Occurring on or within 120 m of the Project Location<sup>1</sup>**

Species		Conservation Rank <sup>2</sup>
Common Name	Scientific Name	Ontario SRANK <sup>3</sup>
<b>Shrews and Moles</b>		
Smoky Shrew	<i>Sorex fumeus</i>	S5
Common Shrew	<i>Sorex cinereus</i>	S5
Water Shrew	<i>Sorex palustris</i>	S5
Hairy-tailed Mole	<i>Parascalops breweri</i>	S4
Star-nosed Mole	<i>Condylura cristata</i>	S5
Northern Short-tailed Shrew	<i>Blarina brevicauda</i>	S5
<b>Bats</b>		
Little Brown Bat	<i>Myotis lucifuga</i>	S5
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	S4
Big Brown Bat	<i>Epstesicus fuscus</i>	S5
Eastern Red Bat	<i>Lasiurus borealis</i>	S4
Hoary Bat	<i>Lasiurus cinereus</i>	S4
<b>Rabbits and Hares</b>		
Eastern Cottontail	<i>Sylvilagus floridanus</i>	S5
European Hare	<i>Lepus europaeus</i>	SNA
Snowshoe Hare	<i>Lepus americanus</i>	S5
<b>Rodents</b>		
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

Species		Conservation Rank <sup>2</sup>
Common Name	Scientific Name	Ontario SRANK <sup>3</sup>
House Mouse	<i>Mus musculus</i>	SE
Woodland Jumping Mouse	<i>Napaeozapus insignis</i>	S5
Meadow Jumping Mouse	<i>Zapus hudsonius</i>	S5
<b>Carnivores</b>		
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
<b>Ungulates</b>		
Moose	<i>Alces alces</i>	S5
White-tailed Deer	<i>Odocoileus virginianus</i>	S5

<sup>1</sup> Based on Range Maps provided in Dobbyn, 1994.

<sup>2</sup> Accessed from NHIC, 2008b.

<sup>3</sup> 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 figure depicting the identified natural features on and in proximity to the Project Study Area is illustrated in Figure 1.1. Table 3.1 only summarizes the features that are known to exist, and it is expected that other natural features will be identified during the site investigation.

**Table 3.1 Summary of Records Review Determinations**

Determination to be Made	Yes/No	Description
If the Project in or within 120 m of a provincial park or conservation reserve	No	
Is the Project in a natural feature?	Yes	A portion of a woodland occurs on the Project location. Habitat for species of conservation concern may also be found on the Project location.
Is the Project within 50 m of an ANSI (earth science)?	No	The nearest earth science ANSI is located several kilometres from the Project location.
Is the Project within 120 m of a natural feature that is not an ANSI (earth science)?	Yes	There are woodlands identified within 120 m of the Project location. Habitat for species of conservation concern may also be found on 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 within 120 m of the Project location, iii) delineate the boundaries of the natural features on or within 120 m of the Project location, and iv) determine the distance from the Project location 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](http://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](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](http://www.sararegistry.gc.ca/species/speciesDetails_e.cfm?sid=999). Accessed February 24, 2010; Last Updated January 11, 2010.
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Township of Oro-Medonte (TOM). 2007. Township of Oro-Medonte Official Plan. Available on-line at <http://www.oro-medonte.ca/Government/OfficialPlan/index.htm>. Accessed February 24, 2010.

# Appendix A

## Nottawasaga Valley Conservation Authority Data



October 16, 2009

Recurrent Energy  
 Attention: Sean Caffyn  
 4025 Dorchester Road, Unit 15-136  
 Niagara Falls, Ontario  
 L2E 6N1

### Member Municipalities

Adjala-Tosorontio  
 Amaranth  
 Barre  
 The Blue Mountains  
 Bradford-West Gwillimbury  
 Clearview  
 Collingwood  
 Essa  
 Innisfil  
 Melancthon  
 Mono  
 Mulmur  
 New Tecumseth  
 Oro-Medonte  
 Grey Highlands  
 Shelburne  
 Springwater  
 Wasaga Beach

### Watershed Counties

Simcoe  
 Dufferin  
 Grey

Re: Property Inquiry  
 Part East ½ Lot 8, Concession 13,  
 Township of Oro-Medonte, County of Simcoe

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Thank you for consulting the Nottawasaga Valley Conservation Authority (NVCA) with regard to property clearance for the above noted transaction. The NVCA has reviewed the environmental information related to the property and we have determined the following:

1. That the property is not within a Regulatory floodplain;
2. That any issues associated with intensive development of the property will be dealt with through the land use planning process (e.g. Site Plan Control or Plan of Subdivision under the *Planning Act*);
3. That no significant environmental features or functions have been identified on the property; and,
4. That a permit for development of the property is not required from the NVCA under Section 28 of the *Conservation Authorities Act*.

If you have any questions, please contact the undersigned at extension 245.

Sincerely,

Barb Perreault – Senior Environmental Officer (705) 424-1479  
 Officer under the *Conservation Authorities Act*

Member of



*Conserving our Healthy Waters*



# Appendix B

## Ontario Breeding Bird Atlas Data



**Square Summary (17PK13)**

#species (1st atlas)				#species (2nd atlas)			#hours		#pc done		
poss	prob	conf	total	poss	prob	conf	total	1st	2nd	road	offrd
19	40	40	99	33	50	35	118	78	65	36	6

**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	NE	58	95
Trumpeter Swan †		A	0	43
Wood Duck	FY	P	76	78
Gadwall ‡			6	4
American Wigeon			6	12
American Black Duck	P	T	44	47
Mallard	NE	FY	93	95
Blue-winged Teal	FY	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	D		36	46
Red-breast Merganser			9	20
Gray Partridge ‡			0	1
Ring-necked Pheasant	H		15	10
Ruffed Grouse	S	FY	92	81
Wild Turkey		D	0	81
Common Loon	S		28	52
Pied-billed Grebe			22	32
Double-crest Cormorant §			11	27
American Bittern	S		50	44
Least Bittern †			12	23
Great Blue Heron §	NY		77	63
Great Egret †			0	1
Green Heron §	A	H	84	70

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

SPECIES	Code		%	
	1st	2nd	1st	2nd
Caspian Tern †		X	1	3
Black Tern † §			30	21
Common Tern §			34	23
Forster's Tern † §			0	1
Mourning Dove	T	T	95	95
Yellow-billed Cuckoo			6	18
Black/Yell-billed Cuckoo			0	18
Black-billed Cuckoo	AE	FY	58	75
Eastern Screech-Owl			12	49
Great Horned Owl	T	NY	74	55
Barred Owl	S	P	20	49
Long-eared Owl ‡			3	4
Short-eared Owl †			1	4
North Saw-whet Owl			9	12
Common Nighthawk	S		63	40
Whip-poor-will	T	T	60	38
Chimney Swift	AE		63	32
Ruby-thr Hummingbird	D	FY	88	95
Belted Kingfisher	N	S	95	92
Red-headed Woodpecker †	H		65	29
Yellow-bellied Sapsucker	CF	NY	80	95
Downy Woodpecker	T	FY	95	96
Hairy Woodpecker	T	NY	95	93
Northern Flicker	T	T	98	95
Pileated Woodpecker	T	T	80	93
Olive-sided Flycatcher		S	22	20
Eastern Wood-Pewee	T	T	96	96
Alder Flycatcher		S	47	76
Willow Flycatcher	S	S	42	55

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## Ontario Breeding Bird Atlas - Summary Sheet for Square 17PK13 (page 2 of 3)

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

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## Ontario Breeding Bird Atlas - Summary Sheet for Square 17PK13 (page 3 of 3)

SPECIES	Code		%	
	1st	2nd	1st	2nd
Western Meadowlark ‡			6	1
Yellow-h Blackbird †			1	0
Rusty Blackbird ‡			1	1
Brewer's Blackbird ‡			3	7
Common Grackle	CF	CF	96	96
Brown-head Cowbird	FY	T	98	95
Orchard Oriole ‡			0	1
Baltimore Oriole	NE	FY	96	96
Purple Finch	S	FY	66	73
House Finch		S	3	72
Red Crossbill ‡			7	1
White-winged Crossbill ‡			1	3
Pine Siskin			17	18
American Goldfinch	T	FY	98	96
Evening Grosbeak			15	15
House Sparrow	NE	H	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 17PK13 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 17/02/2010. An up-to-date version of this sheet is available from <http://www.birdsontario.org/atlas/summaryform.jsp?squareID=17PK13>

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