Appendix E

Summary of 2011, 2012 and 2013 Herpetological Surveys – Henvey Inlet Wind Energy Centre Study Area

Henvey Inlet Wind LP

Henvey Inlet Wind

Summary of 2011, 2012 and 2013 Herpetological Surveys ±Henvey Inlet Wind Energy Centre Study Area

Prepared by:

AECOM
105 Commerce Valley Drive West, Floor 7 905 886 7022 tel
Markham, ON, Canada L3T 7W3 905 886 9494 fax
www.aecom.com

Project Number:

60341251

Date:

September 2015

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LQ DFFRUGDQFH ZLWK WKH DJUHHPHQW EHWZHHQ &RQVXOWDQW DQG &OLHQW LQF

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AECOM Signatures

Report Prepared By:

Olga Hropach, B.Sc. (Hons).
Ecologist

Heather Kime, H.B.Sc.
Terrestrial Ecologist

Report Reviewed By:

Jill deMan, H.B.Sc
Terrestrial and Wetland Ecologist

Jessica MacKay Ward, Ph.D.
Senior Ecologist

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Appendix A. Field Notes and Documentation

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1. Introduction

In 2011 and 2012, LGL Limited (LGL) collected field data to determine baseline conditions within the Henvey Inlet Wind Energy Centre (HIWEC) study area. The data collected by LGL included:

- Raptor Migration;
- Passerine Migration;
- Breeding Birds;
- Herpetological Surveys; and
- Bat Acoustic Monitoring.

In 2013, Stantec Consulting Ltd. (Stantec) continued field data collection within the HIWEC study area. The data collected by Stantec included:

- Raptor Migration;
- Passerine Migration;
- Waterfowl Migration;
- Breeding Birds;
- Herpetological Surveys;
- Bat Acoustic Monitoring;
- Ecosite Classification and Rare Flora;
- Herpetological Incidental Observations; and
- Other Incidental Wildlife Observations.

This report has been prepared by AECOM to summarize the 2011 to 2013 Herpetological Surveys field data for the HIWEC study area. This is based on raw field data and GIS data collected by LGL and Stantec during the 2011, 2012, and 2013 seasons. This information was provided to AECOM by Stantec in October 2014 and by WSP for the LGL data in May 2015. The following provides the work plans written by LGL and Stantec which outline data collection methods as well as AECOM's summary and analysis of the data collected, and assumptions made concerning the data.

LGL and Stantec provided AECOM with the following documents which were used to produce this report:

2011
- $QQH[([FHO VSUHDGVKHHW VXPPDU\ 2011_2012_Herptiles_summary_sheet.xlsx´
- $QQH[([FHO VSUHDGVKHHW VXPPDU\ LGL_2015-07-07-GUHVXOWV HQ LGL_Herp_Observations_Workbook.xlsx´ DQG
- $QQH[([FHO VSUHDGVKHHW VXPPDU\ 2011QJ ILHOG UHVXOWV HQ 2012_Herp_Observations_Workbook.xlsx´

2012
- $QQH[([FHO VSUHDGVKHHW VXPPDU\ 2011_2012_Herptiles_summary_sheet.xlsx´
- $QQH[([FHO VSUHDGVKHHW VXPPDU\ LGL_2015-07-07-GUHVXOWV HQ LGL_Herp_Observations_Workbook.xlsx´
- $QQH[([FHO VSUHDGVKHHW VXPPDU\ 2011QJ ILHOG UHVXOWV HQ 2012_Herp_Observations_Workbook.xlsx´

2013
- Scanned handwritten field QRWHV HQWHUHG 6082414_Amphibian_Call.pdf´
- 6FDQQHG KDQGZULWWHQ ILHOG QRWHV HQWHUHG 6082414_Reptile_Call.pdf´ [3]
- $QQH[([FHO VSUHDGVKHHW VXPPDU\ LQJ 6SHFLHV DW 5LVN observations.xlsx´ DQG
- An Excel spreadsheet indicating DOO VXUYH\ORFDWLRQV HQWHUHG locations_UTM_MC_07112013.xlsx´ [3]

Copies of the above files are provided in Appendix A [1].

1. Records of Species At Risk considered to be restricted are not being made public due to the threat of poaching experienced by these species. These records will be provided under a separate cover to the Ministry of Natural Resources and Forestry (MNRF) and / or Environment Canada ±Canadian Wildlife Service (EC-CWS) for permitting purposes.

2. Methods

2.1 Work Plan

The following sections provide a description of work plan methods written by LGL and Stantec for the various Herpetological Surveys . These descriptions are taken directly from LGL ¶ Work plan for the Nigig Power Wind Farm Project Background Ecological Studies (LGL, 2011a) and Stantec ¶ Terrestrial Survey Work Program (Stantec, 2013), respectively.

Complete copies of LGL ¶ Work plan for the Nigig Power Wind Farm Project Background Ecological Studies (LGL, 2011a) and Stantec ¶ Terrestrial Survey Work Program (Stantec, 2013) are provided in Appendix B [2].

2.1.1 2011 and 2012 Herpetological Surveys (LGL, 2011a)

Ecological Receptor	Recommended Studies	Timing
Reptiles (SAR and non -SAR)	Incidental observations confirm species and distribution within study area. Focused habitat identification within construction footprint of Project elements (e.g., road alignments, laydown and tower areas). General habitat identification (and avoidance) by ELC delineation of wetland communities as preliminary constraints. Desktop review of key reptile habitat (e.g., overwintering sites, nesting and incubation areas) and seasonal biology (e.g., timings of key life history elements) to inform spatial and temporal avoidance and mitigation strategies.	Incidental (spring, summer and fall)
Amphibians (SAR and non -SAR)	Incidental observations confirm species and distribution within study area. Focused habitat identification within construction footprint of Project elements (e.g., watercourse and wetland crossings). General habitat identification (and avoidance) by ELC delineation of wetland communities as preliminary constraints. Desktop review of key amphibian habitat (e.g., overwintering sites, breeding areas) and seasonal biology (e.g., overwintering, emergence, breeding) to inform spatial and temporal avoidance and mitigation strategies.	Incidental (spring, summer and fall)

2.1.2 2013 Herpetological Surveys (Stantec, 2013)

¶Western Chorus Frog and Salamanders (April):
Western Chorus Frog surveys will consist of 3-minute call counts at potential breeding habitat conducted in April, during appropriate weather conditions. This species breeds in small or shallow aquatic habitats associated with moist, open terrestrial habitat (COSEWIC, 2008c). Males call from the water and are typically active when air temperatures are above 5° C, although calls have been detected at air temperatures as low as -1° C (COSEWIC, 2008c).

Unlike many anurans, Western Chorus Frogs are generally very active throughout the day. As such, daytime survey will be used to cover larger portions of the Study Area than evening call surveys would permit.

2. Records of Species At Risk considered to be restricted are not being made public due to the threat of poaching experienced by these species. These records will be provided under a separate cover to the Ministry of Natural Resources and Forestry (MNRF) and / or Environment Canada ±Canadian Wildlife Service (EC-CWS) for permitting purposes.

Surveys for amphibian egg masses will take place concurrent with calling surveys. These will consist of perimeter surveys of suitable breeding ponds by trained field personnel. Egg masses of different species are often characteristic based on features such as where they are laid, how many eggs are in the mass, density of the egg mass, and whether or not the eggs are encased in jelly.

Reptile Habitat and Targeted Surveys (May and June):
Reptile habitat and targeted species surveys will take place in three stages.

Preliminary surveys for reptiles will also take place throughout the migratory and breeding bird survey periods. Field biologists familiar with reptile species identification will be conducting area searches and wandering transect surveys in a variety of areas providing habitat for reptiles at both the Project Location, weekly from early April until early July, and along the Transmission Line, weekly from late May until early July. Any incidental observations of turtles, snakes or lizards, including shed skins or shells, will be recorded on survey forms and used to refine the field survey program proposed for June.

Potential snake or turtle habitat within the Study Area will also be identified during Ecosite surveys, beginning in May. The habitat assessment will involve identification of potential reptile habitat features, including:

- Turtle overwintering habitat and snake/skink hibernacula;
- Nesting sites; and,
- Foraging habitats.

Targeted field surveys for reptile species at risk will occur in June. Timing of these surveys will coincide with a period of high activity for reptiles (nesting and foraging), but also when air temperatures encourage basking behaviour. Surveys for snake species at risk and Five-lined Skink will consist of wandering transects through all appropriate habitat types (Table 2-1).

Additional survey effort will be directed toward areas with previous observations of these species which may indicate high quality or limited habitat. To the extent possible, surveys will be conducted on sunny days when air temperatures are a minimum of 15 °C (ideally 20 °C). Surveys for turtles will consist of daytime basking surveys from land or boat in suitable wetland and open water habitat (Table 2-1), and evening nesting surveys in potential upland nesting sites identified during Ecosite surveys. Basking surveys will be conducted on sunny days when air temperatures are a minimum of 15 °C (ideally 20 °C). Nesting surveys will take place on warm evenings (daytime air temperature >20 °C), ideally before or after rainfall. All surveys will record species, number, location and behaviour of observed reptiles.

The purpose of the targeted surveys is to confirm habitat used by the various reptile species at risk within the Study Area and provide information on general abundance and distribution. Survey results will be used to produce detailed mapping of reptile habitat features which will be used to guide the siting layout process and maximize avoidance of sensitive features.

Table 2-1: General Habitat Description and Use by Reptile Species at Risk

	Common Name	General Habitat and Use*
Turtles	Blanding ¶ Turtle	Lakes, ponds and wetlands with clear shallow water and muck bottoms. Will move between habitats within active season; aerial basking; nesting in late May to early July, in open sandy soil up to 2.5 km from primary wetland, but typically within 400 m of water; overwinter in marsh, bog or fen with >0.5 m water depth.
	Eastern Musk Turtle (Stinkpot)	Shallow water in rivers, lakes and ponds with slow current and soft bottom; aquatic basking, often under floating vegetation; nesting in June, in shallow soil near water, occasionally in or under leaf litter; overwinter in primary habitat with muck bottom.

	Common Name	General Habitat and Use*
	Northern Map Turtle	Large rivers and lakes with soft bottom; aerial basking; nesting June and July in sandy soil; overwinter in general habitat in areas with >5 m water depth.
	Snapping Turtle	All aquatic habitats, but rarely in moving water, prefer large water bodies associated with marsh and/or swamp; aquatic basking
Snakes and Lizard	Eastern Hog-nosed Snake	Open forest and forest edges with sandy soil in proximity to water; egg-laying in late June and July in nests excavated in sandy soil, often under cover objects; hibernation in mammal burrows.
	Eastern Foxsnake	Georgian Bay populations inhabit rock barrens with sparse trees and shrubs in close proximity to shorelines; basking under or near rocks or in rock crevices; egg-laying late June to July in rock crevices or decaying vegetation; communal hibernation in rock crevices near shoreline.
	Eastern Massasauga	Georgian Bay populations use rock barrens, wetlands and shorelines; viviparous, bearing young in late summer; communal gestation under rock cover; hibernation in rock crevices or animal burrows where water level is close to surface.
	Eastern Ribbonsnake	Wetland edges with low vegetation and open basking areas; often seen swimming; viviparous, bearing young in late summer; hibernation in rock crevices and mammal burrows.
	Eastern Milksnake	Forest edges and open meadow; bask under cover objects; egg-laying May to July in loose soil, decomposing wood or vegetation; hibernation in rock crevices and mammal burrows, often communally and with other species.
	Five-lined Skink	Open forest and rock barren; abundance of cover objects (rocks and woody debris) is important, longer/larger cover is preferred; nesting in shallow soil under cover objects.

Note: * Habitat description and use data obtained from COSEWIC assessment and st D W X V U H S R U W V ´

3. Results

3.1 Study Area

3.1.1 2011 and 2012

Incidental observations were recorded for reptiles and amphibians encountered by LGL Biologists during breeding bird surveys between May 1 and July 5, 2011 (LGL, 2011b). Refer to Summary of 2011, 2012 and 2013 Breeding Bird Surveys ±Henvey Inlet Wind Energy Centre (AECOM, 2015) for additional information related to the locations of breeding bird survey conducted in 2011 and 2012. Specific locations of the herpetological surveys were not recorded, rather the location of reptiles observed was recorded. Therefore a defined study area for this work cannot be described; however, the locations of reptile Species at Risk observed through these surveys are presented in Figure 3 -1.

Based on correspondence with Sarah Richer (a Biologist who conducted surveys on behalf of LGL in 2011 and 2012), surveys conducted by LGL within the HIWEC study area were primarily focused in the mosaic of wetlands and treed rock barrens in the central and western areas of the HIWEC study area, with less focus placed within the more heavily forested zones in the northeast and southeast portions of the HIWEC study area. Incidental observations of reptiles and amphibians were collected concurrently with other wildlife surveys.

3.1.2 2013

3.1.2.1 Western Chorus Frog and Salamanders

Based on the data provided, Western Chorus Frog (Pseudacris triseriata) and salamander surveys were completed at a total of 28 stations within the HIWEC study area in 2013. Two (2) survey stations were located near the shoreline of the Key River in the northwestern section of the HIWEC study area. Three (3) were located near the north shoreline of Henvey Inlet. Six (6) were located in the southwestern section of the HIWEC study area near Georgian Bay. A total of 12 were located near the southern shore of Henvey Inlet. Three (3) were located along Bekanon Road and two (2) were located near Highway 69. Refer to Figure 3 -2 for the locations of Western Chorus Frog and salamander survey stations.

3.1.2.2 Reptile Habitat and Targeted S urveys

The reptile habitat and targeted surveys which occurred within the HIWEC study area were conducted as wandering transects and area searches. Specific locations of the surveys were not recorded, rather the location of reptiles observed was recorded. Therefore a defined study area for this work cannot be described; however, the locations of reptile Species at Risk observed through these surveys are presented in Figure 3 -3. Furthermore, four (4) reptile habitat and targeted surveys conducted by Stantec within their transmission line study area are within the HIWEC study area. These stations were located along the Highway 69 on the eastern limit of the HIWEC study area. Locations of reptile Species at Risk observed through these surveys are also presented in Figure 3 -3.

Figure 3-1: 2011 ±2012 Important Herpetofaunal Observations

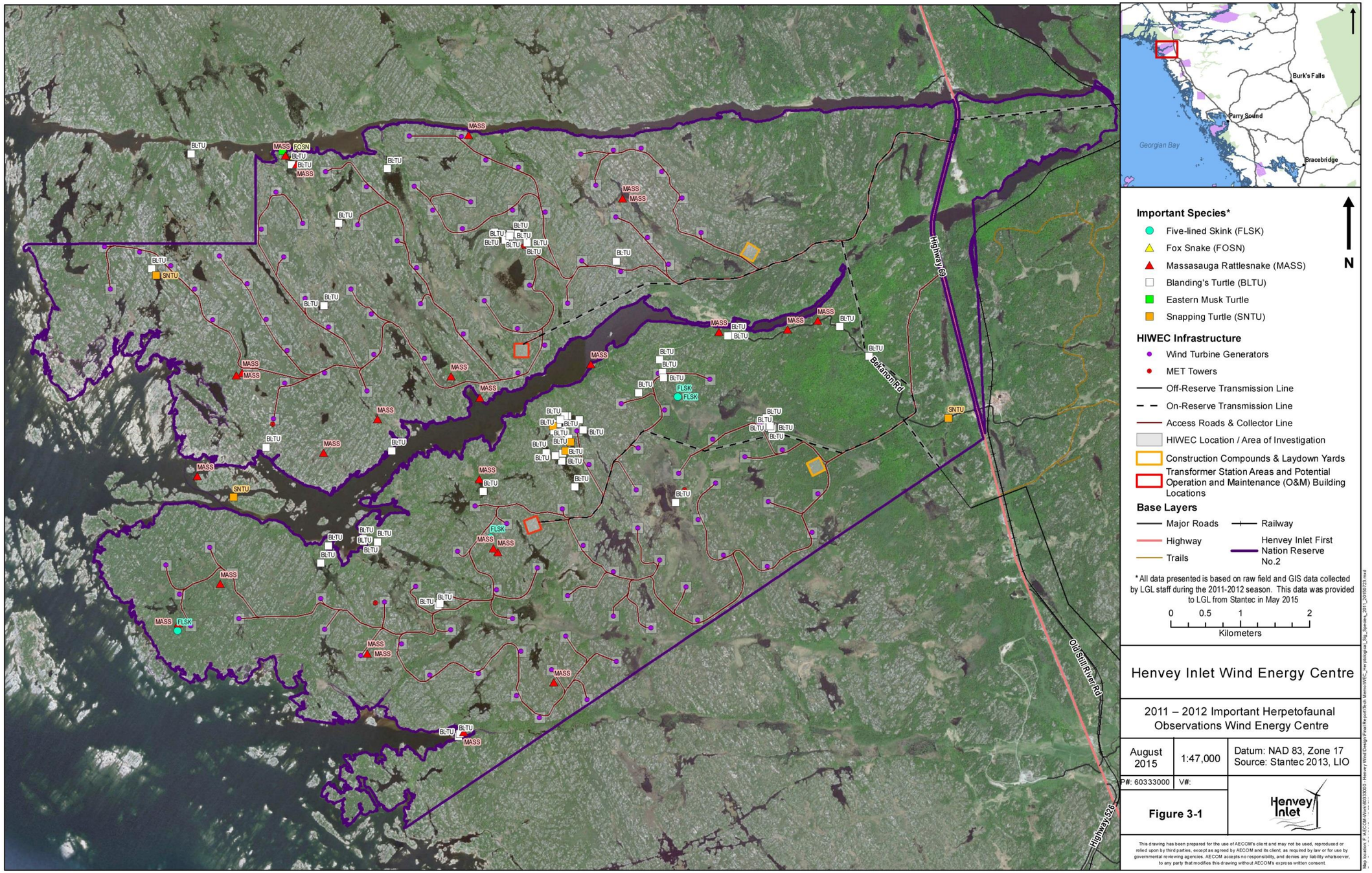
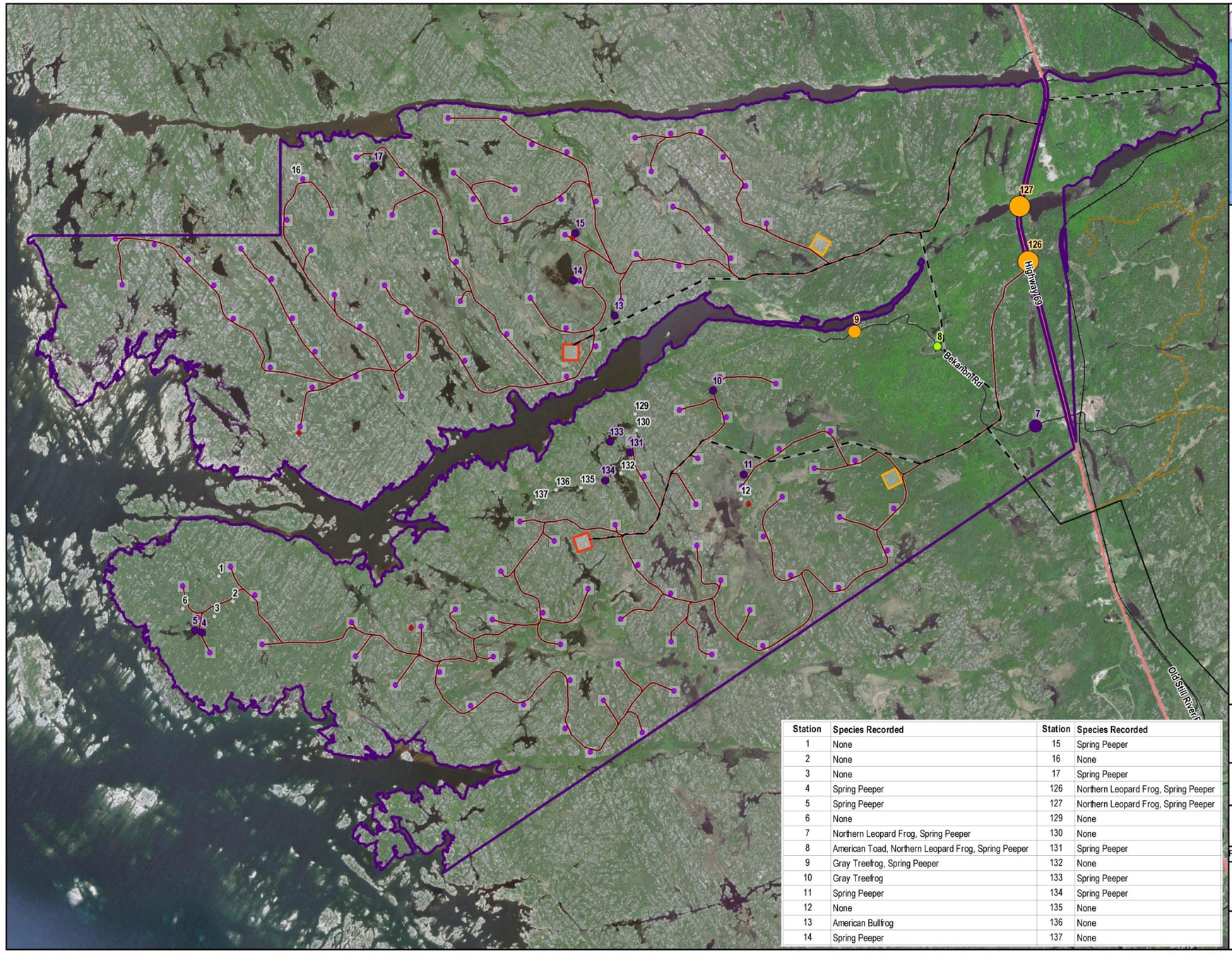


Figure 3-2: 2013 Western Chorus Frog and Salamander Surveys



Station	Species Recorded	Station	Species Recorded
1	None	15	Spring Peeper
2	None	16	None
3	None	17	Spring Peeper
4	Spring Peeper	126	Northern Leopard Frog, Spring Peeper
5	Spring Peeper	127	Northern Leopard Frog, Spring Peeper
6	None	129	None
7	Northern Leopard Frog, Spring Peeper	130	None
8	American Toad, Northern Leopard Frog, Spring Peeper	131	Spring Peeper
9	Gray Treefrog, Spring Peeper	132	None
10	Gray Treefrog	133	Spring Peeper
11	Spring Peeper	134	Spring Peeper
12	None	135	None
13	American Bullfrog	136	None
14	Spring Peeper	137	None

Henvey Inlet Wind Energy Centre

2013 Western Chorus Frog and Salamander Surveys Wind Energy Centre

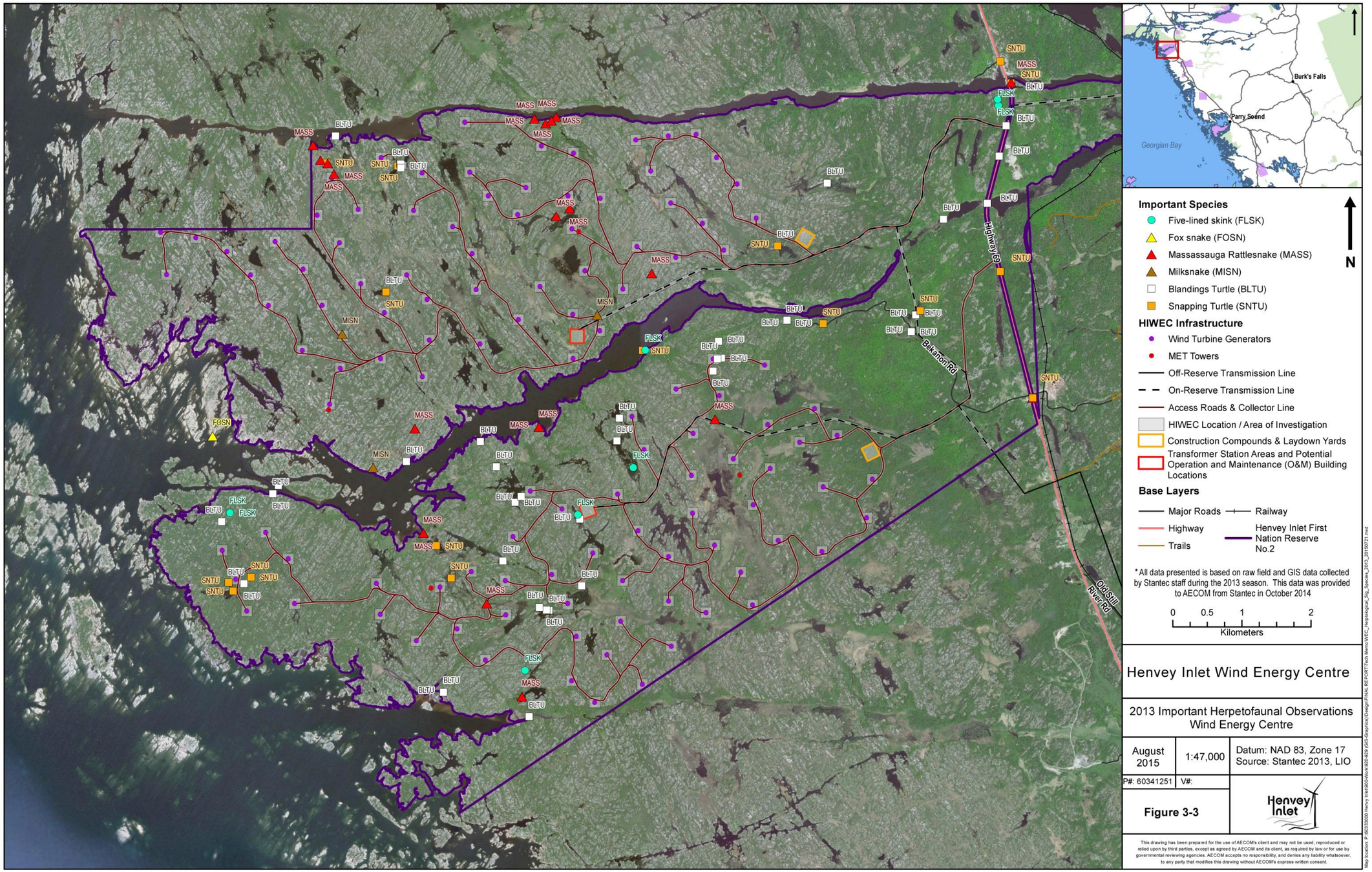
August 2015	1:47,000	Datum: NAD 83, Zone 17 Source: Stantec 2013, LIO
P#: 60333000	V#:	

Figure 3-2

This drawing has been prepared for the use of AECOM's client and may not be used, reproduced or relied upon by third parties, except as agreed by AECOM and its client, as required by law or for use by governmental reviewing agencies. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without AECOM's express written consent.

Map location: F:\AECOM\Work\60333000 - Henvey Wind\Design\Final Report\Tech Memo\WEC_Herpetological_Survey_20150723.mxd

Figure 3-3: 2013 Important Herpetofaunal Observations



3.2 Herpetological Survey Results

3.2.1 2011 and 2012

Locations of important reptile observations were recorded by LGL and provided to AECOM in an Excel file entitled 2011-2012 Herpetiles summary sheet.xlsx. These observations are presented in Appendix A . UTM co-ordinates for observations recorded in this file were mapped by AECOM to confirm that these locations fall within the HIWEC study area. Only those observations that are located within the HIWEC study area are discussed in further detail below.

Based on the data provided, a total of 27 herpetofaunal species were recorded within the HIWEC study area in 2011 and 2012 (Table 3-1). These include five (5) federal Species at Risk (i.e., species listed as Endangered or Threatened under Schedule 1 of the federal Species at Risk Act): Blanding ¶ Turtle (Emydoidea blandingii), Eastern Musk Turtle (Sternotherus odouratus), Eastern Foxsnake (Pantherophis gloydi), Massasauga Rattlesnake (Sistrurus catenatus) and a restricted species. In addition, two (2) Species of Conservation Concern, Snapping Turtle and Five-lined Skink, were observed within the HIWEC study area in 2011 and / or 2012. The locations where these species were observed are shown on Figure 3-1. The locations of the restricted species observations are not being made public due to the threat of poaching experienced by this species.

Table 3-1: 2011 and 2012 Herpetofaunal Observations

Common Name	Scientific Name	Number of Individuals Observed	ESA Status [1]	SARA Status [2]	S-Rank [3]
Turtles (4 species)					
Blanding ¶ Turtle	Emydoidea blandingii	74	Threatened	Threatened (Schedule 1)	S3
Eastern Musk Turtle	Sternotherus odouratus	1	Special Concern	Threatened (Schedule 1)	S3
Midland Painted Turtle	Chrysemys picta marginata	5	-	-	S4
Snapping Turtle	Chelydra serpentina	6	Special Concern	Special Concern (Schedule 1)	S3
Snakes and Lizards (9 species)					
Dekay ¶ Brownsnake	Storeria dekayi	1	-	-	S5
Eastern Foxsnake	Pantherophis gloydi	1	Threatened	Endangered (Schedule 1)	S2
Eastern Gartersnake	Thamnophis sirtalis sirtalis	12	-	-	S5
Five-lined Skink	Plestiodon fasciatus	4	Special Concern	Special Concern (Schedule 1)	S3
Massasauga Rattlesnake	Sistrurus catenatus	21 (4 shed skins also recorded)	Threatened	Threatened (Schedule 1)	S3
Northern Watersnake	Nerodia sipedon sipedon	1	-	-	S5
Red-bellied Snake	Storeria occipitomaculata	3	-	-	S5
Ring-necked Snake	Diadophis punctatus	2	-	-	S4
Smooth Greensnake	Opheodrys vernalis	6	-	-	S4
Frogs (8 species)					
American Bullfrog	Lithobates catesbeianus	Not Recorded	-	-	S4
American Toad	Anaxyrus americanus	Not Recorded	-	-	S5
Gray Treefrog	Hyla versicolor	Not Recorded	-	-	S5
Green Frog	Lithobates clamitans	Not Recorded	-	-	S5
Mink Frog	Lithobates septentrionalis	Not Recorded	-	-	S5
Northern Leopard Frog	Lithobates pipiens	Not Recorded	-	-	S5
Spring Peeper	Pseudacris crucifer	Not Recorded	-	-	S5
Wood Frog	Lithobates sylvaticus	Not Recorded	-	-	S5

Common Name	Scientific Name	Number of Individuals Observed	ESA Status [1]	SARA Status [2]	S-Rank [3]
Salamanders and Newts (5 species)					
Spotted Salamander	Ambystoma maculatum	Not Recorded	-	-	S4
Blue-spotted Salamander	Ambystoma laterale	1	-	-	S4
Red-spotted Newt	Notophthalmus viridescens viridescens	1	-	-	S5
Eastern Red-backed Salamander	Plethodon cinereus	1	-	-	S5
Mole Salamander species	Ambystoma sp.	Not Recorded	-	-	-
Restricted Species (1 species)					

Notes:
1. ESA Status : The Endangered Species Act 2007 (ESA) protects Species at Risk (Threatened and Endangered) at a Provincial Level.
2. SARA Status: The Species at Risk Act (SARA) protects Species at Risk (Special Concern, Threatened and Endangered) at a Federal Level. Species listed under Schedule 1 receive protection under SARA.
3. S-rank: The Natural Heritage provincial ranking system (provincial S-rank) is used by the MNRF Natural Heritage Information Centre (NHIC) to set protection priorities for rare species and natural communities. Definitions are as follows:

S1	Extremely rare in Ontario; usually 5 or fewer occurrences in the province or very few remaining individuals; often especially vulnerable to extirpation.
S2	Very rare in Ontario; usually between 5 and 20 occurrences in the province or with many individuals in fewer occurrences; often susceptible to extirpation.
S3	Rare to uncommon in Ontario; usually between 20 and 100 occurrences in the province; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances. Most species with an S3 rank are assigned to the watch list, unless they have a relatively high global rank.
S4	Common and apparently secure in Ontario; usually with more than 100 occurrences in the province.
S5	Very common and demonstrably secure in Ontario.
SH	Possibly Extirpated (Historical). Species or community occurred historically in the nation or state/province, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20-40 years.
S#S#	A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community.
S#?	Rank uncertain.

There were a total of 74 Blanding ¶ Turtle observations throughout the HIWEC study area during the 2011 and 2012 field seasons (refer to Figure 3 -1 for locations). Based on correspondence with Sarah Richer (a Biologist who conducted surveys on behalf of LGL in 2011 and 2012), some individual turtles that were repeatedly observed in the same small water body in early May continued to be observed throughout the season into September. These individuals were observed in large and small wetlands (beaver ponds, marshes, fens, bogs and swamps), wet ditches and larger puddles along Bekanon Road, and some larger puddles amongst the treed rock barrens, as well as drier uplands. Individuals were observed travelling and foraging on upland treed rock barrens and the more densely forested habitat on the northeast and southeast portions of the HIWEC study area, including both on and adjacent to Bekanon Road. This species was also confirmed to be nesting on Bekanon Road.

The empty shell (both carapace and plastron) of one (1) Eastern Musk Turtle (Sternotherus odouratus) was observed within the HIWEC study area during the 2011 field season (Figure 3 -1). Based on correspondence with Sarah Richer, it was found along the shoreline of the Key River and was estimated to be a ¶winter kill ¶(one that did not survive hibernation) by the LGL Biologist who located it.

There were a total of six (6) Snapping Turtle observations within the HIWEC study area during the 2011 and 2012 field seasons (Figure 3 -1). Based on correspondence with Sarah Richer, this species was also confirmed to be nesting on Bekanon Road.

One (1) adult Eastern Foxsnake was observed within the HIWEC study area during the 2011 and 2012 field seasons (Figure 3 -1). This observation was made on the north side of Henvey Inlet, approximately 100 m inland from the Key River adjacent to a large wetland.

A total of four (4) Five-lined Skinks were observed within the HIWEC study area during the 2011 and 2012 field seasons (Figure 3-1). These observations were all made on the southern side of the HIWEC study area. Based on correspondence with Sarah Richer, each individual was observed in treed rock barrens with abundant cover objects adjacent to water sources.

There were a total of 21 Massasauga Rattlesnake observations (as well as four shed skins) within the HIWEC study area during the 2011 and 2012 field seasons (Figure 3-1). This total includes two (2) records of Massasauga Rattlesnakes observed killed by vehicles on Bekanon Road. Based on correspondence with Sarah Richer, these individuals were observed in large and small wetlands (beaver ponds, marshes, fens, bogs and swamps), and drier uplands, including the treed rock barrens and the more densely forested habitat on the northeast and southeast portions of the HIWEC study area and along Bekanon Road.

In addition, six (6) predated turtle nests were observed in the HIWEC study area. Based on correspondence with Sarah Richer, these nests were found primarily in sandy areas along the shoreline of Georgian Bay in Sandy Bay, and along the south shore of Henvey Inlet, as well as in areas with sandier soil exposed to the sun along Bekanon Road. The predated turtle eggshells observed included those with shapes indicative of Snapping Turtle and / or Northern Map Turtle, and Midland Painted Turtle and / or Blanding ¶ Turtle.

Based on correspondence with Sarah Richer, several anecdotal reports of snakes with þlack bellies ¶exhibiting defensive behaviour diagnostic of the harmless Eastern Hog-nose Snake (including playing dead and flattening their neck to appear similar to a cobra) have been reported within the HIWEC study area by several band members, who locally refer to them as þuff Adders ¶No other snake that occurs in Ontario exhibits this behaviour, which eliminates the chance that those band members are confusing the observed specimens with another snake. Biologists did not record this species during 2011 or 2012 surveys.

3.3 2013

3.3.1 Wester n Chorus Frog and Salamander Surveys

Locations of Western Chorus Frog and salamander survey stations were recorded by Stantec and provided to AECOM in an Excel file entitled All survey locations_UTM_MC_07112013.xlsx. These are presented in Appendix A. The UTM co-ordinates of survey stations were mapped by AECOM. Only the Western Chorus Frog and salamander survey stations that fall within the HIWEC study area are discussed in further detail below (refer to Figure 3-2).

Based on the data provided, some of the surveys were conducted on April 22 and 30, 2013 while the remaining surveys were conducted on May 7 and 8, 2013. The majority of amphibian surveys were conducted during the day; while some occurred at night and a small number occurred at an unspecified time. A total of 17 stations (61%) were surveyed during the day, six (6; 21%) were conducted night, and five (5; 18%) occurred at an unspecified time. Table 3-2 provides a summary of which station received day, night or unspecified time surveys.

Salamander egg mass surveys were completed in conjunction with the Western Chorus Frog surveys; however, the results of these surveys were not indicated on the field notes provided by Stantec. On February 26, 2015, Stantec provided confirmation that these surveys were completed.

Table 3-2: Summary of Day and Night 2013 Western Chorus Frog Surveys

Survey Time	Stations	Total
Day	6, 11 to 17, 129 to 137	17
Night	1 to 5, 126	6
Unspecified	7 to 10, 127	5
Total		28

The results of the Western Chorus Frog and salamander surveys are summarized in Table C-1 in Appendix C. This table includes the dates, survey start and end times, weather conditions and results of each survey, wherever recorded, based on the field notes provided (refer to Appendix A).

Based on the data provided, a total of five (5) amphibian species were recorded within the HIWEC study area during these surveys, including American Toad (Anaxyrus americanus), American Bullfrog (Lithobates catesbeianus), Gray Treefrog (Hyla versicolor), Northern Leopard Frog (Lithobates pipiens) and Spring Peeper (Pseudacris crucifer). Two choruses of Spring Peepers were heard calling from stations 126 and 127, respectively. No egg masses were observed.

In addition, one (1) Western Chorus Frog (Pseudacris triseriata), was possibly heard calling from station 127; however, Stantec was not able to confirm this species identification. The Great Lakes / St. Lawrence ±Canadian Shield Population of Western Chorus Frog is listed as Threatened under Schedule 1 of the federal Species at Risk Act. Because this observation was not confirmed, this species has not been included in the tally of amphibians recorded above.

3.3.2 Reptile Habitat and Targeted Surveys

The field notes regarding reptile habitat and targeted surveys for the HIWEC study area as provided by Stantec in the document entitled 60824_Reptile.pdf includes reptile observations made within both the HIWEC study area and along the proposed transmission lines. When a reptile was observed during wandering transect surveys or area searches, the following information was collected: location of observation, species, habitat description and notes. The location of surveys, start and end point of transects, and duration of surveys was not recorded in the field notes in the document entitled 60824_Reptile.pdf. Therefore, the results of these surveys are presented as observations of reptiles within the HIWEC study area and are summarized in Section 3.3.3 below.

Based on the data provided, no field studies targeting snake, lizard or turtle Species at Risk, or nesting and basking surveys, as described in the work plan (Stantec, 2013), were conducted within the HIWEC study area. However, four (4) reptile habitat and targeted surveys conducted by Stantec within their transmission line study area are within the HIWEC study area. Species at Risk recorded through these surveys are summarized in Section 3.3.3 below. Please refer to the Summary of 2013 Herpetological Surveys ±Route A and Route B Transmission Line Study Areas (AECOM, 2015b) for further details regarding survey methods and approach.

3.3.3 Important Herpetofaunal Observations

Locations of important herpetofaunal observations were recorded by Stantec and provided to AECOM in an Excel file entitled Significant Species Observations.xlsx and for those stations formerly on the transmission line which are now with the HIWEC study area in a pdf entitled 60824_Reptile.pdf. UTM co-ordinates for observations recorded in WKH ³5HSWLOHV +HSWHWRORJLFDO 6XUYH\V ´ WDEOH ZHUH SURYLGHG LQ WKH ([FHO ILOH HQWLWOHG Significant Species Observations.xlsx and in 60824_Reptile.pdf for those stations which were located within the HIWEC study area were mapped by AECOM to confirm that these locations fall within the HIWEC study area (Figure 3-3). Only the important herpetofaunal observations that are located within or in the vicinity of the HIWEC study area are discussed in further detail below.

Important herpetofaunal observations were recorded within or in the vicinity of the HIWEC study area between April 22 and September 23, 2013. These observations are presented in Appendix A. The following table (Table 3-3) provides a summary of the important herpetofaunal species observed within the HIWEC study area in 2013. These include four (4) Federal Species at Risk (i.e., species listed as Endangered or Threatened under Schedule 1 of the federal Species at Risk Act): Blanding¶s Turtle, Eastern Foxsnake, Massasauga Rattlesnake and a restricted

species. In addition, two (2) Species of Conservation Concern, Snapping Turtle and Five-lined Skink, were recorded in the HIWEC study area in 2013. The locations where these species were recorded are shown on Figur e 3-3. The locations of the restricted species observations are not being made public due to the threat of poaching experienced by this species.

Table 3-3: 2013 Important Herpetofaunal Observations

Common Nam e	Scientific Name	Number of Individuals Observed	ESA Status [1]	SARA Status [2]	S-Rank [3]
Turtles (2 species)					
Blanding ¶ Turtle	Emydoidea blandingii	82	Threatened	Threatened (Schedule 1)	S4
Snapping Turtle	Chelydra serpentina	20	Special Concern	Special Concern (Schedule 1)	S3
Snakes and Lizards (4 species)					
Eastern Foxsnake	Pantherophis gloydi	1	Threatened	Endangered (Schedule 1)	S2
Five-lined Skink	Plestiodon fasciatus	8	Special Concern	Special Concern (Schedule 1)	S3
Massasauga Rattlesnake	Sistrurus catenatus	26	Threatened	Threatened (Schedule 1)	S3
Milksnake	Lampropeltis triangulum	3	Special Concern	Special Concern (Schedule 1)	S3
Restricted Species (1 species)					

Notes:
1. ESA Status : The Endangered Species Act 2007 (ESA) protects Species at Risk (Threatened and Endangered) at a Provincial Level.
2. SARA Status: The Species at Risk Act (SARA) protects Species at Risk (Special Concern, Threatened and Endangered) at a Federal Level. Species listed under Schedule 1 receive protection under SARA.
3. S-rank: The natural heritage provincial ranking system (provincial S-rank) is used by the MNRF Natural Heritage Information Centre (NHIC) to set protection priorities for rare species and natural communities. Definitions are as follows:
   - S1 Extremely rare in Ontario; usually 5 or fewer occurrences in the province or very few remaining individuals; often especially vulnerable to extirpation.
   - S2 Very rare in Ontario; usually between 5 and 20 occurrences in the province or with many individuals in fewer occurrences; often susceptible to extirpation.
   - S3 Rare to uncommon in Ontario; usually between 20 and 100 occurrences in the province; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances. Most species with an S3 rank are assigned to the watch list, unless they have a relatively high global rank.
   - S4 Common and apparently secure in Ontario; usually with more than 100 occurrences in the province.
   - S5 Very common and demonstrably secure in Ontario.
   - SH Possibly Extirpated (Historical). Species or community occurred historically in the nation or state/province, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20-40 years.
   - S#S# A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community.
   - S#? Rank uncertain.

There were a total of 82 Blanding ¶ Turtle observations at 52 locations within or in the vicinity of the HIWEC study area during the 2013 field season. Of these, 45 locations (UTM co-ordinates) were provided by Stantec (Figure 3 -3). Observations of this species were widespread but most observations were made on the south side of Henvey Inlet.

There were a total of 20 Snapping Turtle observations within the HIWEC study area during the 2013 field season (Figure 3 -3). Observations of this species were distributed across the HIWEC study area.

A single (1) Eastern Foxsnake was observed just outside the HIWEC study area during the 2013 field season (Figure 3 -3). This observation was made on the coast of Georgian Bay and is not located adjacent to any proposed HIWEC infrastructure.

A total of eight (8) Five-lined Skinks were observed within the HIWEC study area during the 2013 field season (Figure 3 -3). Observations of this species were generally south of Henvey Inlet, with the exception of two locations near Highway 69 north of Henvey Inlet.

There were a total of 26 Massasauga Rattlesnake observations within the HIWEC study area during the 2013 field season (Figure 3 -3). Observations of this species were generally distributed across the HIWEC study area, with more observations on the north side of Henvey Inlet compared to the south side.

A total of three (3) Milksnakes were observed within the HIWEC study area during the 2013 field season (Figure 3 -3). Observations of this species were limited to the north side of Henvey Inlet.

4. Summary

LGL conducted the following herpetological surveys in 2011 and 2012 within the HIWEC study area:

- Incidental observations were recorded for reptiles and amphibians encountered during the 2011 and 2012 field seasons. Specific locations of the herpetological surveys were not recorded; therefore, a defined study area for this work cannot be described. Rather, the locations of reptiles observed were recorded.
- A total of 27 herpetofaunal species were recorded within the HIWEC study area in 2011 and 2012, including five (5) federal Species at Risk (Blanding ¶ Turtle, Eastern Musk Turtle, Eastern Foxsnake, Massasauga Rattlesnake and a restricted species) and two (2) species of conservation concern (Snapping Turtle and Five-lined Skink).

Stantec conducted the following herpetological surveys in 2013 within the HIWEC study area:

- Western Chorus Frog and salamander surveys were completed at 28 monitoring stations established in the HIWEC study area in 2013.
- A total of five (5) amphibian species were confirmed within the HIWEC study area. None of these are Species at Risk. However, one (1) Western Chorus Frog was possibly heard, although not confirmed, at monitoring station 127.
- Incidental observations were recorded for herpetofauna encountered during the 2013 field season. Specific locations of the herpetological surveys were not recorded; therefore, a defined study area for this work cannot be described. Rather, the locations of important reptiles observed were recorded.
- Four (4) federal Species at Risk (Blanding ¶ Turtle, Eastern Foxsnake, Massasauga Rattlesnake and a restricted species) and two (2) species of conservation concern (Snapping Turtle and Five-lined Skink) were recorded in the HIWEC study area in 2013.

5. Assumptions and Clarification

The following are assumptions and clarifications made and/or required by AECOM based on the field notes provided by Stantec in October 2014:

- Based on the field notes provided in 60824_Amphibianscall.pdf, it was unclear if amphibian (including salamander) egg mass surveys were completed in the HIWEC study area. On February 26, 2015, Stantec provided AECOM with comments that confirmed that these surveys were undertaken and that no egg masses were observed.
- It was unclear if reptile habitat surveys, targeted surveys for reptile Species at Risk, and turtle nesting and basking surveys were completed in 2013 based on the field notes provided by Stantec in October 2014. On February 26, 2015, Stantec provided AECOM with comments that confirmed that field studies targeting snake, lizard or turtle Species at Risk, or nesting and basking surveys, were not conducted.
- Eastern Newt (Notophthalmus viridescens viridescens) was recorded in the Excel spreadsheet entitled 2011-2012 Herpetiles summary sheet.xlsx. The more commonly accepted common name for this species is Red-spotted Newt therefore it is included in this report as such.

6. References

AECOM, 2015:

Summary of 2011, 2012 and 2013 Breeding Bird Surveys ±Henvey Inlet Wind Energy Centre. Prepared for Henvey Inlet Wind LP. Summary of 2013 Herpetological Surveys ±Route A and Route B Transmission Line Study Areas (AECOM, 2015b)

LGL Limited, 2011a:

Work plan for the Nigig Power Wind Farm Project Background Ecological Studies. Prepared for Genivar on behalf of Nigig Power Corporation, 17 p.

LGL Limited, 2011b:

Henvey Inlet Biological Survey Update July 2011 Interim Draft Report. Prepared for Genivar on behalf of Nigig Power Corporation, 17 p.

Stantec Consulting Ltd., 2013:

2013 Terrestrial Survey Work Program. Prepared for Nigig Power Corp., 25 p.

Appendix A

Field Notes and Documentation

Common Name	Scientific Name	# of Individuals	Observation Identification	Year	Month	Day
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2011	May	1
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2011	May	1
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2011	May	11
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2011	May	18
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2011	May	18
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2011	May	18
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2011	May	18
Blanding's Turtle	Emydoidea blandingii	1	no picture; unmistakeable domed shell & yellow neck	2011	July	13
Blanding's Turtle	Emydoidea blandingii	2	Picture taken	2012	April	13
Blanding's Turtle	Emydoidea blandingii	2	Picture taken	2012	April	13
Blanding's Turtle	Emydoidea blandingii	2	Picture taken	2012	April	18
Blanding's Turtle	Emydoidea blandingii	2	Picture taken	2012	April	18
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	April	25
Blanding's Turtle	Emydoidea blandingii	2	Picture taken	2012	April	25
Blanding's Turtle	Emydoidea blandingii	2	Picture taken	2012	April	25
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	April	25
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	June	8
Blanding's Turtle	Emydoidea blandingii	2	Picture taken	2012	June	13
Blanding's Turtle	Emydoidea blandingii	2	moved before pic could be taken; distinctive domed shell, long yellow neck	2012	June	13
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	May	2
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	May	2
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	May	2
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	16	Picture taken	2012	May	4
Blanding's Turtle	Emydoidea blandingii	2	Picture taken	2012	May	10
Blanding's Turtle	Emydoidea blandingii	2	no picture; unmistakeable domed shell & yellow neck	2012	May	10
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	May	11
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	14
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	14
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	14
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	14
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	14
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	14
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	14
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	14
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	May	14
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	15
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	15
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	15

Common Name	Scientific Name	# of Individuals	Observation Identification	Year	Month	Day
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	15
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	15
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	15
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	15
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	15
Blanding's Turtle	Emydoidea blandingii	9	Picture taken	2012	May	15
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	May	17
Blanding's Turtle	Emydoidea blandingii	6	Picture taken	2012	May	17
Blanding's Turtle	Emydoidea blandingii	6	Picture taken	2012	May	17
Blanding's Turtle	Emydoidea blandingii	6	Picture taken	2012	May	17
Blanding's Turtle	Emydoidea blandingii	6	Picture taken	2012	May	17
Blanding's Turtle	Emydoidea blandingii	6	Picture taken	2012	May	17
Blanding's Turtle	Emydoidea blandingii	6	Picture taken	2012	May	17
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	May	23
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	May	29
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	May	29
Blanding's Turtle	Emydoidea blandingii	1	Picture taken	2012	May	30
Eastern Foxsnake	Pantherophis gloydi		Picture taken	2011	June	24
Massasauga	Sistrurus catenatus	1	Took video, no pic; heavy body, rattle audible	2011	July	12
Massasauga	Sistrurus catenatus	1	Picture taken	2011	July	14
Massasauga	Sistrurus catenatus	2	distinctive heavy body shape, rattle present and audible	2011	June	7
Massasauga	Sistrurus catenatus	2	distinctive heavy body shape, rattle present and audible	2011	June	7
Massasauga	Sistrurus catenatus	1	Picture taken	2011	June	13
Massasauga	Sistrurus catenatus	1	Picture taken	2011	June	24
Massasauga	Sistrurus catenatus	1	Picture taken	2011	May	25
Massasauga	Sistrurus catenatus	1	Picture taken	2011	May	30
Massasauga	Sistrurus catenatus	1	moved too quickly to take pic; distinctive heavy body shape, rattle present and audible	2011	October	4
Massasauga	Sistrurus catenatus	1	Picture taken	2011	September	12
Massasauga	Sistrurus catenatus	1	Picture taken	2011	September	13
Massasauga	Sistrurus catenatus	1	Picture taken	2011	September	13
Massasauga	Sistrurus catenatus	1	Picture taken	2011	September	26
Massasauga	Sistrurus catenatus	1	Picture taken	2011	September	26
Massasauga	Sistrurus catenatus	1	Picture taken	2012	June	1
Massasauga	Sistrurus catenatus	1	Picture taken	2012	June	5
Massasauga	Sistrurus catenatus	1	Picture taken	2012	June	5
Massasauga	Sistrurus catenatus	1	Picture taken	2012	June	21
Massasauga	Sistrurus catenatus	1	distinctive heavy body shape, rattle present and audible	2012	June	28
Massasauga	Sistrurus catenatus	1	Picture taken	2012	May	18
Five-lined Skink	Plestiodon fasciatus	1	blue on its tail was distinctive	2012	June	20
Five-lined Skink	Plestiodon fasciatus	2	Picture taken	2011	May	25
Five-lined Skink	Plestiodon fasciatus	2	Picture taken	2011	May	25
Five-lined Skink	Plestiodon fasciatus	1	Scurried away too quickly for photo but got good look, was lizard, pale stripes on bluish-grey body	2011	July	1
Snapping Turtle	Chelydra serpentina	1	See picture	2012	May	4
Snapping Turtle	Chelydra serpentina	1	Picture taken	2011	May	30
Snapping Turtle	Chelydra serpentina	1	Picture taken	2012	May	11
Snapping Turtle	Chelydra serpentina	1	Picture taken	2012	May	11
Snapping Turtle	Chelydra serpentina	1	No picture; large heavy body & long tail	2012	May	17
Snapping Turtle	Chelydra serpentina	1	No picture; huge, unmistakable, on rock in Henvey Inlet	2012	June	9
Restricted Species	-	1	Picture taken	2011	June	23
Restricted Species	-	1	Picture taken	2012	April	12
Restricted Species	-	1	Picture taken	2012	June	6

Common Name	Scientific Name	# of Individuals	Observation Identification	Year	Month	Day
Restricted Species	-	1	Picture taken	2012	June	7
Restricted Species	-	2	Picture taken	2012	June	13
Restricted Species	-	2	Picture taken	2012	June	13
Restricted Species	-	1	Picture taken	2012	May	15
Restricted Species	-	7	Picture taken	2012	May	30
Restricted Species	-	7	Picture taken	2012	May	30
Restricted Species	-	7	Picture taken	2012	May	30
Restricted Species	-	7	Picture taken	2012	May	30
Restricted Species	-	7	Picture taken	2012	May	30
Restricted Species	-	7	Picture taken	2012	May	30
Restricted Species	-	7	Picture taken	2012	May	30
Midland Painted Turtle	Chrysemys picta marginata	2	Picture taken	2012	May	20
Midland Painted Turtle	Chrysemys picta marginata	1	no picture taken	2012	June	10
Midland Painted Turtle	Chrysemys picta marginata	1	Picture taken	2012	May	31
Midland Painted Turtle	Chrysemys picta marginata	1	Picture taken	2012	April	30
Midland Painted Turtle	Chrysemys picta marginata	1	no picture taken	2011	June	10
Smooth Greensnake	Opheodrys vernalis	1	Picture taken	2011	May	25
Smooth Greensnake	Opheodrys vernalis	1	Picture taken	2012	June	20
Smooth Greensnake	Opheodrys vernalis	1	No picture; small, entirely green; too quick for pic	2012	June	28
Smooth Greensnake	Opheodrys vernalis	1	Picture taken	2012	May	4
Smooth Greensnake	Opheodrys vernalis	1	Picture taken	2012	May	15
Smooth Greensnake	Opheodrys vernalis	1	Picture taken	2011	June	10
Ring-necked Snake	Diadophis punctatus	1	Picture taken	2011	July	1
Ring-necked Snake	Diadophis punctatus	1	Picture taken	2011	May	25
Red-bellied Snake	Storeria occipitomaculata	1	Picture taken	2011	June	20
Red-bellied Snake	Storeria occipitomaculata	1	Picture taken	2012	May	16
Red-bellied Snake	Storeria occipitomaculata	1	Picture taken	2012	May	7
Dekay's Brownsnake	Storeria dekayi	1	no picture taken	2011	June	5
Northern Watersnake	Nerodia sipedon sipedon	1	Picture taken	2012	May	24
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	Picture taken	2012	May	14
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	Picture taken	2012	June	11
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	Picture taken	2011	October	18
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	Picture taken	2011	May	23
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	Picture taken	2012	June	14
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	no picture taken	2012	June	29
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	no picture taken	2012	June	10
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	Picture taken	2011	May	9
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	Picture taken	2011	June	10
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	Picture taken	2012	May	30
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	Picture taken	2012	June	26
Eastern Gartersnake	Thamnophis sirtalis sirtalis	1	Picture taken	2012	June	5
Eastern Red-backed Salamander	Plethodon cinereus	1	Picture taken	2012	May	14
Blue-spotted Salamander	Ambystoma laterale	1	Picture taken	2011	October	6
Eastern Newt	Notophthalmus viridescens viridescens	1	moved before pic could be taken	2012	May	4

*not all observations of the more common species were recorded, including those of Midland Painted Turtle and Eastern Gartersnake, and Mole Salamander sp (Ambystoma sp.) egg sacs
**no frog species were included on this sheet as they were too numerous; however, the following species were observed within the Henvey Inlet 2 lands:
American Toad, Green Frog, Northern Leopard Frog, American Bullfrog, Mink Frog, Wood Frog, Spring Peeper, and Gray Treefrog; anecdotal reports of Spotted Salamander were noted

Common Name	Scientific Name	Observers	Datum	UTM Zone	Easting	Northing	Road Observation
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	523801	5077144	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	532490	5078456	Alive
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	529169	5077932	Alive
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	524696	5075727	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	529512	5078223	Alive
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	529473	5078406	Alive
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	530509	5078763	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527088	5080248	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	525406	5075782	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	525406	5075782	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527560	5080093	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527560	5080093	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	522718	5081373	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	524165	5081219	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	524165	5081219	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	525549	5081158	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	526574	5072981	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	524634	5079190	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	524634	5079190	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	525192	5075832	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	525203	5075796	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	524586	5075477	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528312	5077541	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528312	5077542	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528312	5077542	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528367	5077399	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528089	5077568	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528147	5077599	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528105	5077602	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528062	5077398	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528062	5077398	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528072	5077393	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528159	5077279	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528038	5077360	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	527948	5077383	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	527998	5077481	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528001	5077491	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	528041	5077548	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	526275	5074863	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	526304	5074898	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	525609	5077099	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	531020	5077543	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	531011	5077572	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	531099	5077435	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	531067	5077431	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	531053	5077456	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	531032	5077454	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	531054	5077433	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	531087	5077422	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	531065	5077453	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	529526	5078152	Alive
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527446	5080199	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527446	5080199	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527418	5080221	

Common Name	Scientific Name	Observers	Datum	UTM Zone	Easting	Northing	Road Observation
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527418	5080221	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527319	5080230	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527319	5080230	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527250	5080181	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527243	5080130	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527307	5080193	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer & Andrew Davis	NAD83	17	522148	5079720	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527838	5077069	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527838	5077069	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	528250	5076574	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	528059	5076947	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	527968	5077026	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	528075	5077062	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	524844	5080371	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	532071	5078883	Alive
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	529706	5076349	
Blanding's Turtle	Emydoidea blandingii	Sarah Richer	NAD83	17	526932	5076510	
Eastern Foxsnake	Pantherophis gloydi	Sarah Richer	NAD83	17	524197	5081345	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	523370	5078186	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	526466	5078172	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	525261	5074177	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	525261	5074177	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	526650	5073042	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	524078	5081353	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	530332	5078808	
Massasauga	Sistrurus catenatus	Sarah Richer & Andrew Davis	NAD83	17	523457	5078218	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	531319	5078842	Alive
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	525405	5077548	Alive
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	527137	5075632	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	527075	5075691	
Massasauga	Sistrurus catenatus	Sarah Richer & Andrew Davis	NAD83	17	531753	5078970	Dead
Massasauga	Sistrurus catenatus	Sarah Richer & Andrew Davis	NAD83	17	528483	5078342	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	524241	5081228	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	523140	5075175	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	522531	5074611	
Massasauga	Sistrurus catenatus	Sarah Richer	NAD83	17	528940	5080735	Dead
Massasauga	Sistrurus catenatus	Sarah Richer & Andrew Davis	NAD83	17	528940	5080735	
Massasauga	Sistrurus catenatus	Sarah Richer & Andrew Davis	NAD83	17	524629	5077064	
Five-lined Skink	Plestiodon fasciatus	Sarah Richer	NAD83	17	527035	5075848	
Five-lined Skink	Plestiodon fasciatus	Sarah Richer	NAD83	17	529730	5077876	
Five-lined Skink	Plestiodon fasciatus	Sarah Richer	NAD83	17	529730	5077876	
Five-lined Skink	Plestiodon fasciatus	Sarah Richer	NAD83	17	522523	5074506	
Snapping Turtle	Chelydra serpentina	Sarah Richer & Andrew Davis	NAD83	17	527934	5077451	
Snapping Turtle	Chelydra serpentina	Sarah Richer & Andrew Davis	NAD83	17	533636	5077567	
Snapping Turtle	Chelydra serpentina	Sarah Richer & Andrew Davis	NAD83	17	528184	5077220	
Snapping Turtle	Chelydra serpentina	Sarah Richer & Andrew Davis	NAD83	17	528116	5077095	
Snapping Turtle	Chelydra serpentina	Sarah Richer	NAD83	17	522213	5079620	
Snapping Turtle	Chelydra serpentina	Sarah Richer	NAD83	17	523325	5076425	
Restricted Species	-	Sarah Richer & Andrew Davis	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer & Andrew Davis	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made			

Common Name	Scientific Name	Observers	Datum	UTM Zone	Easting	Northing	Road Observation
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer & Andrew Davis	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made			
Restricted Species	-	Sarah Richer	NAD83	Exact location will not be made public due to threat of			
Midland Painted Turtle	Chrysemys picta marginata	Sarah Richer & Andrew Davis	NAD83	17	527546	5080311	
Midland Painted Turtle	Chrysemys picta marginata	Sarah Richer	NAD83	17	533753	5077631	Dead
Midland Painted Turtle	Chrysemys picta marginata	Sarah Richer	NAD83	17	529560	5078029	Alive
Midland Painted Turtle	Chrysemys picta marginata	Sarah Richer	NAD83	17	530605	5078765	Alive, injured;
Midland Painted Turtle	Chrysemys picta marginata	Sarah Richer	NAD83	17	532279	5078696	Dead
Smooth Greensnake	Opheodrys vernalis	Sarah Richer	NAD83	17	529740	5077876	
Smooth Greensnake	Opheodrys vernalis	Sarah Richer	NAD83	17	527180	5075279	
Smooth Greensnake	Opheodrys vernalis	Sarah Richer	NAD83	17	531292	5078829	
Smooth Greensnake	Opheodrys vernalis	Sarah Richer	NAD83	17	528302	5077445	
Smooth Greensnake	Opheodrys vernalis	Sarah Richer	NAD83	17	529448	5078034	Alive
Smooth Greensnake	Opheodrys vernalis	Sarah Richer & Andrew Davis	NAD83	17	528483	5078342	Dead
Ring-necked Snake	Diadophis punctatus	Sarah Richer	NAD83	17	522523	5074510	
Ring-necked Snake	Diadophis punctatus	Sarah Richer	NAD83	17	529937	5078404	
Red-bellied Snake	Storeria occipitomaculata	Sarah Richer & Andrew Davis	NAD83	17	531931	5078941	
Red-bellied Snake	Storeria occipitomaculata	Sarah Richer	NAD83	17	523365	5077759	
Red-bellied Snake	Storeria occipitomaculata	Sarah Richer	NAD83	17	531931	5078941	Dead
Dekay's Brownsnake	Storeria dekayi	Sarah Richer	NAD83	17	528545	5078282	Dead
Northern Watersnake	Nerodia sipedon sipedon	Sarah Richer & Andrew Davis	NAD83	17	526870	5079268	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer	NAD83	17	523073	5074979	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer	NAD83	17	525319	5074227	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer	NAD83	17	531940	5078939	Alive
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer	NAD83	17	533413	5077458	Dead
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer	NAD83	17	531874	5079025	Dead
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer	NAD83	17	532297	5078663	Dead
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer	NAD83	17	529480	5078338	Dead
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer					
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer					
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer					
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer					
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Sarah Richer					
Eastern Red-backed Salamander	Plethodon cinereus	Sarah Richer & Andrew Davis	NAD83	17	531599	5077870	
Blue-spotted Salamander	Ambystoma laterale	Sarah Richer & Andrew Davis	NAD83	17	532224	5078632	
Eastern Newt	Notophthalmus viridescens viridescens	Sarah Richer & Andrew Davis	NAD83	17	528264	5077467	

*not all observations of the more common species were recorded, including those of Midland Painted Tu
**no frog species were included on this sheet as they were too numerous; however, the following species
American Toad, Green Frog, Northern Leopard Frog, American Bullfrog, Mink Frog, Wood Frog, Spring F

Common Name	Scientific Name	Characteristics/notes
Blanding's Turtle	Emydoidea blandingii	adult male; displayed his penis
Blanding's Turtle	Emydoidea blandingii	adult male
Blanding's Turtle	Emydoidea blandingii	adult male
Blanding's Turtle	Emydoidea blandingii	adult female, missing front left foot, healed stump
Blanding's Turtle	Emydoidea blandingii	adult female
Blanding's Turtle	Emydoidea blandingii	adult female
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	potentially juvenile; smaller size than adult adjacent to it
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult female
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult male
Blanding's Turtle	Emydoidea blandingii	adult female
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult

Common Name	Scientific Name	Characteristics/notes
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult female
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Eastern Foxsnake	Pantherophis gloydi	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	possibly juvenile, small
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	smallish, maybe, juvenile?
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	very small, juvenile?
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Five-lined Skink	Plestiodon fasciatus	juvenile; bright blue colour on tail
Five-lined Skink	Plestiodon fasciatus	adult male
Five-lined Skink	Plestiodon fasciatus	adult female
Five-lined Skink	Plestiodon fasciatus	adult, unknown sex
Snapping Turtle	Chelydra serpentina	adult
Snapping Turtle	Chelydra serpentina	yearling; tiny
Snapping Turtle	Chelydra serpentina	adult
Snapping Turtle	Chelydra serpentina	adult
Snapping Turtle	Chelydra serpentina	adult
Snapping Turtle	Chelydra serpentina	adult
Restricted Species	-	adult female
Restricted Species	-	adult, likely female
Restricted Species	-	adult

Common Name	Scientific Name	Characteristics/notes
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult male
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Midland Painted Turtle	Chrysemys picta marginata	all sizes found throughout site, too many to report
Midland Painted Turtle	Chrysemys picta marginata	
Midland Painted Turtle	Chrysemys picta marginata	
Midland Painted Turtle	Chrysemys picta marginata	missing front right foot
Midland Painted Turtle	Chrysemys picta marginata	
Smooth Greensnake	Opheodrys vernalis	
Smooth Greensnake	Opheodrys vernalis	
Smooth Greensnake	Opheodrys vernalis	
Smooth Greensnake	Opheodrys vernalis	
Smooth Greensnake	Opheodrys vernalis	small, even for a green snake; last year's juvenile?
Smooth Greensnake	Opheodrys vernalis	discovered under our parked truck, with its body burned
Ring-necked Snake	Diadophis punctatus	
Ring-necked Snake	Diadophis punctatus	
Red-bellied Snake	Storeria occipitomaculata	quite fat along the length of its body; pregnant?
Red-bellied Snake	Storeria occipitomaculata	small, even for a redbelly; last year's juvenile?
Red-bellied Snake	Storeria occipitomaculata	
Dekay's Brownsnake	Storeria dekayi	smaller though not baby; last year's hatch?
Northern Watersnake	Nerodia sipedon sipedon	adult
Eastern Gartersnake	Thamnophis sirtalis sirtalis	adult
Eastern Gartersnake	Thamnophis sirtalis sirtalis	Adult; the stripe along the top of its body was more white than yellow, not used to seeing that, was quite pretty
Eastern Gartersnake	Thamnophis sirtalis sirtalis	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	headless; weasel kill?
Eastern Gartersnake	Thamnophis sirtalis sirtalis	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	
Eastern Gartersnake	Thamnophis sirtalis sirtalis	
Eastern Red-backed Salamander	Plethodon cinereus	red-backed phase
Blue-spotted Salamander	Ambystoma laterale	Quite small; maybe this year's morph?
Eastern Newt	Notophthalmus viridescens viridescens	Adult, in water at beaver dam

*not all observations of the more common species were recorded, including those of Midland Painted Tu
**no frog species were included on this sheet as they were too numerous; however, the following species
American Toad, Green Frog, Northern Leopard Frog, American Bullfrog, Mink Frog, Wood Frog, Spring F

Common Name	Scientific Name	Year	Month	Day	Observers	Datum	UTM Zone	Road Observation?
Blanding's Turtle	Emydoidea blandingii	2011	5	1	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2011	5	1	Sarah Richer	NAD83	17T	Alive
Blanding's Turtle	Emydoidea blandingii	2011	5	11	Sarah Richer	NAD83	17T	Alive
Blanding's Turtle	Emydoidea blandingii	2011	5	18	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2011	5	18	Sarah Richer	NAD83	17T	Alive
Blanding's Turtle	Emydoidea blandingii	2011	5	18	Sarah Richer	NAD83	17T	Alive
Blanding's Turtle	Emydoidea blandingii	2011	5	18	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2011	7	13	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	4	13	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	4	13	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	4	18	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	4	18	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	4	25	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	4	25	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	4	25	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	4	25	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	2	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	2	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	2	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	10	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	10	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	11	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	14	Sarah Richer	NAD83	17T	Alive
Blanding's Turtle	Emydoidea blandingii	2012	5	15	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	15	Sarah Richer	NAD83	17T	

Common Name	Scientific Name	Year	Month	Day	Observers	Datum	UTM Zone	Road Observation?
Blanding's Turtle	Emydoidea blandingii	2012	5	15	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	15	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	15	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	15	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	15	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	15	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	15	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	17	Sarah Richer & Andrew Davis	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	17	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	17	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	17	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	17	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	17	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	17	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	23	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	29	Sarah Richer	NAD83	17T	Alive
Blanding's Turtle	Emydoidea blandingii	2012	5	29	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	5	30	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	6	8	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	6	8	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	6	13	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	6	13	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	6	15	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	2012	7	1	Sarah Richer & Joe Herbert	NAD83	17T	Alive, nesting
Eastern Foxsnake	Pantherophis gloydi	2011	6	24	Sarah Richer	NAD83	17T	
Eastern Musk Turtle	Sternotherus odoratus	2011	6	15	LGL biologist Geoff Hughes	NAD83	17T	
Five-lined Skink	Plestiodon fasciatus	2011	5	25	Sarah Richer	NAD83	17T	
Five-lined Skink	Plestiodon fasciatus	2011	5	25	Sarah Richer	NAD83	17T	
Five-lined Skink	Plestiodon fasciatus	2011	7	1	Sarah Richer	NAD83	17T	
Five-lined Skink	Plestiodon fasciatus	2012	6	20	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	5	25	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	5	30	Sarah Richer & Andrew Davis	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	6	7	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	6	7	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	6	13	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	6	13	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	6	21	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	6	24	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	7	12	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	7	12	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	7	13	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	7	14	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	9	12	Sarah Richer	NAD83	17T	Alive
Massasauga	Sistrurus catenatus	2011	9	13	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	9	13	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	9	26	Sarah Richer & Andrew Davis	NAD83	17T	Dead
Massasauga	Sistrurus catenatus	2011	9	26	Sarah Richer & Andrew Davis	NAD83	17T	
Massasauga	Sistrurus catenatus	2011	10	4	Sarah Richer	NAD83	17T	Alive
Massasauga	Sistrurus catenatus	2011	10	25	Sarah Richer	NAD83	17T	

Common Name	Scientific Name	Year	Month	Day	Observers	Datum	UTM Zone	Road Observation?
Massasauga	Sistrurus catenatus	2012	5	18	Sarah Richer & Andrew Davis	NAD83	17T	
Massasauga	Sistrurus catenatus	2012	6	1	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2012	6	5	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2012	6	5	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	2012	6	21	Sarah Richer	NAD83	17T	Dead
Massasauga	Sistrurus catenatus	2012	6	28	Sarah Richer & Andrew Davis	NAD83	17T	
Snapping Turtle	Chelydra serpentina	2011	5	30	Sarah Richer & Andrew Davis	NAD83	17T	
Snapping Turtle	Chelydra serpentina	2012	5	4	Sarah Richer & Andrew Davis	NAD83	17T	
Snapping Turtle	Chelydra serpentina	2012	5	11	Sarah Richer & Andrew Davis	NAD83	17T	
Snapping Turtle	Chelydra serpentina	2012	5	11	Sarah Richer & Andrew Davis	NAD83	17T	
Snapping Turtle	Chelydra serpentina	2012	5	17	Sarah Richer	NAD83	17T	
Snapping Turtle	Chelydra serpentina	2012	6	9	Sarah Richer	NAD83	17T	
Restricted Species	-	2011	6	23	Sarah Richer & Andrew Davis	NAD83	-	
Restricted Species	-	2012	4	12	Sarah Richer & Andrew Davis	NAD83	-	
Restricted Species	-	2012	5	15	Sarah Richer & Andrew Davis	NAD83	-	
Restricted Species	-	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	2012	6	6	Sarah Richer	NAD83	-	
Restricted Species	-	2012	6	7	Sarah Richer	NAD83	-	
Restricted Species	-	2012	6	13	Sarah Richer	NAD83	-	
Restricted Species	-	2012	6	13	Sarah Richer	NAD83	-	
Turtle Nesting Area		2012	6	2	Sarah Richer	NAD83	17T	
Turtle Nesting Area		2012	6	2	Sarah Richer	NAD83	17T	
Turtle Nesting Area		2012	6	10	Sarah Richer	NAD83	17T	
Turtle Nesting Area		2012	6	10	Sarah Richer	NAD83	17T	
Turtle Nesting Area		2012	6	14	Sarah Richer	NAD83	17T	
Turtle Nesting Area		2012	6	15	Sarah Richer	NAD83	17T	

Common Name	Scientific Name	Characteristics/notes
Blanding's Turtle	Emydoidea blandingii	adult male; displayed his penis
Blanding's Turtle	Emydoidea blandingii	adult male
Blanding's Turtle	Emydoidea blandingii	adult male
Blanding's Turtle	Emydoidea blandingii	adult female, missing front left foot, healed stump
Blanding's Turtle	Emydoidea blandingii	adult female
Blanding's Turtle	Emydoidea blandingii	adult female
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	much smaller size than adult adjacent to it, approx 1/2 length
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult male
Blanding's Turtle	Emydoidea blandingii	adult female
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult female, missing piece of her front right corner of plastron
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult

Common Name	Scientific Name	Characteristics/notes
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult female
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult female
Blanding's Turtle	Emydoidea blandingii	adult; remains, empty shell, disintegrated; still identifiable to
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult
Blanding's Turtle	Emydoidea blandingii	adult; remains, empty shell, disintegrated
Blanding's Turtle	Emydoidea blandingii	adult female
Eastern Foxsnake	Pantherophis gloydi	adult
Eastern Musk Turtle	Sternotherus odoratus	Empty shell, both carapace and plastron; location is approximate, to within 100 m; along south shoreline of Key River
Five-lined Skink	Plestiodon fasciatus	adult male
Five-lined Skink	Plestiodon fasciatus	adult female
Five-lined Skink	Plestiodon fasciatus	adult, unknown sex
Five-lined Skink	Plestiodon fasciatus	juvenile; bright blue colour on tail
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	Shed skin
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	Shed skin
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	Shed skin
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	very small; possibly juvenile or yearling
Massasauga	Sistrurus catenatus	very small; possibly juvenile or yearling
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	very small; possibly juvenile or yearling
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	very small; possibly juvenile or yearling
Massasauga	Sistrurus catenatus	Shed skin

Common Name	Scientific Name	Characteristics/notes
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Massasauga	Sistrurus catenatus	adult
Snapping Turtle	Chelydra serpentina	very small, likely yearling
Snapping Turtle	Chelydra serpentina	adult
Snapping Turtle	Chelydra serpentina	adult
Snapping Turtle	Chelydra serpentina	adult
Snapping Turtle	Chelydra serpentina	adult
Snapping Turtle	Chelydra serpentina	adult
Restricted Species	-	adult female
Restricted Species	-	adult, likely female
Restricted Species	-	adult male
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Restricted Species	-	adult
Turtle Nesting Area		Snapping turtle or Map Turtle eggs
Turtle Nesting Area		Snapping turtle or Map Turtle eggs
Turtle Nesting Area		predated eggs of Snapping turtle &/or Map turtle, & Painted &/or % O D Q G L Q J ¶ V 7 X U W O H R E V H U Y H G
Turtle Nesting Area		predated Snapping turtle and/or Map turtle eggs observed
Turtle Nesting Area		predated Snapping Turtle nest
Turtle Nesting Area		Snapping Turtle and Painted or Blanding's Turtle

Table C-1: LGL Summary of Significant Reptile Observations (LGL, 2011-2012)

Common Name	Scientific Name	ESA Status	SARA Status	S-Rank	Year	Month	Day	Observers	Datum	UTM Zone	Road Observation?
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2011	5	1	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2011	5	1	Sarah Richer	NAD83	17T	Alive
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2011	5	11	Sarah Richer	NAD83	17T	Alive
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2011	5	18	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2011	5	18	Sarah Richer	NAD83	17T	Alive
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2011	5	18	Sarah Richer	NAD83	17T	Alive
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2011	5	18	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2011	7	13	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	4	13	Sarah Richer & Andrew Da	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	4	13	Sarah Richer & Andrew Da	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	4	18	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	4	18	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	4	25	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	4	25	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	4	25	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	4	25	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	5	2	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	5	2	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	5	2	Sarah Richer & Andrew Da	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	5	4

Table C-1: LGL Summary of Significant Reptile Observations (LGL, 2011-2012)

Common Name	Scientific Name	ESA Status	SARA Status	S-Rank	Year	Month	Day	Observers	Datum	UTM Zone	Road Observation?
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	5	29	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	5	30	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	6	8	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	6	8	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	6	13	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	6	13	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	6	15	Sarah Richer	NAD83	17T	
Blanding's Turtle	Emydoidea blandingii	THR	THR (Schedule 1)	S4	2012	7	1	Sarah Richer & Joe Herbe	NAD83	17T	Alive, nesting
Eastern Foxsnake	Pantherophis gloydi	THR	Endangered (Schedule 1)	S2	2011	6	24	Sarah Richer	NAD83	17T	
Eastern Musk Turtle	Sternotherus odoratus	SC	THR (Schedule 1)	S3	2011	6	15	LGL biologist Geoff Hughe	NAD83	17T	
Five-lined Skink	Plestiodon fasciatus	SC	Special Concern (Schedul	S3	2011	5	25	Sarah Richer	NAD83	17T	
Five-lined Skink	Plestiodon fasciatus	SC	Special Concern (Schedul	S3	2011	5	25	Sarah Richer	NAD83	17T	
Five-lined Skink	Plestiodon fasciatus	SC	Special Concern (Schedul	S3	2011	7	1	Sarah Richer	NAD83	17T	
Five-lined Skink	Plestiodon fasciatus	SC	Special Concern (Schedul	S3	2012	6	20	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	5	25	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	5	30	Sarah Richer & Andrew Da	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	6	7	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	6	7	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	6	13	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	6	13	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	6	21	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	6	24	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	7	12	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	7	12	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	7	13	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	7	14	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	9	12	Sarah Richer	NAD83	17T	Alive
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	9	13	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	9	13	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	9	26	Sarah Richer & Andrew Da	NAD83	17T	Dead
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	9	26	Sarah Richer & Andrew Da	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	10	4	Sarah Richer	NAD83	17T	Alive
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2011	10	25	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2012	5	18	Sarah Richer & Andrew Da	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2012	6	1	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2012	6	5	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2012	6	5	Sarah Richer	NAD83	17T	
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2012	6	21	Sarah Richer	NAD83	17T	Dead
Massasauga	Sistrurus catenatus	THR	THR (Schedule 1)	S3	2012	6	28	Sarah Richer & Andrew Da	NAD83	17T	
Snapping Turtle	Chelydra serpentina	SC	Special Concern (Schedul	S3	2011	5	30	Sarah Richer & Andrew Da	NAD83	17T	
Snapping Turtle	Chelydra serpentina	SC	Special Concern (Schedul	S3	2012	5	4	Sarah Richer & Andrew Da	NAD83	17T	
Snapping Turtle	Chelydra serpentina	SC	Special Concern (Schedul	S3	2012	5	11	Sarah Richer & Andrew Da	NAD83	17T	
Snapping Turtle	Chelydra serpentina	SC	Special Concern (Schedul	S3	2012	5	11	Sarah Richer & Andrew Da	NAD83	17T	
Snapping Turtle	Chelydra serpentina	SC	Special Concern (Schedul	S3	2012	5	17	Sarah Richer	NAD83	17T	
Snapping Turtle	Chelydra serpentina	SC	Special Concern (Schedul	S3	2012	6	9	Sarah Richer	NAD83	17T	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2011	6	23	Sarah Richer & Andrew Da	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	4	12	Sarah Richer & Andrew Da	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	5	15	Sarah Richer & Andrew Da	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	5	30	Sarah Richer	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	6	6	Sarah Richer	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	6	7	Sarah Richer	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	6	13	Sarah Richer	NAD83	-	
Restricted Species	-	END	Endangered (Schedule 1)	S3	2012	6	13	Sarah Richer	NAD83	-	
Turtle Nest	-	-	-	-	2012	6	2	Sarah Richer	NAD83	17T	
Turtle Nest	-	-	-	-	2012	6	2	Sarah Richer	NAD83	17T	
Turtle Nest	-	-	-	-	2012	6	10	Sarah Richer	NAD83	17T	
Turtle Nest	-	-	-	-	2012	6	10	Sarah Richer	NAD83	17T	

Table C-1: LGL Summary of Significant Reptile Observations (LGL, 2011-2012)

Common Name	Scientific Name	ESA Status	SARA Status	S-Rank	Year	Month	Day	Observers	Datum	UTM Zone	Road Observation?
Turtle Nest	-	-	-	-	2012	6	14	Sarah Richer	NAD83	17T	
Turtle Nest	-	-	-	-	2012	6	15	Sarah Richer	NAD83	17T	

Notes:

Some reptile observations could not be identified to species because of the condition of the specimen or evidence of the specimen found (i.e., hatched and/or predated e
ESA Status : The Endangered Species Act 2007 (ESA) protects Species at Risk (Threatened and Endangered) at a Provincial Level.
SARA Status: The Species at Risk Act (SARA) protects Species at Risk (Special Concern, Threatened and Endangered) at a Federal Level. Species listed under Schec
S-rank: The Natural Heritage provincial ranking system (provincial S-rank) is used by the MNRF Natural Heritage Information Centre (NHIC) to set protection priorities fo

Extremely rare in Ontario; usually 5 or fewer occurrences in the province or very few remaining individuals; often especially vulnerable to extirpation.
Very rare in Ontario; usually between 5 and 20 occurrences in the province or with many individuals in fewer occurrences; often susceptible to extirpation.
Rare to uncommon in Ontario; usually between 20 and 100 occurrences in the province; may have fewer occurrences, but with a large number of individuals in some
Common and apparently secure in Ontario; usually with more than 100 occurrences in the province.
Very common and demonstrably secure in Ontario.
Possibly Extirpated (Historical) - Species or community occurred historically in the nation or state/province, and there is some possibility that it may be rediscovered
S#S# A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community.

Rank uncertain.

Table C-1: LGL Summary of Significant Reptile Observations (LGL, 2011-2012)

Characteristics/notes
adult male; displayed his penis
adult male
adult male
adult female, missing front left foot, healed stump
adult female
adult female
adult
adult
adult
much smaller size than adult adjacent to it, approx 1/2 length
adult
adult
adult
adult
adult
adult
adult male
adult female
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult female, missing piece of her front right corner of plastron
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult female

Table C-1: LGL Summary of Significant Reptile Observations (LGL, 2011-2012)

Characteristics/notes
adult
adult
adult female
adult; remains, empty shell, disintegrated; still identifiable to species
adult
adult
adult; remains, empty shell, disintegrated
adult female
adult
Empty shell, both carapace and plastron; location is approximate, to within 100 m;
adult male
adult female
adult, unknown sex
juvenile; bright blue colour on tail
adult
adult
adult
adult
Shed skin
adult
Shed skin
adult
Shed skin
adult
very small; possibly juvenile or yearling
very small; possibly juvenile or yearling
adult
adult
adult
very small; possibly juvenile or yearling
adult
very small; possibly juvenile or yearling
Shed skin
adult
adult
adult
adult
adult
adult
very small, likely yearling
adult
adult
adult
adult
adult
adult female
adult, likely female
adult male
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
adult
Snapping turtle or Map Turtle eggs
Snapping turtle or Map Turtle eggs
predated eggs of Snapping turtle &/or 0 D S W X U W O H 3 D L Q W H C
predated Snapping turtle and/or Map turtle eggs observed

Table C-1: LGL Summary of Significant Reptile Observations (LGL, 2011-2012)

Characteristics/notes
predated Snapping Turtle nest
Snapping Turtle and Painted or Blanding's Turtle

gg shells).

dule 1 receive protection under SARA.
r rare species and natural communities. De

e populations; may be susceptible to large-s

Its presence may not have been verified in

Startec

160960 24

Ap , 203

Vigig

B. Holden . Miller

	P	W	C		P
		[redacted] 34 with	one log	A N	Heavy KAI

undown m

08 320

17+07 8 5025 8

205 101 Road

Road + Shallow water Marsh

Yes

Hen

M circle

Road

18

g)

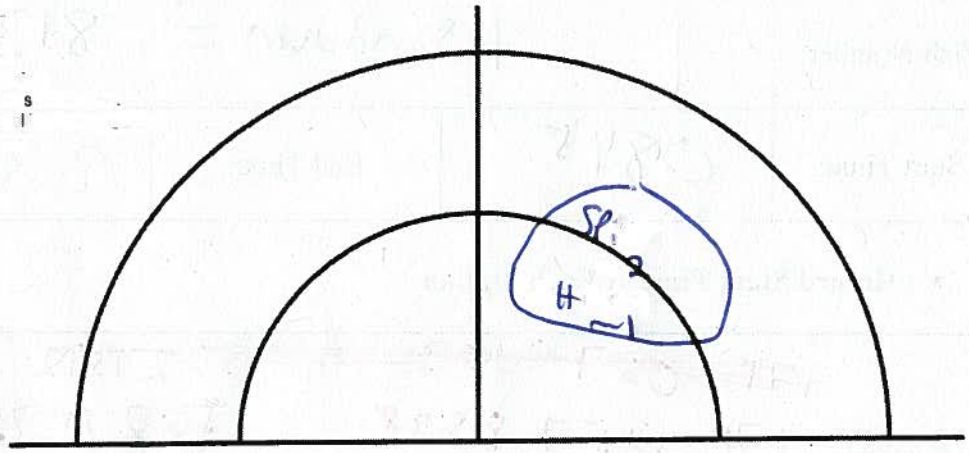
AMWO
close

T 057626 50249 J

205
0856 102

Cattail M C (low)
yes

E



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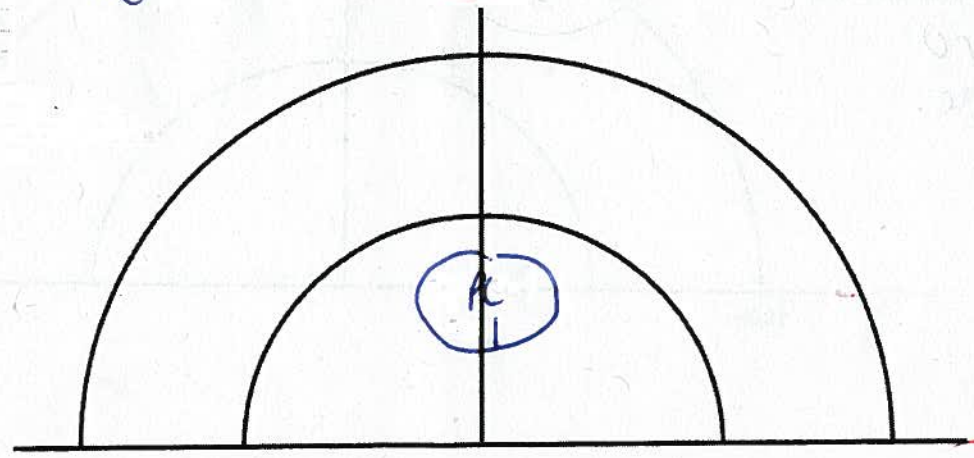
10

0911
2

low Marsh / Th ba... any
yes

E



Road

2 8 lot

g

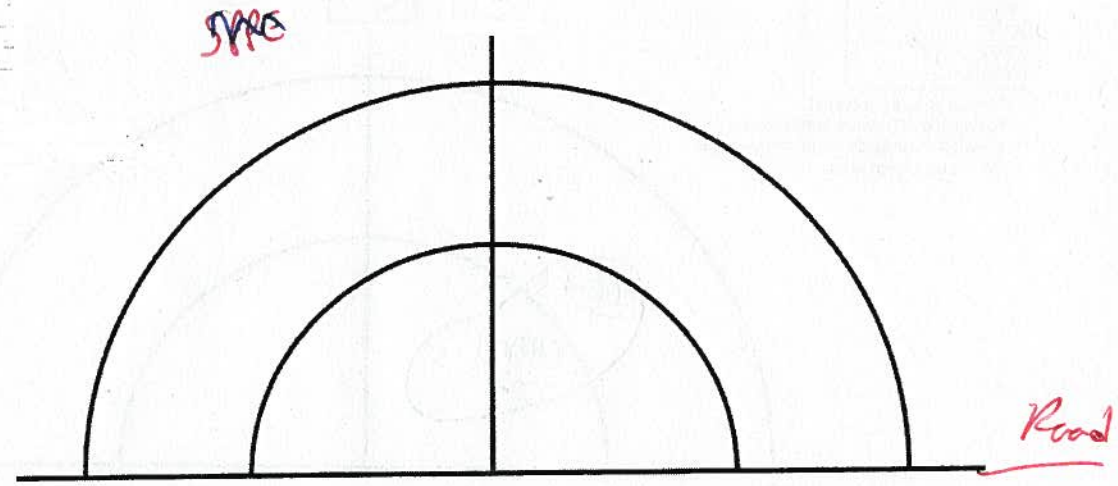
0573257 5029O

22 ~~0923m~~

04

Shrub Thicket / swamp

yes



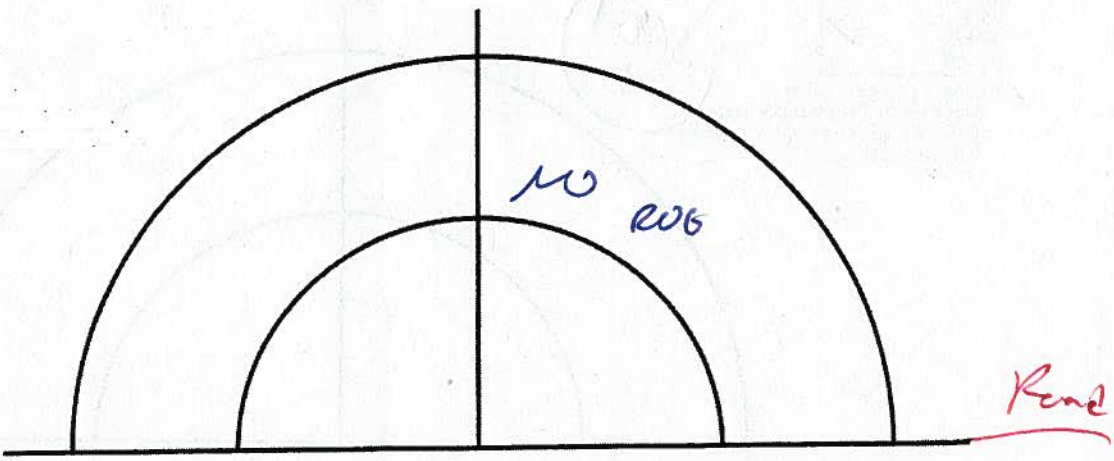
7 057 73 5030945

2134

1 US

Beaver Pond

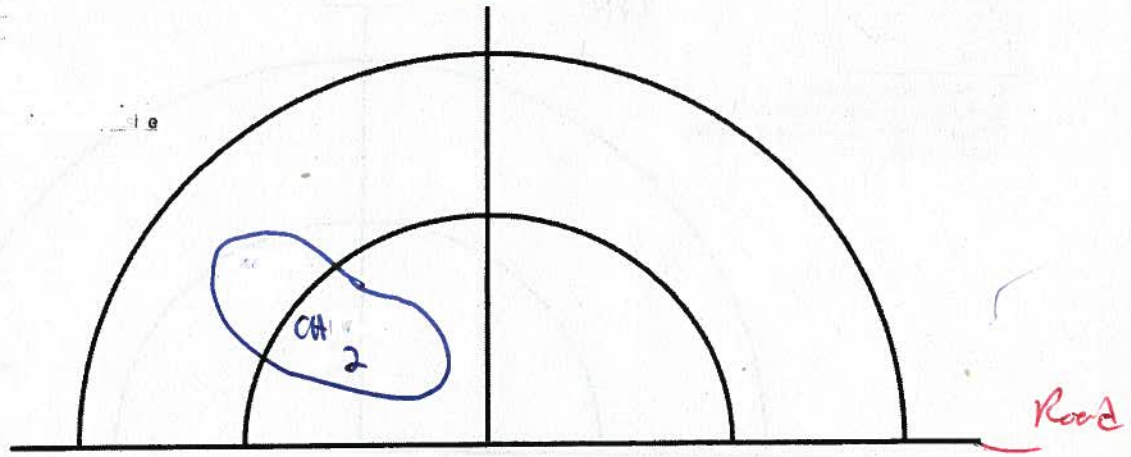
yes



(Fiel

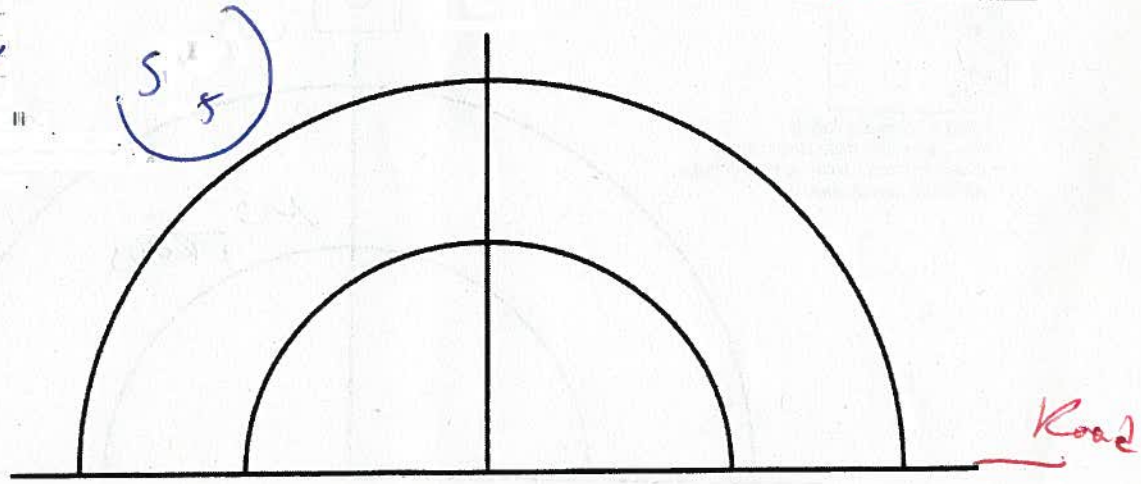
17T 0568999
5031634

2145 106 Creek
yes



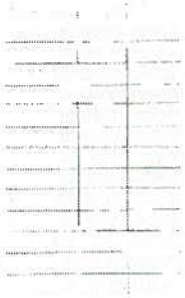
0566364 5040 9

2158 07 Marsh / Open water
yes



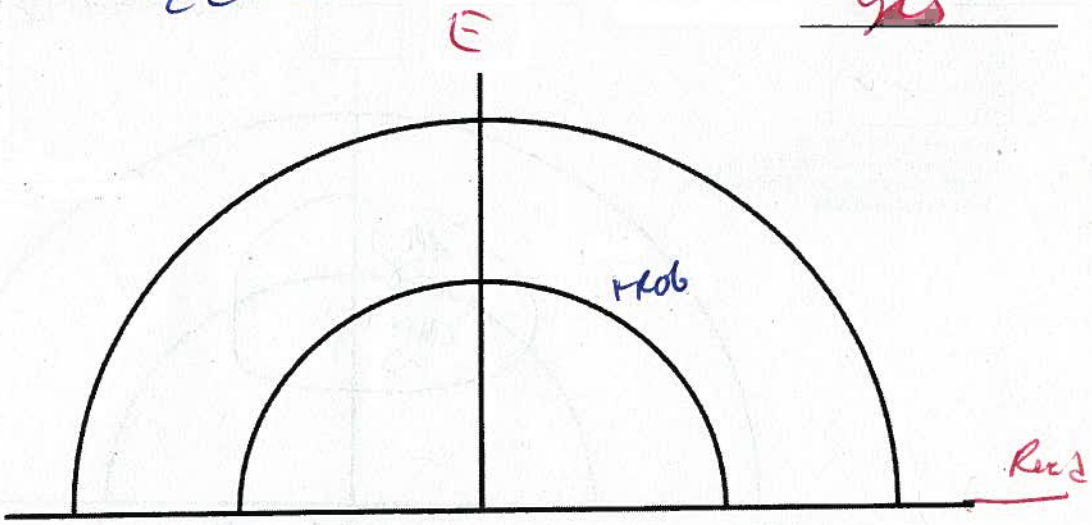
4 8

1 0564 2 5036404



2203 108 Shallow Marsh

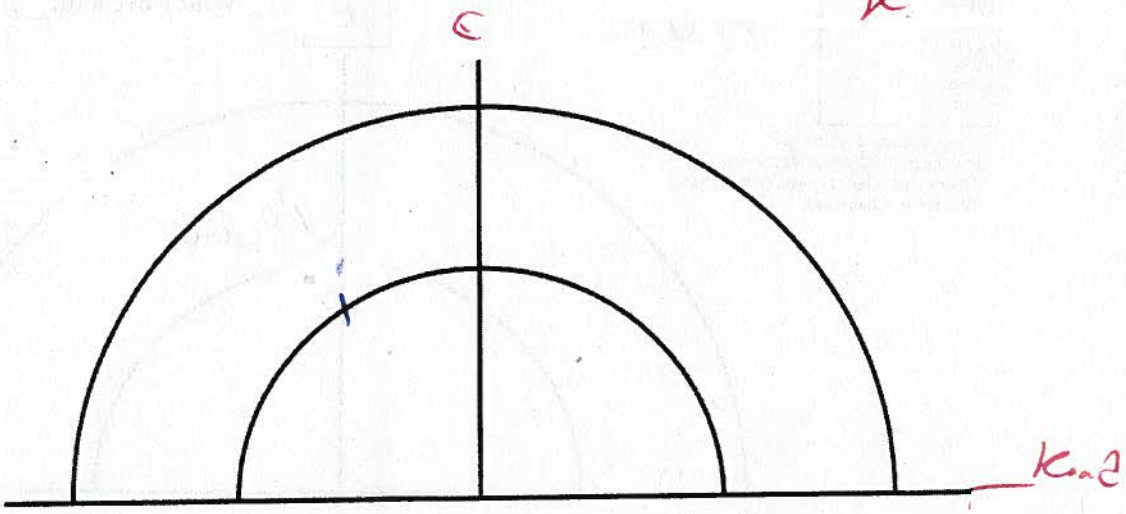
yes



T 05358 50287

20 109 Ca tai Mars Cattail fen

yes



5 eld 48

T 0562085 5038239

202

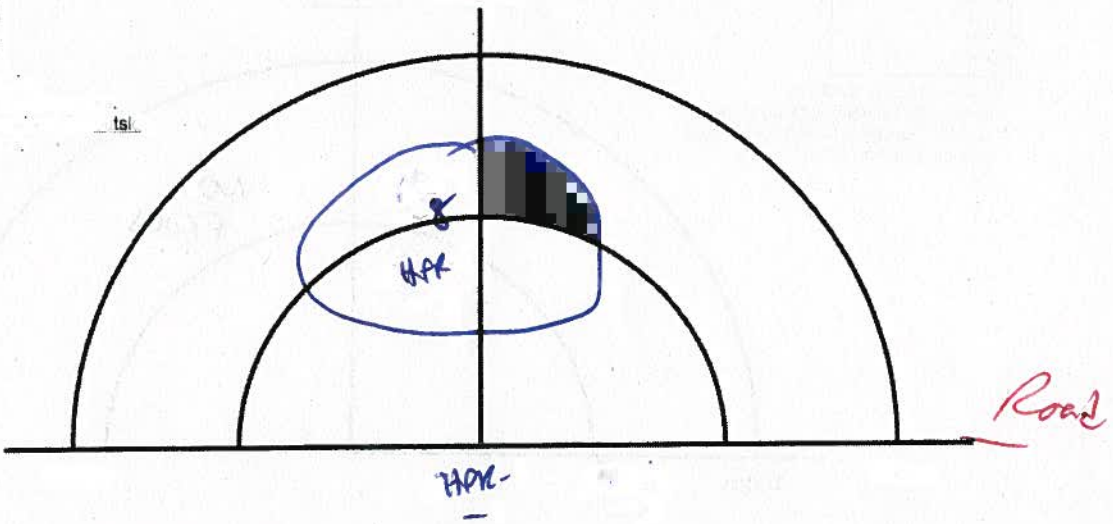
O

Road comp 20%

Ye

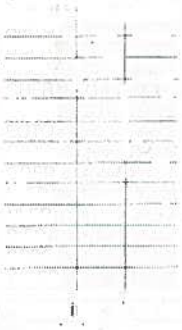
C

E



T 055 573

504 8

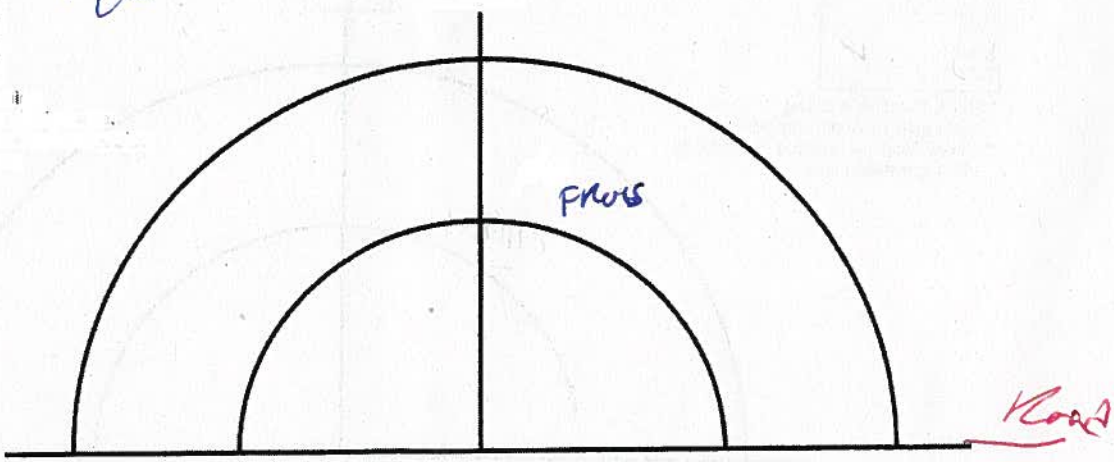


Small Cattail Shallow Marsh

Ye

2040

E



Sign tur

G

(Field P

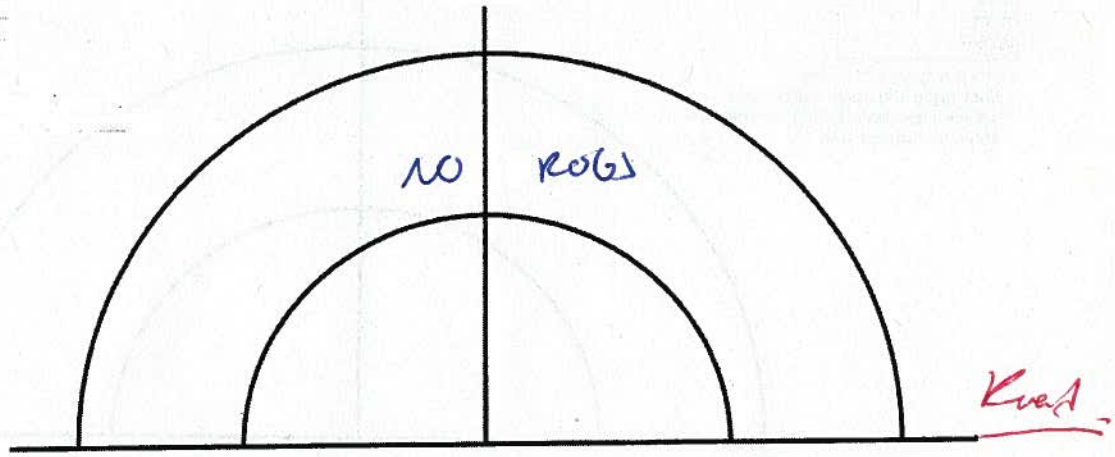
7 0558092 504 2256

(Beaver Meadow)

2248 2

Open Water / Mars

yes

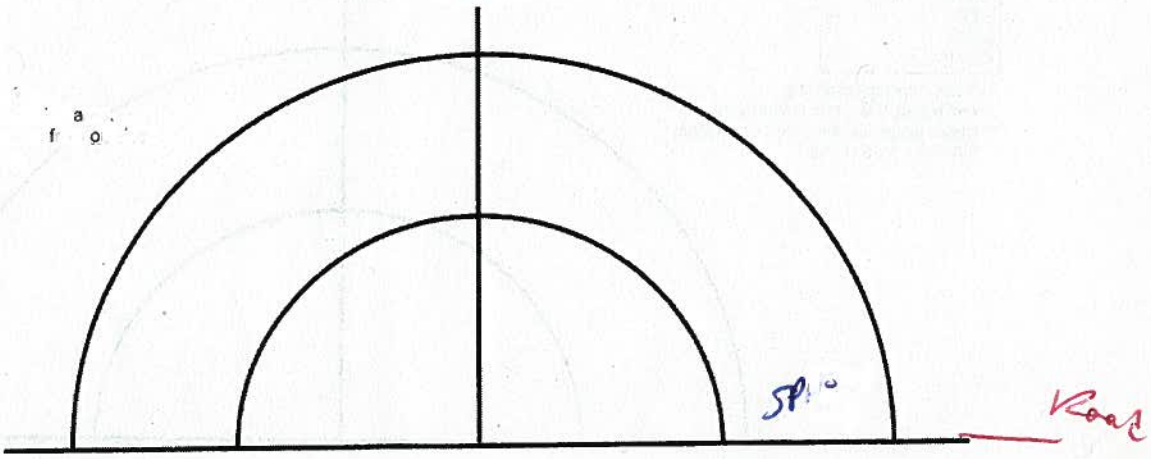


7 0556745 504 588

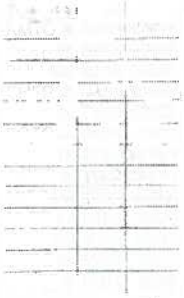
5

Open Water + The cut ramp

yes

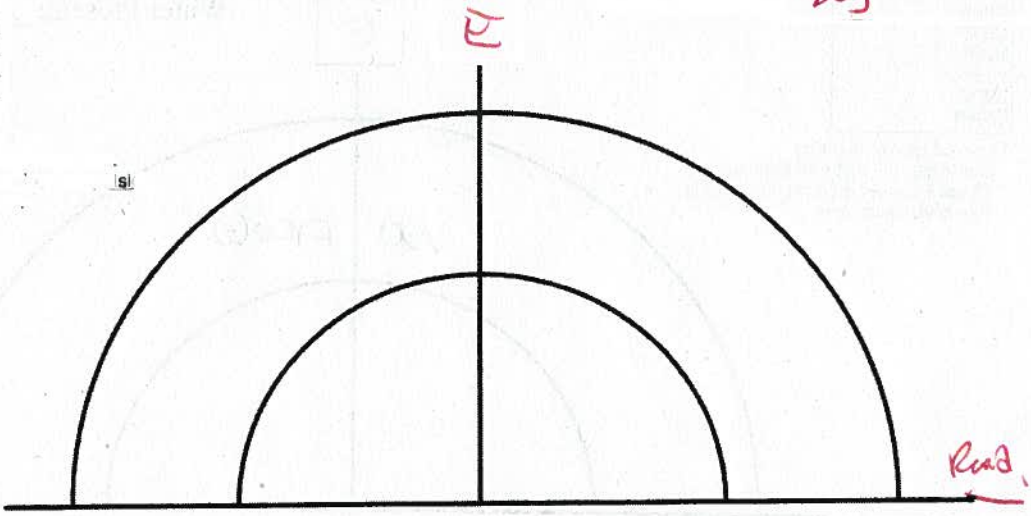


17T 0553423 5045694



2 5 4 Open Water Marsh

yes

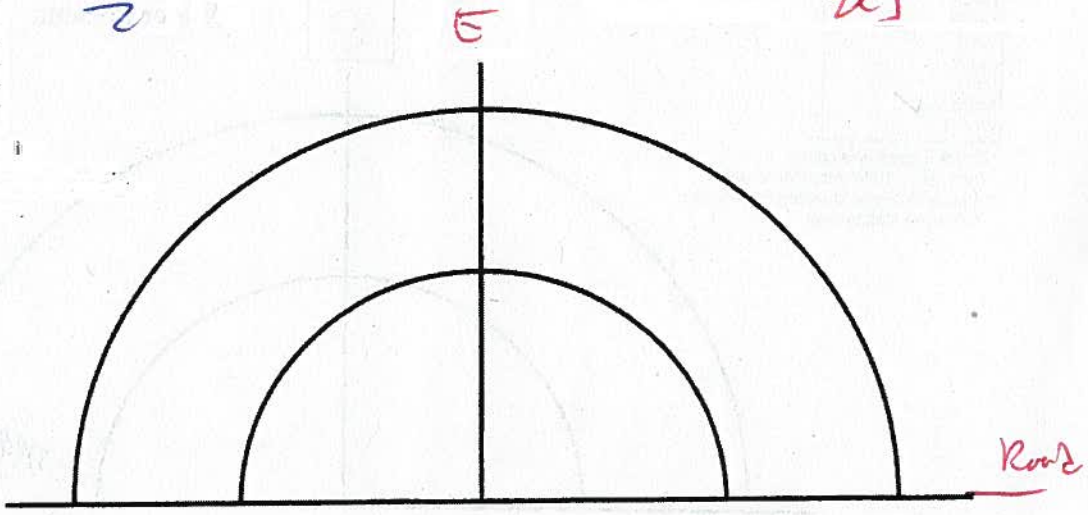


17T 0551936 5046452

5

2

yes



8

Stantec

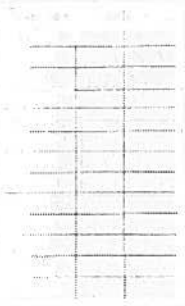
	15	3Beaufort	Trace-cirrus	nil	4-5mm overnight/ morning.

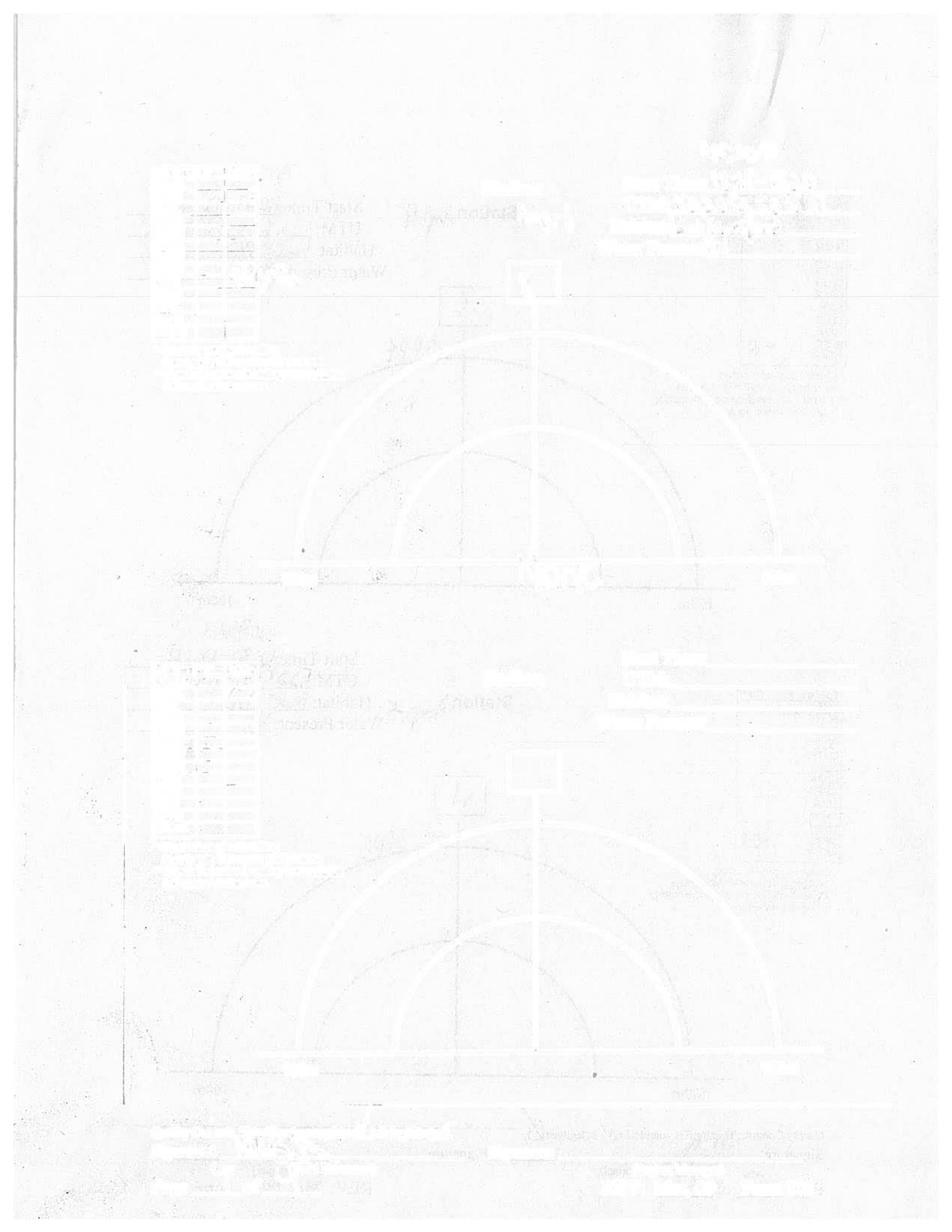
22832.5 7 579

Bog + Sedge etland

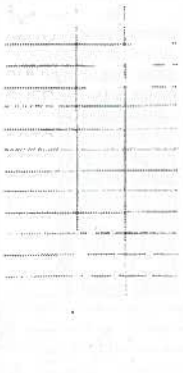
Yes

to as taken on S Rickel's compta.





17T O 50224 5047575



b

Lake + Cattail fringe + Island

yes

S

Road.

17T

• 484
505 99

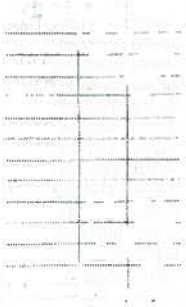
7

Black spruce Swamp

Yes - limited

0547552 $0524 62

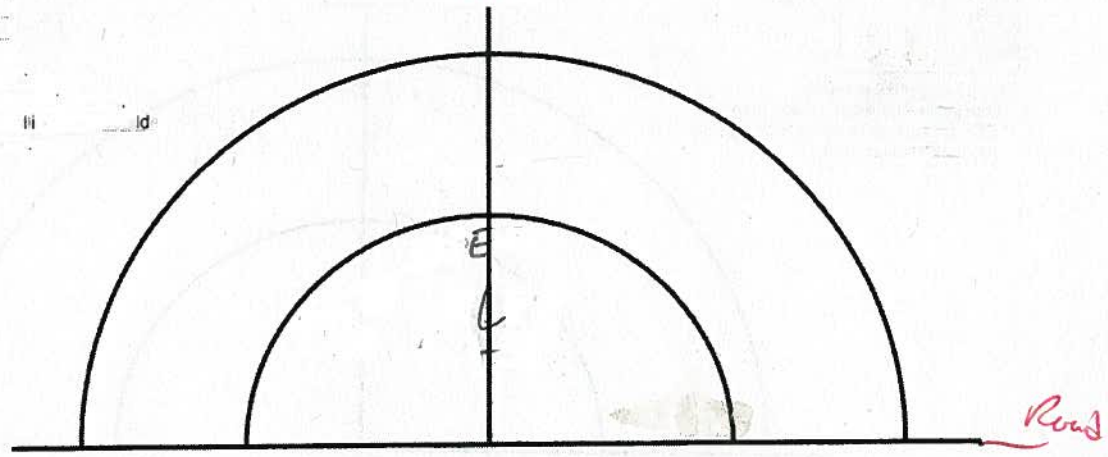
ITT



8 Cattail Marsh Open Water

yes

E



0546

50 40 3

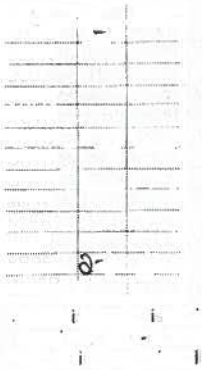
9 Shallow Marsh

E yes

CFR

Road

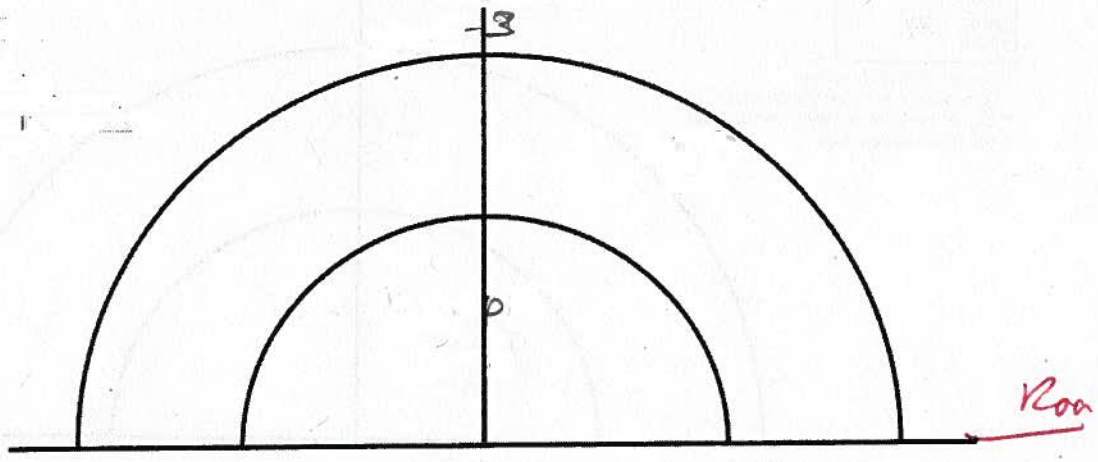
T 0545 0 5056374



120 Ma

yes

E



0 4 502
5058 4

121

E

1

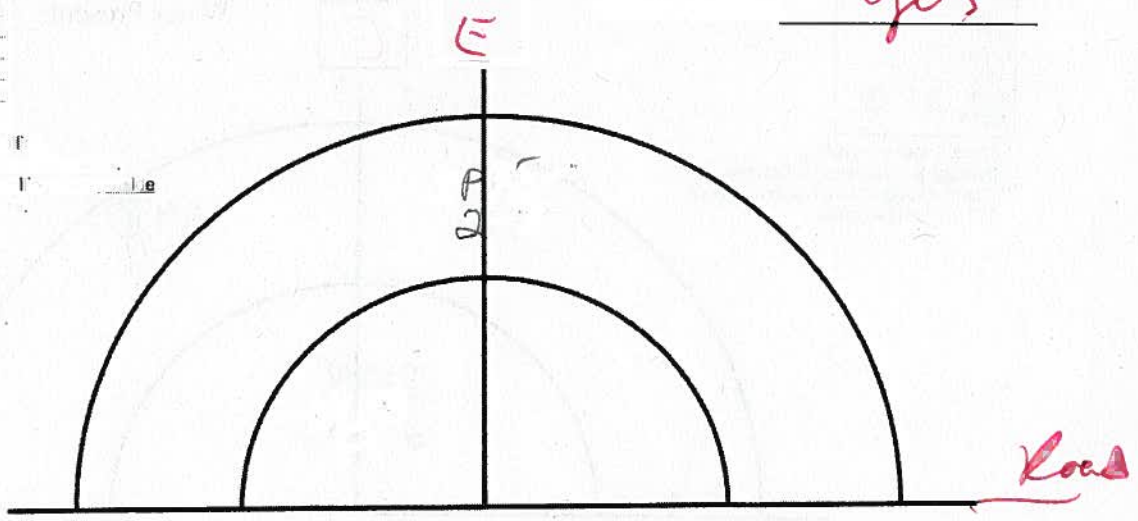
Creek + Shallow Marsh

yes

ITT 054 941
506 934

122

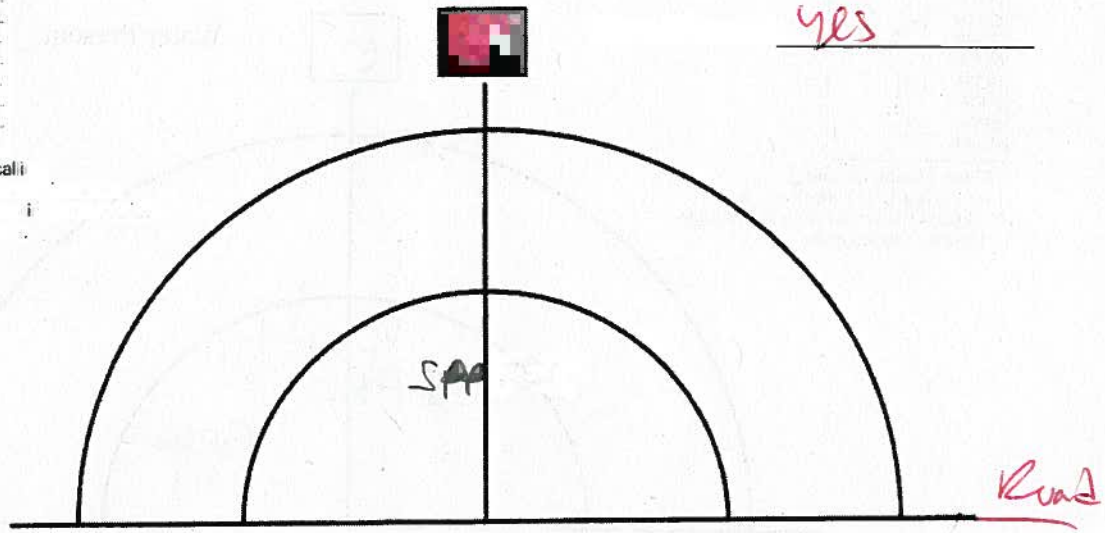
Sedge Meadow
yes



ITT 0 68
063943

123

PB Wetlands
yes



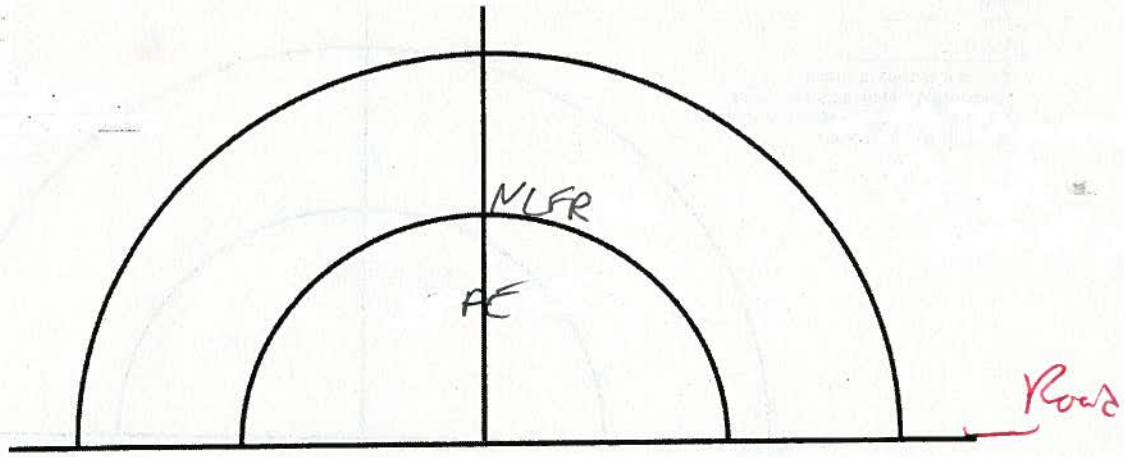
6

7 0539 4
506 03

24

Large JPB Wetland

yes



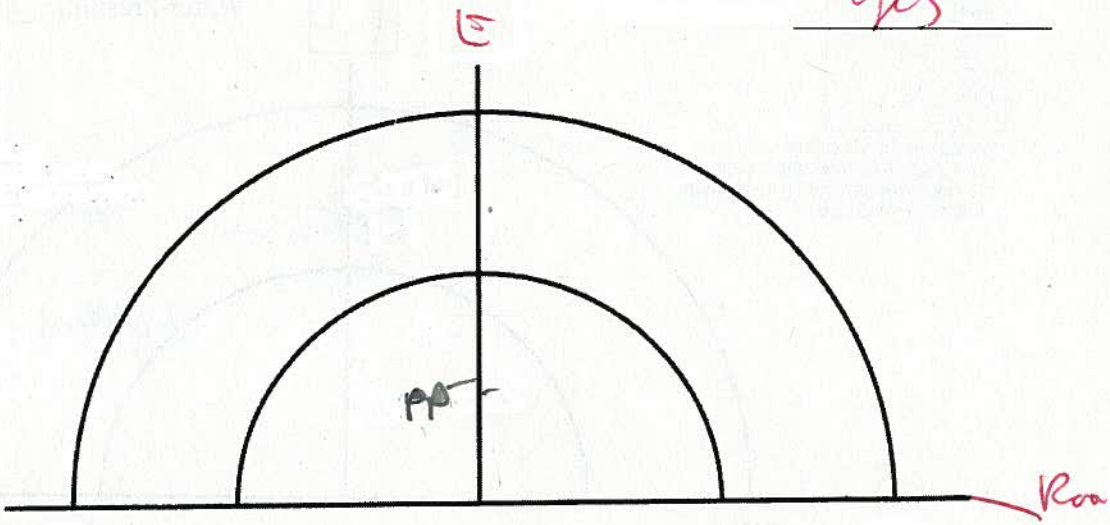
7

0538 52
5069556

125

JPB Wetlands Canal

yes



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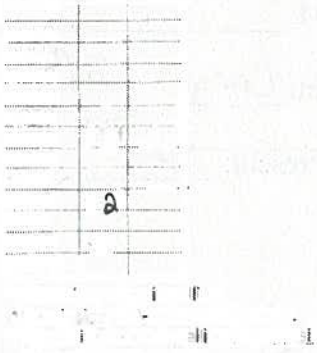

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open water (wet) & Shor

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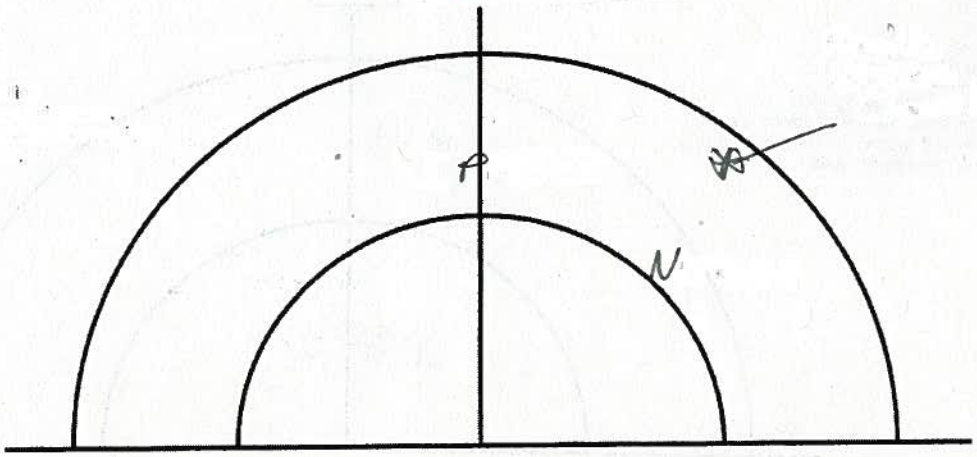

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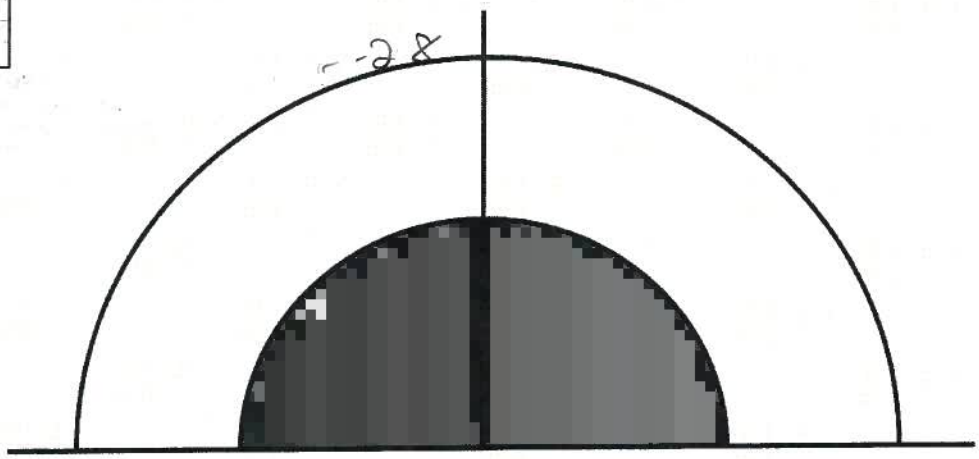

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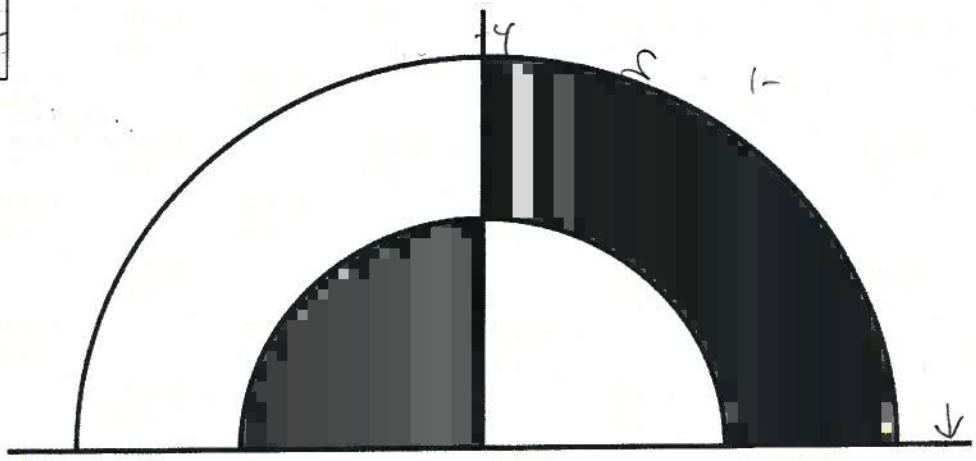

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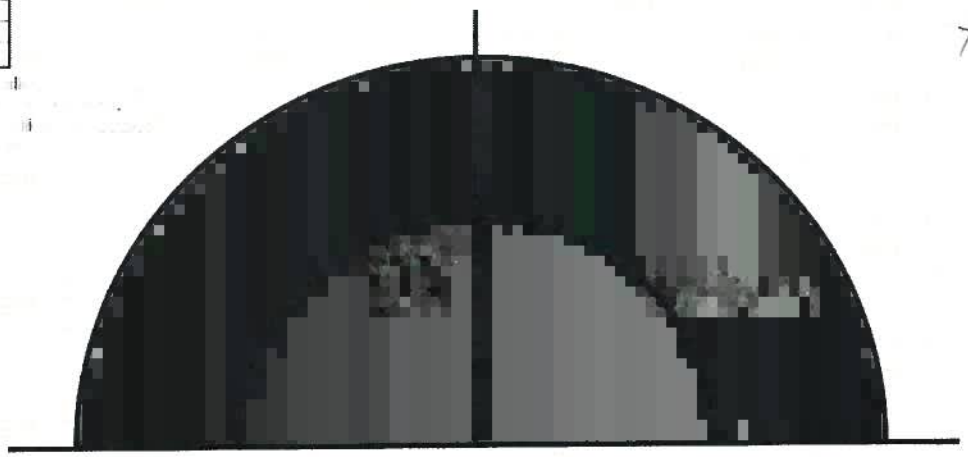

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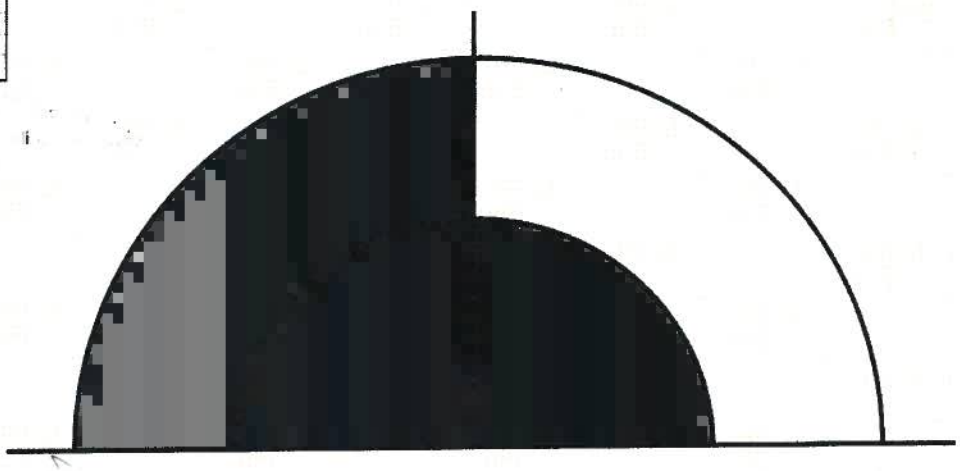

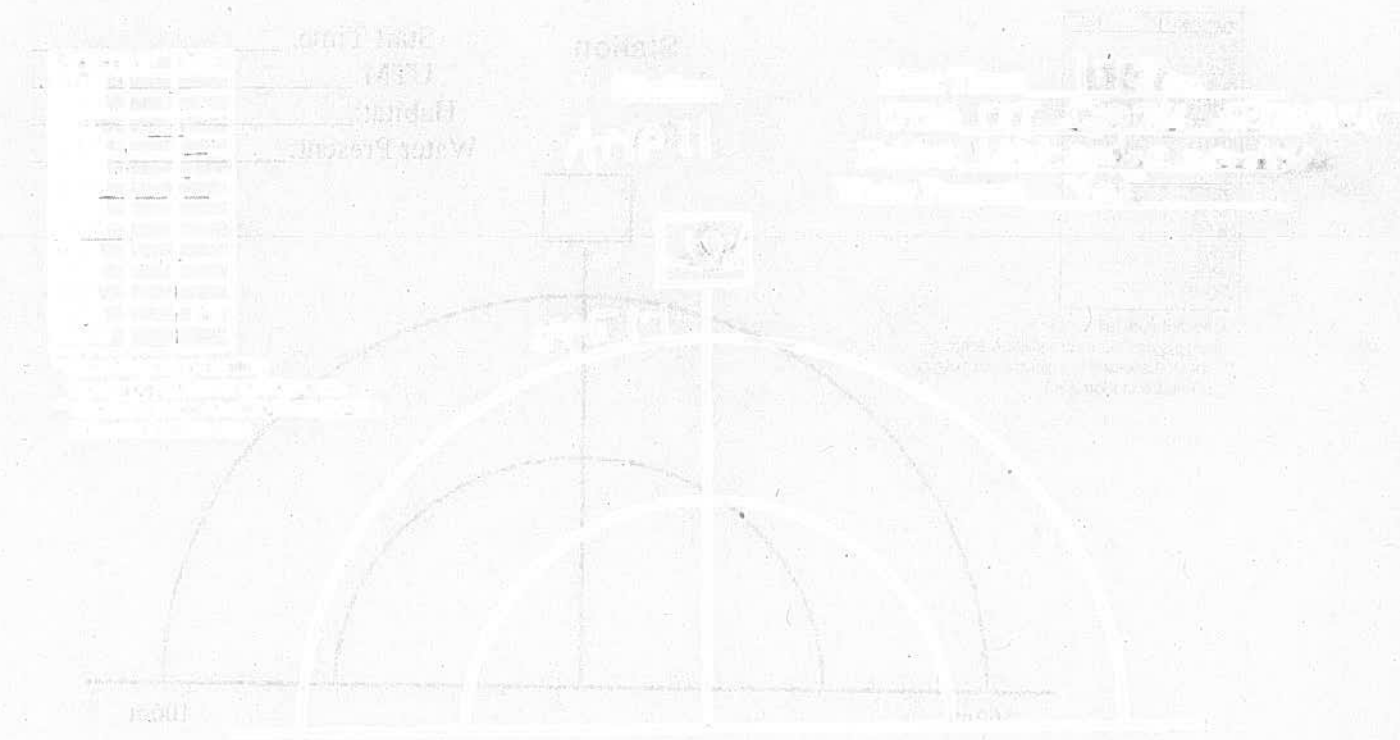

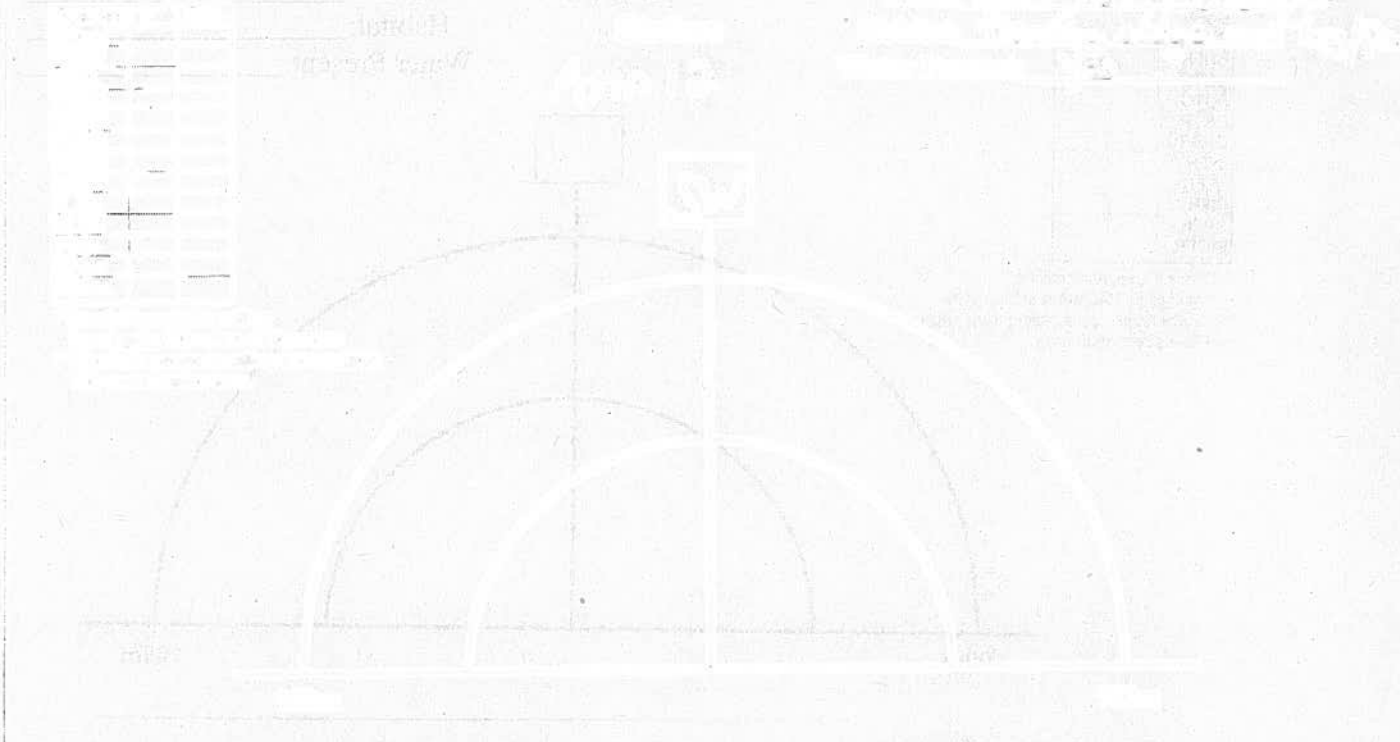

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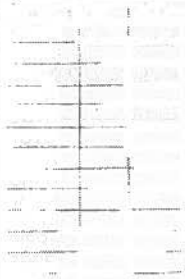

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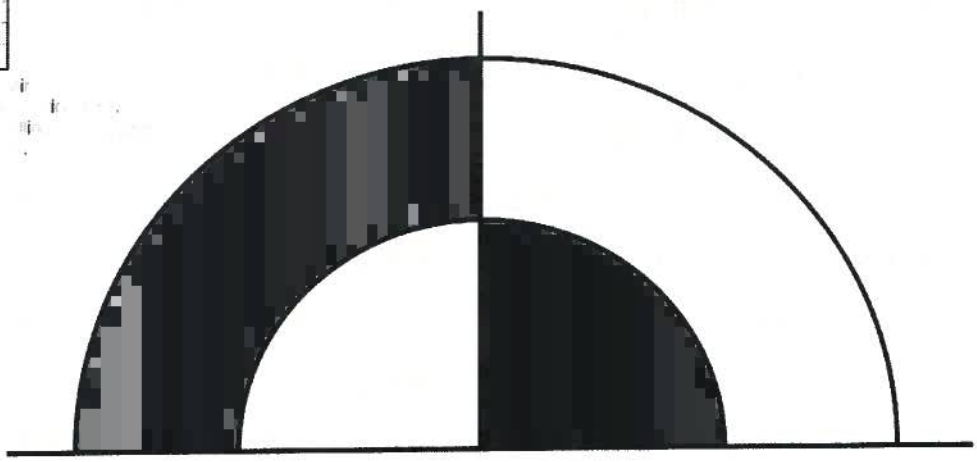

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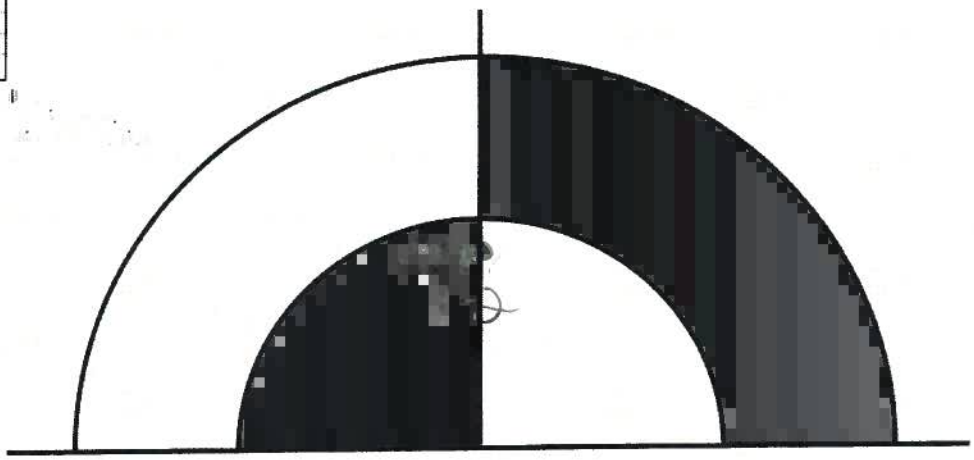
Yes



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Nov 22, 2013

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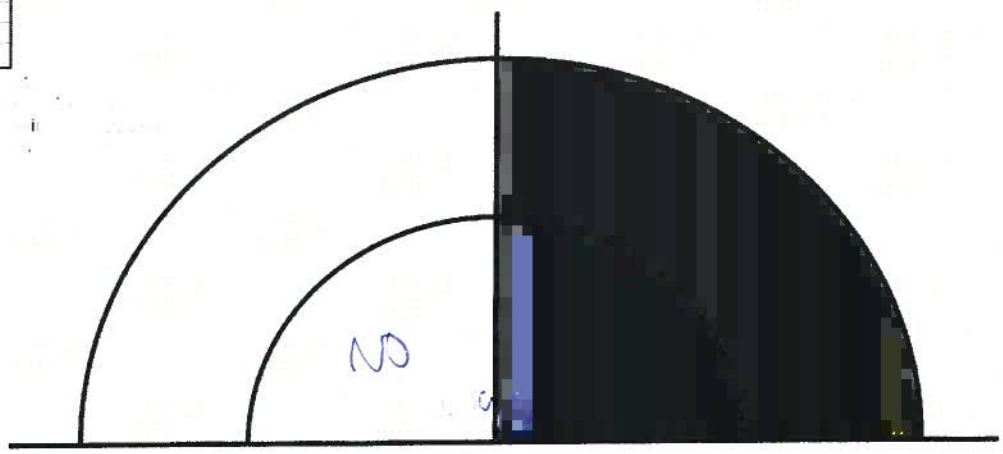

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Sphagnum 1

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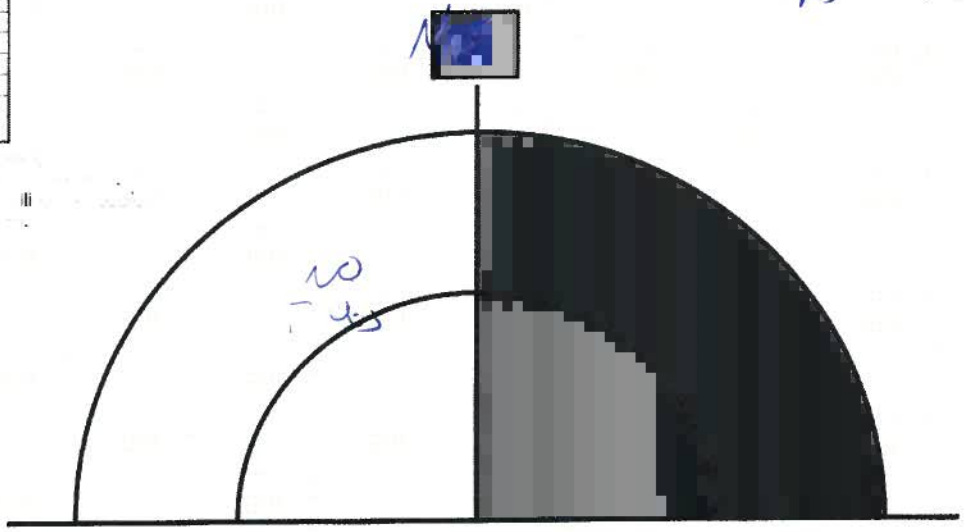

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Beaver P

yes

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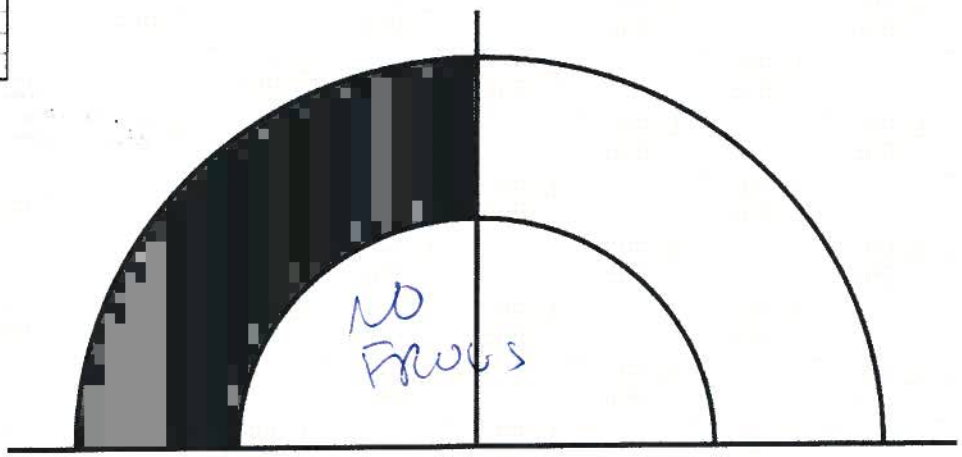

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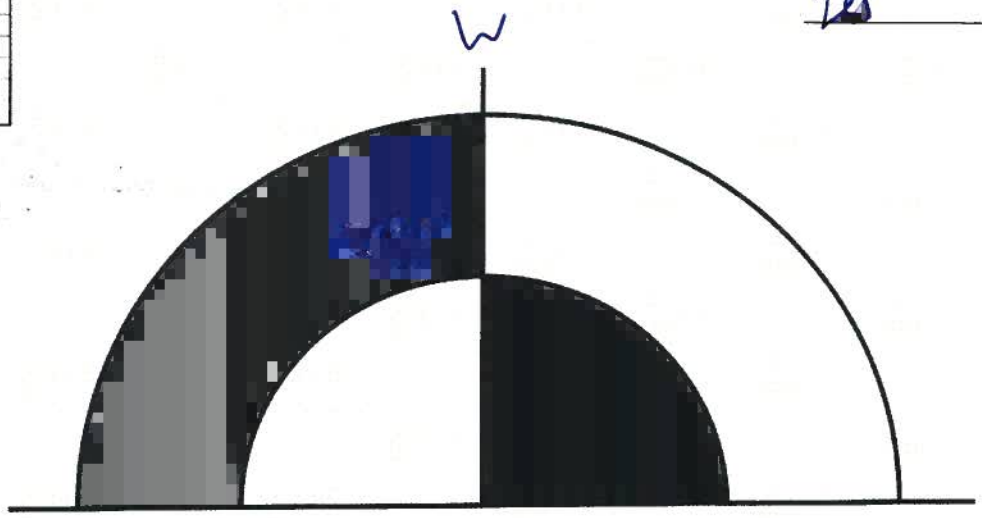
Yes



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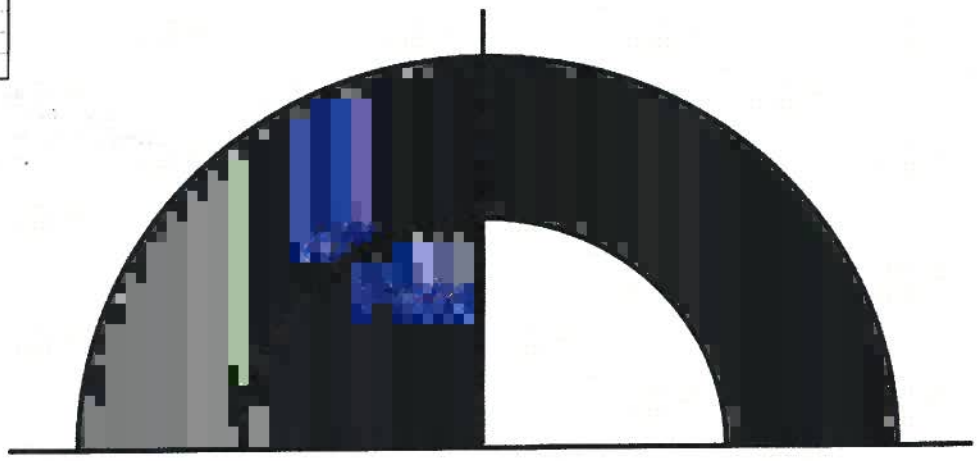

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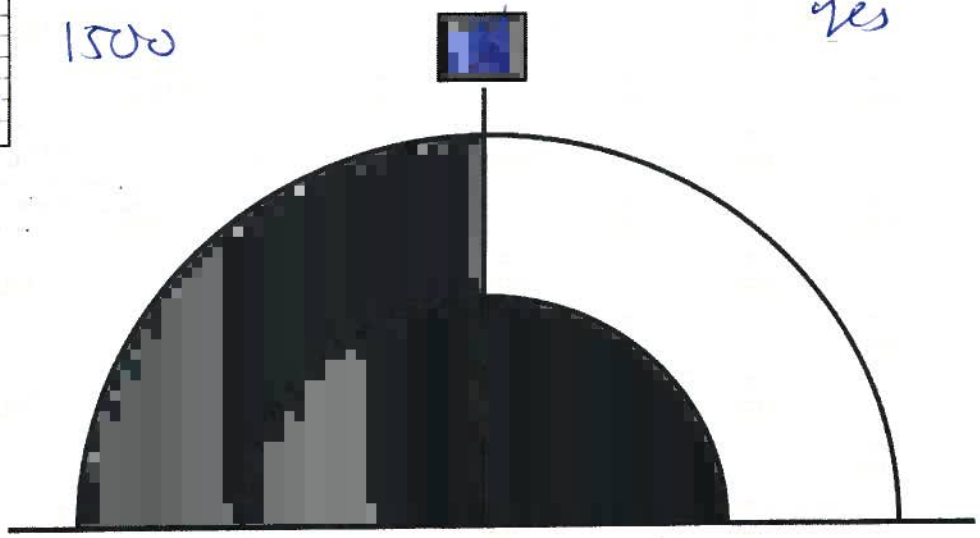
Beaver Meadow

yes



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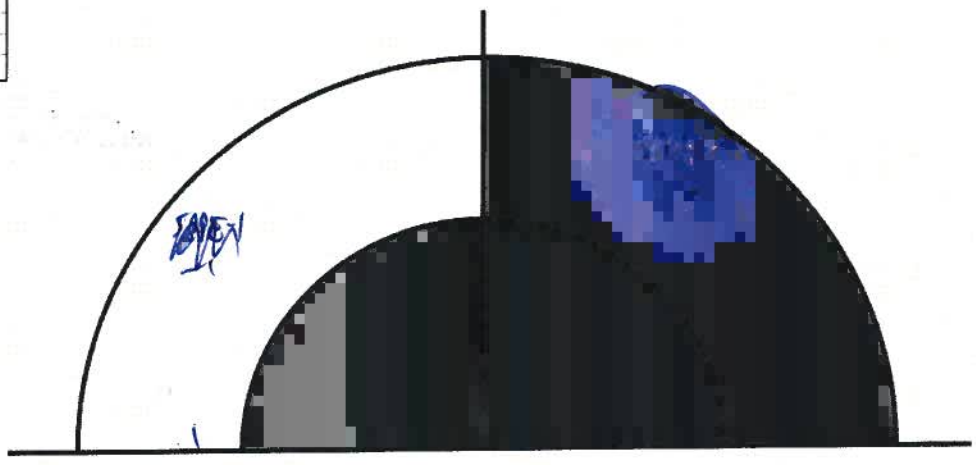

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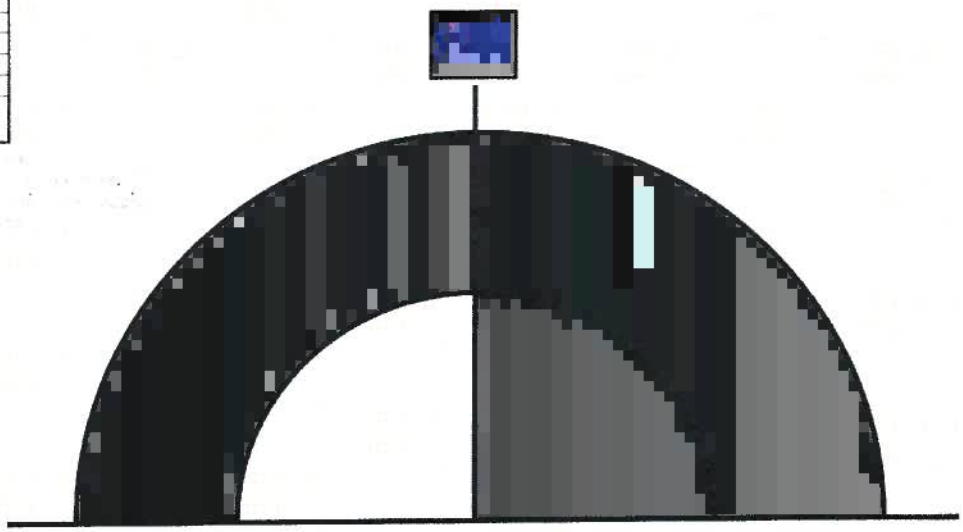
Species	In	Out**
CHFR		

Beaver



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Beaver Run team

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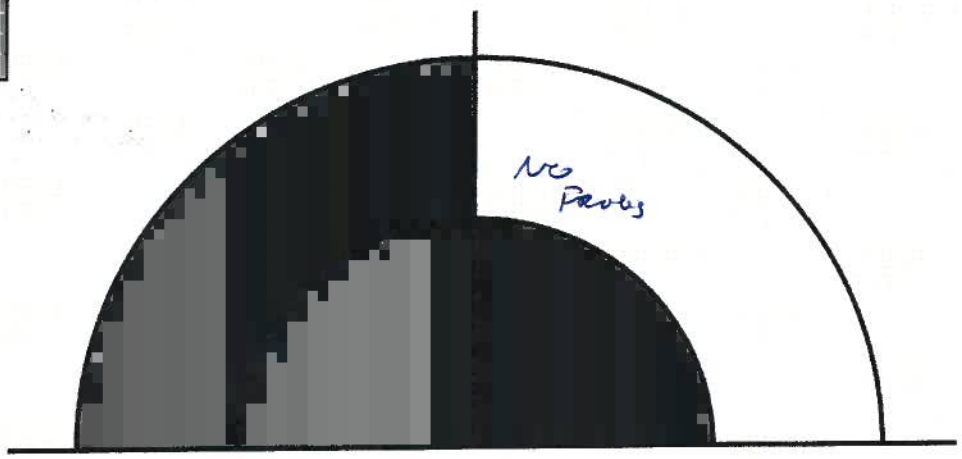

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Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

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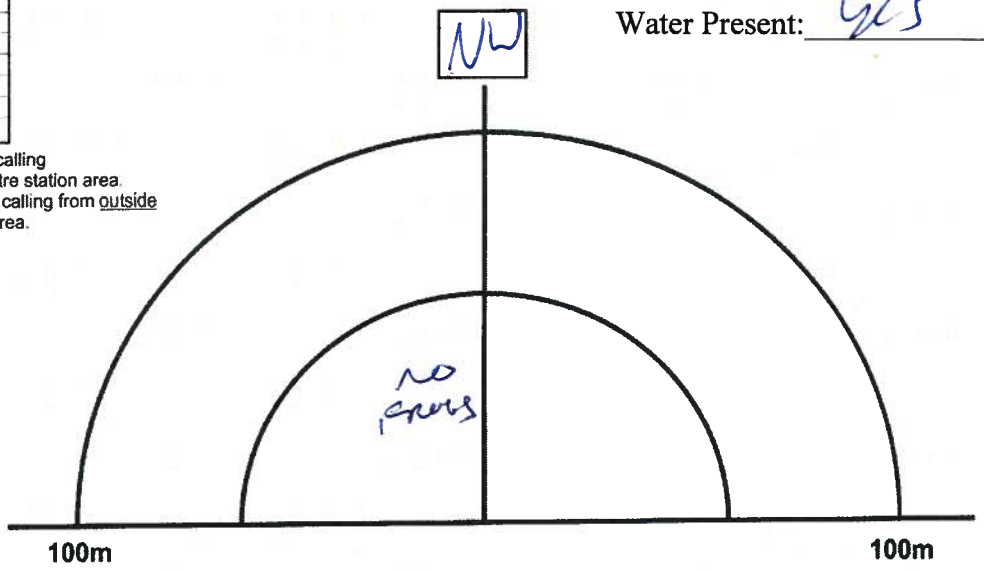
Station 137

UTM: _____

Habitat: Mixed Wetlands / Pond

Water Present: yes



Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

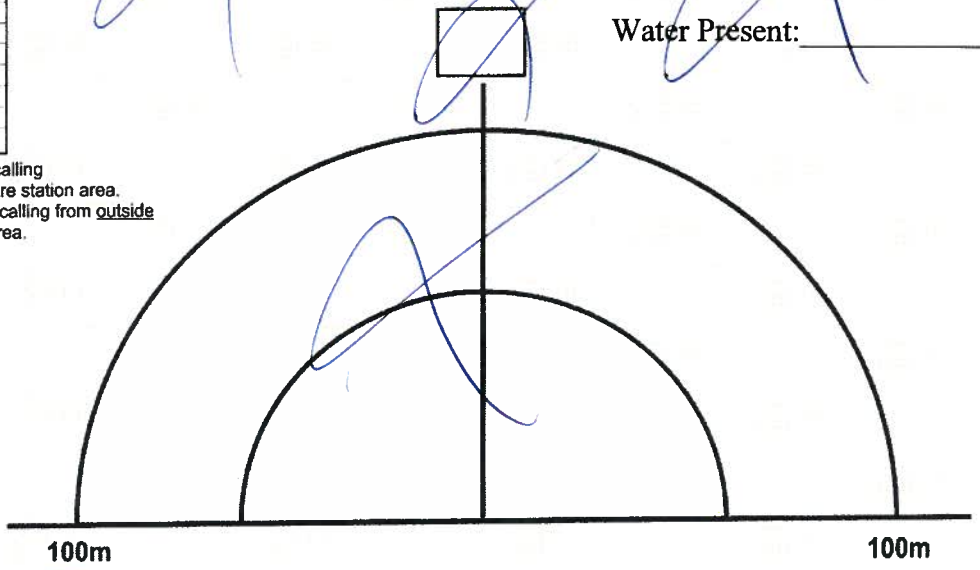
* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

Station

UTM: _____

Habitat: _____

Water Present: _____



Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

REV: Mar, 09 Form 003

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

Reptile Survey Observation Form

Project Number 160960824

Project Name:

Date / Time: May 23 2023 hrs

Field Personnel: Pete Read S R.

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
		25 km/hr 37 km/hr	100	0 to light	

LOCATION	START/ END TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
		0		

[redacted]

Quality Control: This fo is complete & legibl ( ).

Signature: _____ Signature: _____

(Field Personnel) (Project Manager)

LOCATION	TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
S7	9:30 9:35		Black-spruce (dead standing) leatherleaf bog	BLTU, [redacted], MASN-at edge
S8	9:41 9:47		cattail marsh w mixedwood treed swamp/forest on east, further north along road, large wetland	BLTU, [redacted], SNTU, surrounding upland is MASN
S9	9:51 9:55		cattail leatherleaf bog/fen on east side part of larger co	[redacted], BLTU MASN upland
S10	10:14 10:19		lake culverted under road, more wetland habitat on east side beaver-pondy	SNTU, [redacted], MUTU, BL MASN habitat in uplands
S11	10:31 10:36	turtle sp remains (small; can't identify)	part of previous point's lake, different connection; on east side, beaver pond + big dam, marshy perimeter, upland mixedwoods	BLTU, SNTU, MUTU(MASN habitat in upla [redacted]
S12	10:37	b n	po of paral water system ake, sw py edge	[redacted] ,
S13			pond with marshy/swamp ed surround	[redacted], B TU
S14			system empties into pond/lake (marshy sides and	[redacted] L ,
S15	11:02 11:07		c nne iz wetland - flows east, marshy on both sides (sedge/grasses), rocky upland on south side mixedwood forest on north side	MASN on upland; maybe MUTU?
S16	11:10 11:17		alder swamp; steep sides from road to water; swamp opens to larger lake	BLTU, SNTU, MUT, (maybe Map Turtle
S17	11:23		is arm of a lake, shrubby low border along Hwy on east side	BLTU, SNTU, MUTU, [redacted] MAP Turtle,
S18		SNTU juvenile jaw injury rescue	Shawanaga River, steep sandy or rocky sides	SNTU, MUTU

Quality Control: This form is complete (__) & legible (__).

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

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

tec

Reptile Survey Observation Form

Project Number: 160960824 Project Name: Ian Paulet

Date / Time: Mar 23/2013 Thur Field Personnel: Read Sarah

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
	4	20 km/h	100%	light rain	heavy

LOCATION	START/ END TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
S 19	2:52 2:56	SNTU adult roadkill	Sow lowing creek, marshy on roadsides, steep b t short slop on road side, bordered	SNTU, BLTU, MASN o/upland
S20	12:59 1:03		beaver pond on east side with cattail perim	S TU, BLTU, [redacted]
S21	1:10		cattail marsh shrubby borders, rocky and surrounding	BLTU, MASN, FLSK
S22	1:25 1:28		cree an bordered, sedge marsh + dead tamarack/shrub bog	BLTU, [redacted], SNTU, FLSK. Non roc, upland
S23	29 32		beaver pond	BLTU, SNTU, FLSK. MASN on ro. upland
S24	1.39		sma ake - roc y forest ge - some cattail & shrubby edge - road den... road turtle	BLTU, SNTU, [redacted], HOGNOSE. MUTH, MPTU, MASI, FLSK
S 25	2 00 2.05		small river gulch under road elsewhere on E (Hickey creek)	SNTU, BLTU, MASN, FOSN?, MUTH?

Quality Control: s compl & legibl (_).

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

LOCATION	TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
[redacted]				
[redacted]				
[redacted]				
[redacted]				
[redacted]				
[redacted]				
[redacted]				
[redacted]				
[redacted]				
[redacted]				
[redacted]				

Quality Control: This form ' complete legible

Signature: _____
(Field Personnel)

Signature: _____
(Project Manager)

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

Reptile Survey Observation Form

Project Number: 160960824 Project Name: Nigig / Henvey Inlet

Date / Time: May 23/2013 Field Personnel: Pete Read & Sarah Richer

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
	4	20	100	0	heavy rain

LOCATION	START/ END TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
	4:19	Unidentifiable turtle remains	- beaver pond, channelized, with grassy/sedgy areas, both sides bordered by rocky uplands with mixed woods	BLTU, [redacted]; MASN + FLSK on uplands
S 39	4:40	unidentified Turtle remains (3) painted (2 adult)	- new beaver meadow & pond - forest surround	recorded BLTU on map [redacted]
S 40	4:46		- beaver pond 100 m away - creek between road & pond also bordered pond as along road good habitat areas - forest + rocky	- [redacted], BLTU coming to road
S 41	453	predated turtle nest	- slow meandering stream with grassy marsh along - border rocky + forest	- BLTU, [redacted], SNTU
S 42	459		- several marsh areas surrounded by rocky areas	BLTU, [redacted] MASN,
S 43	5:00 5:13	remains of 1 painted 4 BLTU incl 1 baby	- beaver pond & drainage - swampy / marshy - bordered by rocky & forested areas	BLTU, SNTU, [redacted] MUTH, MASN, FLS
S 44	5:18		- sedgy grassy marshes; cattails, meandering open water channel series of	BLTU; MASN & FLSK maybe on either side in SNTU, rocky uplands marginal [redacted]

Quality Control: This form is complete (✓) & legible (✓).

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

May 23, 2013 Her studies South to Nobel

Species	Tall	
1	566436 503396	loon nest)
52	565843 5034590	
5	56504 50 -	
5	56 3 361	
5	541 50	
5	07	
57	3 5	
	5 5 8504	
	561 7	561164 5029118
51	50 50	559 403
511	50 342	
5	558506 5041842	
	58033 5042320	
	5599 8 5042426	
	5572 50431 +	
	5	
51	55641 0432	
51	51	
	5534 4 45	
51	78 4618	
522	5 955	
5	551 88 50	
2	0 9 0 7 0	
2	5 653 049709	
26	547903 50519 3	
527	547562 5052456	
28	547176 5053258	
29	5473103 5053585	
0	546997 5053981	
531	6793 5054808	
532	546448 5055560	
	+ 546242 055759	

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

Migratory Bird Survey Observation Form

Project Number: _____ Project Name: _____

Date: _____ Field Personnel: _____

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):

Start Time: _____ **End Time:** _____

Start Point UTM: _____ **End Point UTM:** _____

Habitat: _____ **Transect:** _____

Feature #: _____

Species	Tally

Pg. ___ of ___

Quality Control: This form is complete ☐ & legible ☐.

Signature: _____ **Signature:** _____

(Field Personnel) (Project Manager)

May 23/2013 Herp Studies South to Nobel

Species	Tally	
S-33	544315	5057763
S-34	544092	5057948
S-35	543730	5058373
S-36	543508	5058619
S-37	543392	5058736
S-38	542785	5059949
S-39	542637	5060291
S-40	542409	5060830
S-41	541944	5061924
S-42	541726	5062438
S-43	541477	5063025
S-44	541078	5063910

Pg. 7 of 7

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

Migratory Bird Survey Observation Form

Project Number: _____ Project Name: _____

Date: _____ Field Personnel: _____

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):

Start Time: _____ **End Time:** _____

Start Point UTM: _____ **End Point UTM:** _____

Habitat: _____ **Transect:** _____

Feature #: _____

Species	Tally

Pg. ___ of ___

Quality Control: This form is complete ☐ & legible ☐.

Signature: _____ **Signature:** _____

(Field Personnel) (Project Manager)

PREVIOUS SAR (REPTILE) OBSERVATIONS IN HWY CORRIDOR
- SOUTH SECTION -

Legend for Detail Sheets

Species Observations

Species of Conservation Concern		Secure Species		Unknown Species Nests	
	Habitat	■	Habitat	■	Unknown Heron Nest(s
●	Sighting	●	Sighting	■	Unknown Raptor Nest s

Habitat observations refer to specific habitat types.

For herptiles they are hibernaculum and gestation sites

For birds and raptors they are nesting sites

Data Sources - MNR NRVIS
Ecoplans Limited Fieldwork 2003 2004 2005

Species Observations Data Sources
Data source code noted after species code (ie EMRa)

Code	Data Source
a	MNR Observations
b	Ecoplans field work
c	Reptile Awareness Program Data
d	Element Occurence species records (NHIC

Proposed Alignment
- Centre Line
- Right of Way of Preferred Route
- Service Road
- First Nations Lands
- Study Corridor
- Aquatic feeding area (Ecoplans fieldwork
- Aquatic feeding area (MNR NRVIS)
- Deer yard
- Core deer yard area

Species Observations Labels

Raptors of Conservation Concern

RSH Red Shouldered Hawk

Secure Raptors

CH Cooper's Hawk
NG Northern Goshawk
OSP Osprey
RTH Red Tailed Hawk
BWH Broadwinged Hawk

Secure Birds (Non-raptors

C Common Tern
G Gull
GBH Great Blue Heron
PW Prairie Warbler

Reptiles of Conservation Concern

MS Milk Snake
BT Blandings Turtle
FS Five Lined Skink

Insects of Conservation Concern

RST Rusty Snaketail
OD Ocellated Damer

Ontario

Highway 69 Route Selection Preliminary Design
Figure 6 - Wildlife Overview ap

Project No. 03 - 2667
Date: Mar 2006

ecoplans limited

Canadian Pacific Railway

Highway 69

Study Limits

Nobel
5 km

Ontario

ecoplans Limited

Highway 69 Route Selection Preliminary Design
Figure 7 - Wildlife - Plate 1

Project No.	Date
03 - 2667	Mar 2006

200 400 m

1:15,000

N

Ontario

ecoplans limited

Highway 69 Route Selection Preliminary Design
Figure 7 - Wildlife - Plate 2

Project No	Date	200	400 m
03 - 2667	Mar 2006	1:15,000	N

Shebeshekong Road

Highway 6

Ontario

ecoplans Limited

Highway 69 Route Selection Preliminary Design
Figure 7 - Wildlife - Plate 3

Project No.	Date
03 - 2667	Mar 2006

200 400 m

1:15,000

Canadian Pacific Railway

High Val 69

Ontario

ecoplans Limited

Highway 69 Route Selection Preliminary Design
Figure 7 - Wildlife - Plate 4

Project No.	Date	200	400 m
03 - 2667	Mar 2006	1:15,000	

Ontario ecoplans Limited

Highway 69 Route Selection Preliminary Design
Figure 7 - Wildlife - Plate 5

Project No	Date
03 - 2667	Mar 2006

0 200 400 m
1:15,000
N

Canadian Pacific Railway

Highway 529

Highway 69

Pointe au Baril

Ontario

ecoplans Limited

Highway 69 Route Selection Preliminary Design
Figure 7 - Wildlife - Plate 6

Project No.	Date	0 200 400 m
03 - 2667	Mar 2006	1:15,000

Ontario

ecoplans Limited

Highway 69 Route Selection Preliminary Design
Figure 7 - Wildlife - Plate 7

Project No.	Date	200	400 m
03 - 2667	Mar 2006	1:15,000	

Ontario

ecoplans limited

Highway 69 Route Selection Preliminary Design
Figure 7 - Wildlife - Plate 8

Project No.	Date
03 2667	Mar 2006

200 400 m
1:15 000

N

Legend for Detail Sheets

Proposed Alignment

- Centre Line
- Right of Way of Preferred Route
- Service Road
- Study Corridor
- First Nations Lands

- Vegetation Units (Ecoplans 2003 - 2005
- Vegetation Units with high poten al for EMR nibernation habitat
- Vegetation Units with high potential for EMR gestation and/or foraging habitat
- Vegetation Units with low potential for EMR hibernation, gestation and/or foraging habitat

- 93 Area with high potential for EMR hibernation habitat
- 93 Area with high potentail for EMR gestation and/or foraging habitat
- 93 Area with low potentail for EMR hibernation, gestation and/or foraging habitat

EMR Observations

- Habitat
- Sighting

Habitat observations refer to hibernaculum and gestation sites

Species Observations Data Sources
Data source code noted after species code ie EMRa)

Code	Data Source
a	MNR Observations
b	Ecoplans field work (2003, 2004, 2005)
c	Reptile Awareness Program Data
d	Element Occurence species records (NHIC)

Ontario

Highway 69 Route Selection Preliminary Design
Figure 8 - Eastern Massassauga Overview ap

Project No 03 - 2667

Date: Mar 2006

ecoplans Limited

Study
Limits

Highway 69

Ontario

ecoplans Limited

Highway 69 Route Selection Preliminary Design
Figure 3 - Vegetation Units - Plate 8

Project No	Date
03 2667	Mar 2006

0 200 400 m
15,000

Poin
Barl

Island

wanaga
Inlet

wassaxe n

ay

Sheb

N
5 km

Legend

Right of Way of Preferred Route

Study Corridor

Approximate distribution of Massassauga Rattlesnakes defined as lands within 2 5 km of MNR, RAP and NHIC records of occurence

Ontario

Highway 69 Route Selection Preliminary Design
Figure 4 Approximate Distribution of Massassauga Rattlesnakes

Project No 03 - 2667

Date Mar 2006

ecoplans

aprils

Six Mile

I au
Barl

gga iver

W sas

dy
mi

She eko

S

Legend

Right of Way of Preferred Route

Study Corridor

Areas Surveyed By Ecoplans Staff
August 30 - September 1, 2004

Ontario

Highway 69 Route Selection Preliminary Design
Figure 5 - Areas Surveyed For Eastern Massassauga Rattlesnakes By Ecoplans Staff Aug 30 - Sep 1, 2004

Project No 03 - 2667

Date Mar 2006

ecoplans

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

Reptile Survey Observation For

160960824

May 22 2013 Wed

Project Name:

Field Personnel:

Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
16°C	Beauf 1	100%	nil, slight rain	a code 3/4 some heavy ra

N1	1-31 :45		-channel of w' wit we surrounded rock	- Blandings, [redacted] possible N
N2	2:00 2:15	-	-la e & marsh,	- mass. shk + in -BLTU, MASN, FLSK, [redacted]
N3	2:18 2:33		ash, pond, rock barren bordered	-BLTU, MASN, FLSK, [redacted]
N4	2:40 2:45		- Beaver pond surrounded by rock barren, large bea er dam + beaver lodge + lots of	-BLTU, MASN, FLSK, [redacted]
N5	2:45 2:50	Turtle [redacted]	-creek anne, marsh edge, beaver dam, baskin rocks + logs - ock tar ar und - wet basking	-BLTU, MASN, [redacted], FLSK
N6	2 55 3 00			-BLTU, [redacted], FLSK
N7	:02 3:7		- channel dram - -beaver dam basking	sides -BL 2 MASN, [redacted] FLSK, SNTH

Quality Control. This fo is omplete & legib e

Signature: (Field Personnel)

Signature: (Project Manager)

LOCATION	TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES possible species
N 8	3:10 3:15		- channel with marsh - opens to open water - rocky edges	BLTU, MASN, [redacted]
N 9	3:17 3:20		- channel with beaver dams open ponds - rocky edges	BLTU MASN [redacted]
N 10	3:23 3-26		~~bass~~ ponds back from road marshy areas	BLTU MASN [redacted]
Plate 3 N 11	4:30 4:35	*BLTU SNTU MASN confirmed	- pond along tracks with marsh - creek at corner.	MASN, BLTU, SNTU, Hognose, [redacted]
Plate 4 N 12	4:39 4:44	~~Northern~~ northern watersnake RK	- channel → wetlands alongside - bordered with woods. * BLTU + SNTU confirmed	BLTU, SNTU, MASN, [redacted]
N 13	4:46 4:50	← * confirmed for BLTU + SNTU	- inlet - forest & rocky edges.	BLTU, SNTU, MASN, FOSN?, Hognose, [redacted]
N 14	4:50 4:58	*BLTU, MASN, SNTU confirmed	- Key River Hwy 69; mosaic of river, mixed woods, open grassy slopes, rocky outcrop areas, and watery ditches on east side of Hwy, on North side of Bridge	Foxsnake found at Key River in 2011 + Stinkpot
N 15	5:00 5:05	* SNTU BLTU confirmed	- open lake - forest & rock marshy edges	[redacted], MASN, Stinkpot
N 16	5:07 5:12	* BLTU, SNTU	Grundy lake forest surrounded marshy	MASN, Stinkpot, Hognose
N 17	5:12 5:17		- cattail marsh	BLTU, MASN,

Quality Control: This form is complete (✓) & legible (✓)

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

M 2- 201 Pj # 160 6' 4"

R1

Other Bird Species

Please record any flock behavior (i.e. gulls, crows, blackbirds), raptors or any significant species.

Species	No. of Individuals	Location (e.g. in water puddle, agr. field near puddle, mowed lawn, etc.)	Behaviour (i.e. height/direction of flight, feeding, etc.)
N1	1081	9	
	40854	0644	
N	54	85	25
N4	40197	50 81	
5	9998	506 0	
N6	39949	66404	
7	5	77	
N8		67274	
9	394	5067560	
N10	591	8429	
N11	.69	. .	
N1	336.	79472	
N	3	20 80 8	
N14	3	6 1.9	
N1	3	17 4	
N16	5	64	
N17	32	0 88	

Signature: (Field Personnel)

Quality Control: This form is complete ☐ & legible ☐

Signature: (Project Manager)

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

tantec

Waterfowl Migration Observation Form

Project Number: _____ Project Name: _____

Date: _____ Field Personnel: _____

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):

Flock No.	Time	Species	No. of Individuals	Location (e.g. in water, agr. field near puddle, mowed lawn, etc.)	Behaviour (i.e. height/direction of flight, feeding, etc.)

Quality Control: This form is complete ❑ & legible ❑.

Signature: _____ **Signature:** _____

(Field Personnel) (Project Manager)

PREVIOUS SAR (REPTILE) OBSERVATIONS IN HWY CORRIDOR

- NORTH SECTION -

Canadian Pacific Railway

Study Limits

Highway 69

PREVIOUS OBSERVATIONS

Ontario

ecoplans Limited

Project No.
03 - 2667

0 100 200 m
1:15,000

Byng Inlet

Canadian Pacific Railway

Highway 69

BTa

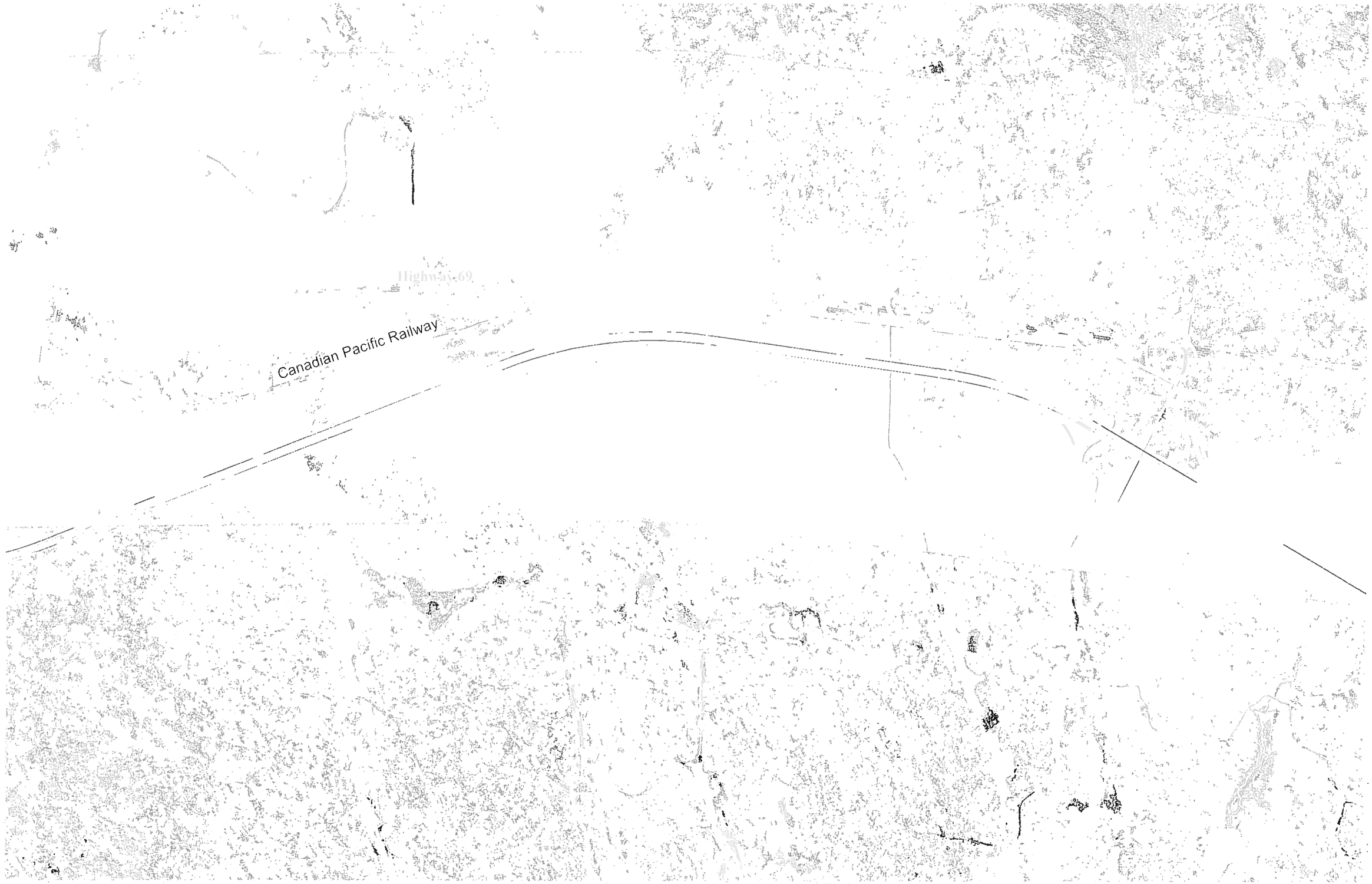
l River

ecoplans Limited

Project No.	Date
03 - 2667	Aug 2007

0 100 200 m

1:15,000

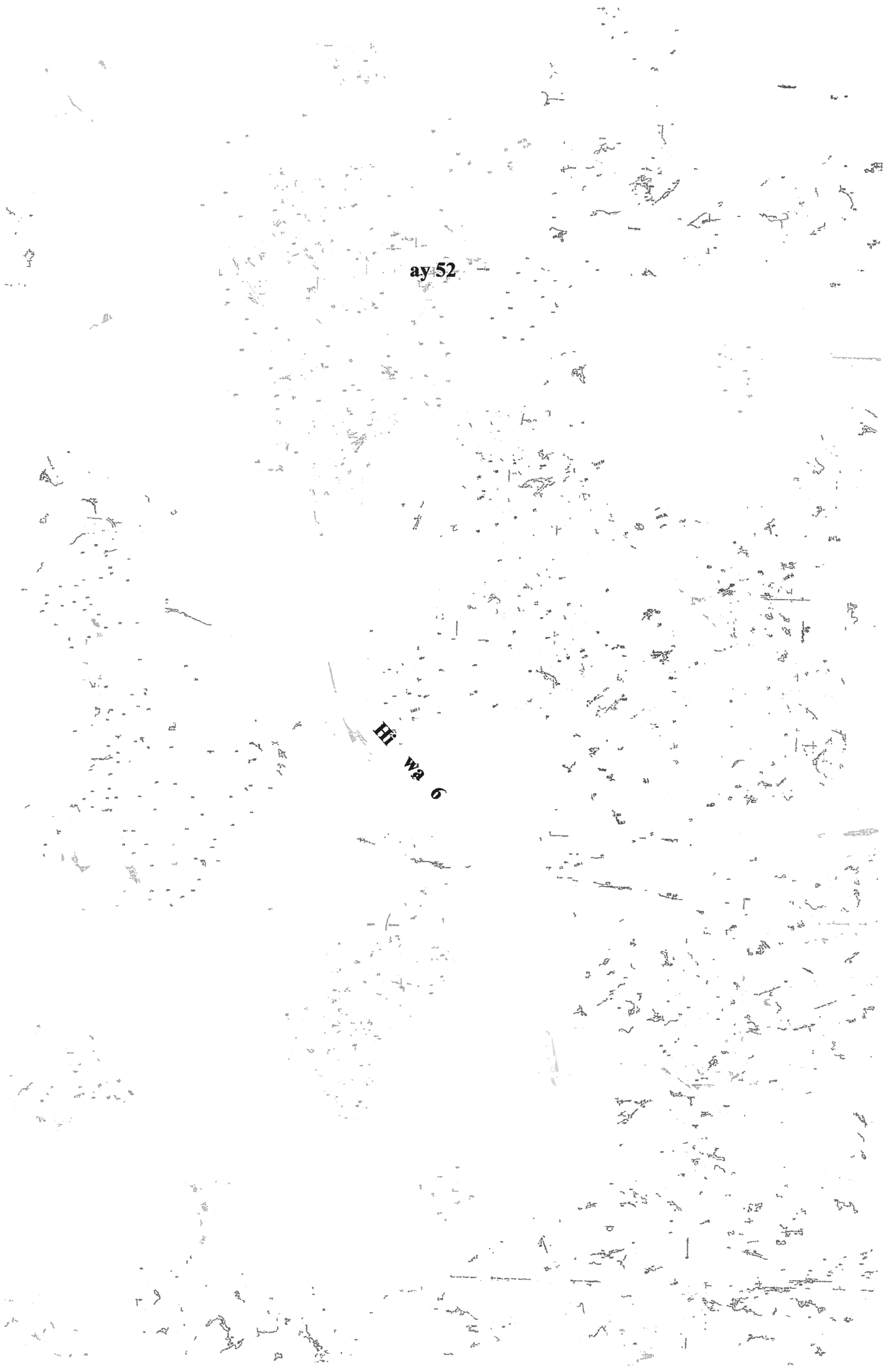


Ontario

ecoplans Limited

Date
Aug 2007

0 100 200 m
1:15,000



Legend

Centre Line Existing Highway 69
Edge of Pavement Proposed Highway 69
Proposed Right of Way

Approximate distribution of Eastern Massasauga Rattlesnakes
defined as lands with n 2 5 km of MNR records of occurence

N

Project No. Date
03 - 2667 Aug 2007

ecoplans
Limited

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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Reptile Survey Observation Form

Project Number: 160960824

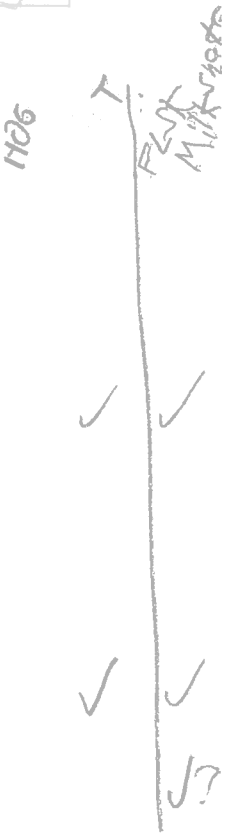
Project Name: Nigig / Henvey

Date / Time: May 24 2013

Field Personnel: V Richer P Read

Weather Conditions:	Temp: 12-16	Wind:	Cloud: <50%	PPT: 0	PPT in last 24 hrs:

LOCATION	START/ END TIME	SPECIES	NOTES
1	2:2		
2			
3			
4			
5			
6			



Quality Control: This form is complete (✓) & legible (✓).

Signature: Peter Read (Field Personnel)

Signature: _____ (Project Manager)

LOCATION	TIME	SPECIES	HABITAT DESCRIPTION						OTHER NOTES					
			Bamboo understory	cattail	grass	Guttenweed	Pgrass Lgrass	Kudzu Bamboo	rock ledge	BL	MARES	SN [redacted]	MW	FO	HOOM	FL
8	4:00		✓	✓	✓				✓✓ RF	✓	✓	✓				
9	4:17					✓	P	✓	F	✓		✓				
10	4:24				✓	✓			F	✓		✓			mfish	

Quality Control: This form is complete (✓) & legible (✓).

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

Spectacle Lake

Dinner Lake

Highway 69

Highway 400

Mid Creek

obel Road

Shebeshekong Road

Simmes Lake

Highway 559 West

0 250 500 m

1:18,000

Legend

Potential Transmission Line
Proposed Route
North Substat o
Route Marker

Existing Features
City or Town
Hydro Station
Existing Transm sion Line
Highway
Major Road
Local Road

Re way
Trai
Contours(5m
Watercourse
F rst Nat ons Reserve

*Location of transmission line within the highway corridor s unknown at this time

Notes
1. Coordinate System NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario M nistry of Natural Resources Queen's Printer for Ontario 2012
3. magery Sources Esri DigitalGlobe GeoEye i-cubed USDA SGS, AEX, Getmapping Aerogrid IGN GP G S User Commun ty and the Parry Sound Geographic Society

QUE EC
NTARIO
STUDY AREA

Client/Pro ect
NIGIG POWER CORP.
HENVEY INLET WIND PROJECT

Figure No
21

DRAFT

te
Proposed Route - Photo Mosaic

April 2013
Pro ct No

Stantec

W:\active\60960770\drawing\MXD\Terrestrial\Field\Work\160960770_FieldMap_Tiled_PhotoMosaic_2013-04-01.mxd
Revised: 2013-04-01 By: awhite

Highway 400

Highway 400

Avro Arrow Road

Nobel Road

Portage Lake

Blair Creek

Simmes Lake

N

250 500 m

1:15,000

Source: ©DigitalGlobe, GeoEye, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

April 2013

Project No

Legend

Potential Transmission Line
- Proposed Route
- North Substation
- Route Marker

Existing Features
- City or Town
- Hydro Station
- Existing Transmission Line
- Highway
- Major Road
- Local Road
- Railway
- Trail
- Contours(5m)
- Watercourse
- First Nations Reserve

*Location of transmission line within the highway corridor is unknown at this time

Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.
3. Imagery Sources: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, GIS User Community and the Parry Sound Geographic Society

STUDY AREA

Client/Project
NIGIG POWER CORP.
HENVEY INLET WIND PROJECT

Figure No
22

DRAFT

Title
Proposed Route - Photo Mosaic

Stantec

W:\active\160860770\drawing\MXD\Terrestrial\FieldWork\160860770_FieldMap_Tiled_PhotoMosaic_20130401.mxd
Revised: 2013-04-01 By: awhite

Portage Lake

Parry Sound Drive

North Road

Robinson's Point

Mill Lake

Nobel Road

Highway 400

Highway 40

Calverley's Pond

Darlington's Lake

Darlington's Creek

Parry Sound Drive

Felsman Bay

Ireland Bay

Source: Esri, DigitalGlobe, GeoEye, i-cubed, ..., GEBCO, NOAA, ..., Aerogrid, IGN, IGP, and the GIS User Community

250 500 m

1:18,000

April 2013

Pro... No

Legend

Potential Transmission Line
Proposed Route
North Substation
Route Marker
Existing Features
City or Town
Hydro Station
Existing Transmission Line
Highway
Major Road
Local Road
Railway
Tra
Contours 5m
Watercourse
First Nations Reserve

*Location of transmission line within the highway corridor is unknown at this time

Notes
1 Coordinate System NAD 1983 UTM Zone 17N
2 Base features produced under license with the Ontario Ministry of Natural Resources - Queen's Printer for Ontario, 2012.
3 Imagery Sources Esri, DigitalGlobe, GeoEye, i-cubed, USDA, GGS, AEX, Getmapping, Aerogrid, IGN, IGP, GIS User Community, and the Parry Sound Geographic Society

QUE C
ONTARIO
STUDY AREA

Client/Project
NIGIG POWER CORP.
HENVEY INLET WIND PROJECT

Figure No
23

DRAFT

Title
Proposed Route - Photo Mosaic

Stantec

W:\active\60960770\drawing\MXD\Terrestial\FieldWork\160960770_FieldMap_Tile1_PhotoMosaic_20130401.mxd
Revised: 2013-04-01 By: ewhite

Mill Lake

Winch Lake

Dugall Rd

Lovell Lake

Louisa Street

Highway 518

Highway 400

Highway 00

McGowan Lake

Hunter Drive

Oastler Lake

Pine Drive

Oastler Park Drive

Richmond Lake

Bowes Street

250 0 500 m

1:15,000

Aerial Photography Courtesy of Aerogrid, IGN, IGP, and the GIS User Community

Legend

Potential Transmission Line
- Proposed Route
- North Substation
- Route Marker

Existing Features
- City or Town
- Hydro Station
- Existing Transmission Line
- Highway
- Major Road
- Local Road
- Railway
- rail
- Contours 5m
- Watercourse
- First Nations Reserve

*Location of transmission line within the highway corridor is unknown at this time

Notes

1. Coordinate System NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012
3. Imagery Sources Esri, DigitalGlobe, GeoEye, i-cubed, USDA, SGS, AEX, Getmapping, Aerogrid, IGN, IGP, GIS User Community, and the Parry Sound Geographic Society

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STUDY AREA

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April 2013

Project No.

Client/Project

NIGIG POWER CORP.
HENVEY INLET WIND PROJECT

Figure No.

24

DRAFT

Title

Proposed Route - Photo Mosaic

W:\active\60980770\drawing\MXD\Terrestrial\FieldWork1\60980770_FieldMap_Tiled_PhotoMosaic_2013-04-01_Revised_2013-04-01_By_mvhilla

McNutt Lake

Cochrane Lake

Highway 400

Highway 400

Oastler Park Drive

Foley

Wright Lake

Otter Lake

Highway 518

Oastler Lake Provincial Park

Oastler Park Drive

Murdock Lake

Oastler Lake

N

250 500 m

1:18,000

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, GIS User Community, and the GIS User Community

April 2013

Project No

Legend

Potential Transmission Line
- Proposed Route
- North Substation
- Route Marker

Existing Features
- City or Town
- Hydro Station
- Existing Transmission Line
- Highway
- Major Road
- Local Road
- Railway
- rail
- Contours 5m
- Watercourse
- First Nations Reserve

*Location of transmission line within the highway corridor is unknown at this time

Notes
1. Coordinate System NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources - Queen's Printer for Ontario, 2012
3. Imagery Sources Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, GIS User Community and the Parry Sound Geographic Society

STUDY AREA

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Client/Project
NIGIG POWER CORP.
HENVEY INLET WIND PROJECT

Figure No
25

DRAFT

Title
Proposed Route - Photo Mosaic

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Revised: 2013-04-01 By: awhite

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

Significant Observation Form

Project Number 160960824

Project Name: Wigg

Date: June 4, 2013

Field Personnel: A. Taylor / M. Cameron

Weather Conditions: Temp: 17 Wind: 3 Cloud: 50 PPT: — PPT in last 24 hrs: —

Species	Time	Evidence	UTM/location	Description and comments
BLTE	16:30	H	17T 525572 5075439	- flying / foraging over marsh
HOME♂	16:35	H	525677 5075425	- in marsh

Quality Control: This form is complete (__) & legible (__).

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

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Guelph, Ontario, Canada
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Fax: (519) 836-2493

Significant Observation Form

6 opm

Project Number 16
1

Project Name:

Date:

Field Personnel:

Weather Conditions: Temp: 4°C-16°C Wind: 1 2-3 Cloud: PPT: PPT in last rs:

Description of area searched (map attached):

Features found:

Species	Time	Evidence	UTM	Descri tion and comments
HE	0807			

519

Quality Control: This fo complete ( ) & legible ( ).

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

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N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Significant Observation Form

Project Number: 160960824 Project Name: Nagog

Date: June 5, 2013 Field Personnel: A. Taylor / M. C

Weather Conditions: Temp: 10-17°C Wind: 3 Cloud: 50% PPT: PPT in last 24 hrs: —

Species	Time	Evidence	UTM/location	Description and comments
WOTH	9:20	S	17T 527850 5074187	- Fem
PRWA♂	16:40	S	525816 5075460	- Displaying over large area - Likely unpaired male
COMI	16:55	S	525422 5075424	- displaying

Quality Control: This form is complete (__) & legible (__).

Signature: _____ Signature: _____

(Field Personnel) (Project Manager)

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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Significant Observation Form

Project Number: 160960824 Project Name: Nagagy

Date: Jne 6, 2013 Field Personnel: A. Taylor / M.

Weather Conditions: Temp: 10-15°C Wind: 3 Cloud: 80 PPT: — PPT in last 24 hrs: —

Species	Time	Evidence	UTM/location	Description and comments
EAWP	6:05	S	525853 5076584	-pop on woodlot
WOTH	6:33	S	526285 5076403	
BWHA	6:55	S	526328 5076374	-calling over wetland
WOTH	7:10	S	526250 5076545	
WOTH	8:39	S	527005 5076800	
CONI	9:20	H	527271 5076646	-flushed from rock barren
BWHA	15:05	S	526048 5076339	-Pop on forest -no nest observed
CONI	21:35	S	528011 5077074	-calling -poplar forest/ rock barren

Quality Control: This form is complete (__) & legible (__).

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

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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Project Name:

Field Personnel:

Conditions: Temp: 6-12 Wind: loud: PPT: PPT in last 24 hrs:

Description of area searched (map attached):

Features found: 17

Species	Time	Evidence	UTM	Description and comments
CAWA	0830	SM	0529895 5078530	
CAWA	0940	SM	0529822 5078608	
CAWA	1010	SM	0529511 5078475	
CAWA	1135	SM	0528616 5078303	

Quality Control: This [illegible] is co[illegible] & legible ( ).

Signature: [illegible] (Field Personnel)

Signature: _____ (Project Manager)

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

Significant Observation Form

Project Number: 160960824 Project Name: Nisg

Date: June 7, 2013 Field Personnel: R Taylor / M Cameron

Weather Conditions: Temp: -17° Wind: 2 Cloud: 50% PPT: — PPT in last 24 hrs: —

Species	Time	Evidence	UTM/location	Description and comments
WOTH	6:30	S	528464 5077137	
WOTH	8:05	S	528790 5076553	
Stick nest			529050 5075730	- in open marsh - Unoccupied
OSPY	12:30	S	529038 5075895	
WOTH	13:05	S	529713 5076698	

Quality Control: This form is complete (__) & legible (__).

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

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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

16 0.24

1

Project Name:

Field Personnel:

Temp: Wind: Cloud: PPT: PPT in last 24 hrs:

Conditions: 1 60

Description of area searched (map attached): M1 B1A

Features found: 1

Species	Time	Evidence	UTM	Description and comments
			5 8 0	
	8	M	27935 50 68	m W of this UTM
	7		5270.7 081001	
A			7.1. .71.	

Quality Control: This f... is ... plete (egible

Signature: _____ Signature: _____

(Field Personnel) (Project Manager)

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

Significant Observation Form

5:30 am - 2pm

Project Number: 160960824

Project Name: Nigig B

Date: Jun 8, 13

Field Personnel:

Weather Conditions: Temp: 8-18°C Wind: 1-2E Cloud: 100 -100 PPT: / PPT in last 24

Description of area searched (map attached): Area "B"

Features found:

Species	Time	Evidence	UTM	Description and comments
			1 T	
	0550		57 192	
			50 411	
	1111		7 m E F	
			50 0490 m	
B	1245pm	1 nest	5 869	
			5079345	
	1pm		528677	S O S 11
			9296	Black B)

P

Quality Control: This form is complete ( ) & legible ( ).

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

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

Significant Observation Form

Project Number: 1[illegible] Project Name: [illegible]

Date: Se[illegible] Field Personnel: [illegible]

Temp: [illegible] Wind: [illegible] Cloud: [illegible] PPT: [illegible] PPT in last 24 hrs: [illegible]

Weather Conditions:

Description of area searched (map attached):

Features found:

Species	Time	Evidence	UTM	Description and comments
na ing Tu	11:47a r30	OC .ke	2277 75058	adult, subm in shallow r inland sh/pon.
landings T e	1 10 pm r30 20	p OC n	671 07 9	adult on land, ap m m te
na pi u le	1:11 pm r30 201	pho ken OB	5 443	adult, b ki on l. in a e eaver ond
a ings r le	1 pm r 20	mo OB bef ke	47 6	adult, in very small inlan s e as led)
e-lined S ink	2:0	B pho taken	68 50	adult male bas ki
an in s ur	8:2 am 1	OC pho ken	73401	dult, b king, inland ll we and
andin s v e n t	y 27 am	B ta n	9 78465	d rbed, on Bec non Rd, hells empty st ll
bn ings e	220	OB, n	32316 78607	adult, king
andi s ur	May 13 OB pho 46 m not ken		529 5078037	adult kin, ve l o l e a
[redacted]	3 9:36	OC photo	[redacted]	male, as ing, po ntially b nnin to vel overland
nap o l Tu	3 01 11 a	OB hoto	3861 10	mati at wa rs sur
oo n as	ay 3 11 1 am	OB, pho ta n	819 8	wles up in a unise b
[redacted]	a 3 a 201 11.36	OB taken	[redacted]	adult ma e, bas ki
s	7 3	ke		adul , ki on n
la in Tu e	201 35am	OB taken	23089 076266	adult swimmin in ll r n shoa
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(Field Personne) (Project Manager)

REV: May, 08 FORM 33

a e 1 of 6

Species	Evidence	UTM	Description and comments
moo ree a e	1.08pm y 9 1	OB, photo dead fa n,	9 9 7798 6
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BLTU	4 01 11.	OB, no ictu	017 76721
TU	M 24 1 !3	B no icture	6 1 0 340
BLTU	May 20B 8:41	OB, photo m	99 1001
S	May 30 OB 8:	OB, no m ho	790 88
	!	OB, p o	523777 108
2 BLT	ay 0 B 105	OB, m	94 081008
BL	May 01 10:	OB, no ho	49
RLTU	May 3 131	OB, no pho	5 4 1034
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U	a 30	B, nop !	994 81431
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Quality Control: This is c e (egible ( ).

Signature: (Field Personnel)

Signature: (Project Manager)

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

Significant Observation Form

Project Number: [illegible] Project Name: [illegible]

Date: [illegible] Field Personnel: [illegible]

Weather Conditions: Temp: [illegible] Wind: [redacted] Cloud: [illegible] PPT: [illegible] PPT in last 24 hrs: [illegible]

Description of area searched (map attached):

Features found:

Species	Time	Evidence	UTM	Description and comments
Fi -li a..	une	OB too	8 72	ult le at clo b
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	:1 .	p graph		Road
L U	une	OB, camera	21103	1 in l; ki
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O L	June	heard	53074	a singing 'qu c th,
oli . d	. .013	singing	5 0 0	beer"
fl catcher	1.:02.	repeatedly		Bwi Brian Miller
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	1`16.			- with Mil
	une	OB, camera	0385	one, b king me
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		R d		

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Signature: [illegible] Signature: _____

(Field Personnel) (Project Manager)

ag ·

Species	Time	Evidence	UTM	Description and co ents
moo n Snake	June :48	ed pho ph	2 0 712	bas on Ground Is orner Road by wh it in th cka on
	Ju 1 20 7:37a	OB p grap	526691 5073341	adult in g fo etland nearly stepped on it, ra ed, didn t ike
em Wood wee	un 16.013 1.00pm	h sing p edly	2 0 6496	on h lsla by 2013 ch poin (doc ge)
	une 17 11 a	OBs pho	29478 3 3	in ed woods, hid under lo pp es on log, no ra e h
	une 1 013 am	p a n f several	32449 078909	at le t 4 o e were predated day, approx inimum of n
WP	une 1 013 53a	h sing a	2 53 493	near b bi poin un
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pl ll	Ju 2 00 4:20	OBs p rap	1043 50787	ib n ti on non ad, us sing in vehicl inter it
shoulde wk	June 4 013 9 am	e oaring	6 7 04	B wi nan Mill

Pa e o

Quality Control: This rm is co lete (__) legible ( ).

Signature: _____ Signature: _____

(Field Personnel) (Project Manager)

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

Significant Observation Form

Project Number: Project Name:

Date: Field Personnel:

Temp: Wind: Cloud: PPT: PPT in last 24 hrs:

Weather Conditions:

Description of area searched (map attached):

Features found:

Species	Time	Evidence	UTM	Description and comments
NI Common uh	y 29 2013	obs flying off of ground on our approach	0742 50787	with ine Mt James
whippoor will	May 29 2013 9:4pm	obs ing off of g on our a roach	977 078051	ing of round, Be non Road
EW W	M 29 013 6:04a	flying of round	282 578689	pair) ew off g ound g , ff of non Rd
ed- bellied n	May 14 2013 1	ho led	8 78 0	ad killed on B- ckanon
Eas n Spo Newt Red s e	M 22 2 13 :41a	p tog ph	5. 507:23	on e anon -obs w P. - R d
tern Spotted t s e	y 22 2013 7 ?	o raphed	5.4 5078 22	on non w ete
s	Ma 22 13 8:00a	photographed	50 :447	on B= anon -o.s R
tern ed eff s e	Ma 22 1 a	p to phed	.9 :67	on B- non w Read

Quality Control: This is co te ( ) & legible

Signature: Signature:

(Field Perso e) (Project Manager)

REV: May, 08 FORM 33

Species	Time	Evidence	UTM	Description and comments
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	22	pho raphed	.95.	adkille on Be anon
New d e	2 1 Do		5 8290	ad - w d

Quality Control: ...form is c...te ( ) incomplete

Signature: _____ Signature: _____

(Field Personnel) (Project Manager)

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Species

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Quality Control: This f is c lete & legible (

Signature:
(Field el)

Signature:
(Project Manager)

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70-1 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Significant Observation Form

Project Number: [illegible] Project Name: [illegible]

Date: [illegible] 012 Field Personnel: [illegible]

Weather Conditions: Temp: Wind: Cloud: PPT: PPT in last 24 hrs:

Description of area searched (map attached):

Features found:

Species	Time	Evidence	UTM	Description and comments
Bald Eagle	12 pm	[illegible] ved by Sarah R[illegible] & Janice	28322 078012	[illegible] adult, both below and at blade height, flying west w
Red-bellied nake [illegible] killed	Oct 2 2013 & Sam	road killed on Bec [illegible] non, by SRichard Jr.	529 12 [illegible]	not a fresh kill, perha [illegible] a week old
Bald Eagle	1:40 0+3 pm 2013	[illegible] by [illegible]ah Richard Janice Ball	526670 [illegible] 28	W[illegible] as , both perched in [illegible] ird : a White Pine tree on so [illegible] e of inlet, one
[illegible] camera 2	Oct 4 20[illegible] Friday	by [illegible] h Richard Janice Ball	[illegible] 60 5073300	also observed Sept. 25 2013 [illegible] ast week by SRichard Carol n Re [illegible] rson. In [illegible] ndy [illegible] y,

Quality Control: This form is complete ( ) & legible ( ).

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

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

Significant Observation Form

Project Number: [illegible] Project Name: [illegible]

Date: [illegible] Field Personnel: [illegible]

Weather Conditions: Temp: [illegible] Wind: [illegible] Cloud: [illegible] PPT: [illegible] PPT in last 24 hrs: [illegible]

Description of area searched (map attached): [illegible]

Features found: [illegible]

Species	Time	Evidence	UTM 17	Description and comments
Bald Eagle	Wed Sept. 11 2013	observed by S. Richer & C. Paterson	2031 0616	adult; soaring
Bald Eagle	Wed Sept. 11 2013	observed by S. Richer & C. Paterson	24 0060	2nd year bird, soaring around Mill Harbour
Bald Eagle	Wed Sept. 11 2013	observed by S. Richer & C. Paterson	526 14 542	2nd year bird perched on shore of inlet, different bird than previous immat.
Golden Eagle	Thurs Sept. 12 2013	photo of talons	6090 719	capace empty; plastron broken into 2 pieces approx 10m away
Bald Eagle	Fri Sept. 20 2013	observed by S. Richer & C. Paterson	23 078180	soaring - talon inlet area V.B. non landing
Bald Eagle	Sept 14 2013	observed by S. Richer & C. Paterson	1 32 817	soaring over head, slowly /SO + Ke River ~ 11:30
Bald Eagle	Sept 14th 2013	observed by S. Richer & C. Paterson	52 978 50 077	soaring over head by white head section, ~ 11:30

Quality Control: This form is complete ( ) & legible ( ).

Signature: [illegible] (Field Personnel) Signature: _____ (Project Manager)

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70-1 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Significant Observation Form

Project Number

Project Name:

Date: e — 1

Field Personnel:

Temp: Wind: Cloud: PPT: PPT in last 24 hrs:

Weather Conditions:

Description of area searched (map attached):

Features found:

Species	Time	Evidence	UTM	Description and comments
ald	10 pm		-7-0	4 y. bird, e
-a.l-	ept 17	b S icher	50 9	on or s/o of inl-t
-01		eMH		

Quality Control: Form is comple - (__) egible ( )

Signature: _____ Signature: _____

(Field Personnel) (Project Manager)

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70-1 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Significant Observation Form

Project Number: [illegible] Project Name: [illegible]

Date: Se [illegible] 3 Field Personnel: SR[illegible]

Weather Conditions: Temp: [illegible] Wind: Cloud: PPT: PPT in last 24 hrs:

Description of area searched (map attached):

Features found:

Species	Time	Evidence	UTM	Description and comments
[illegible] sau[illegible] s[illegible]	10:59 am	a shed snak[illegible] s[illegible]n;	523667 [illegible]1298	p[illegible]to [illegible]ken; length pe; [illegible]le keels; pattern
Garter snake	1:[illegible] pm	photo take living [illegible]e time	531926 5078963	crossing road, going E/NE (in area where [illegible] ..uently o erved in the [illegible]ll in past years

Quality Control: This form is co[illegible]plete ( ) [illegible]legible ( ).

Signature: [illegible] (Field Personnel) Signature: _____ (Project Manager)

Signifi ant Observation For

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

Project Number: 160990824 **Project Name:** Nigig/Henvey Inlet
Date: See below **Field Personnel:** Sarah Richer

Species	Species code	Date obs (year-mm-dd)	Time	Evidence	NAD83 Easting	NAD83 Northing	Description & Comments
Painted Turtle roadkilled	PATU	2013-06-21	2:43 PM	photograph	534051	5077695	roadkill
Northern Watersnake roadkill	NWAT	2013-05-22	3:52 PM	photograph	533605	5079472	roadkill
Snapping Turtle uvenile roadkill	SNTU	2013-05-23	6:21 AM	photograph	547561	5052455	juvenile roadkill
Snapping Turtle roadkill	SNTU	2013-05-23	6:34	photograph	547166	5053320	roadkill
Predated turtle nests		2013-05-23	7:01 AM	photograph	546938	5054154	Snapping Turtle eggs & other s ies
Unknown turtle s ecies roadkill	Unknown	2013-05-23	7:43 AM	photograph	544003	5058089	roadkill
Unknown turtle s ies roadkill	Unknown	2013-05-23	7:49 AM	photograph	543719	5058371	roadkill
Painted Turtle bones	PATU	2013-05-23	7:54 AM	photograph	543667	5058448	bones
Common Loon Nest	COLO	2013-05-23	8:25 AM	photograph	566435	5033965	Pair, adult at nest
Unknown turtle s ies roadkill	Unknown	2013-05-23	8:27 AM	photograph	542828	5059846	roadkill
Unknown turtle s ies roadkill	Unknown	2013-05-23	8:31 AM	photograph	542787	5059897	roadkill
Painted Turtle roadkill	PATU	2013-05-23	8:38 AM	photograph	542634	5060296	roadkill
Unknown turtle s cies roadkill	Unknown	2013-05-23	8:42 AM	photograph	542669	5060225	roadkill
Predated turtle nests		2013-05-23	8:58 AM	photograph	541947	5061927	Snapping Turtle eggs & other s ies
Blanding's Turtle roadkill	BLTU	2013-05-23	9:09 AM	photograph	541470	5063041	roadkill
Blanding's Turtle bab roadkill	BLTU	2013-05-23	9:10 AM	photograph	541458	5063070	baby roadkill
Painted Turtle roadkill	PATU	2013-05-23	9:12 AM	photograph	541453	5063082	roadkill
Blanding's Turtle roadkill	BLTU	2013-05-23	9:14 AM	photograph	541439	5063066	roadkill

Species	Species code	Date obs (year-mm-dd)	Time	Evidence	NAD83 Easting	NAD83 Northing	Description & Comments
Blanding's Turtle roadkill	BLTU	2013-05-23	9:16 AM	photograph	541460	5063023	roadkill
Painted Turtle roadkilled	PATU	2013-05-23	12:34 PM	photograph	566009	5034412	roadkill
Painted Turtle roadkill	PATU	2013-05-23	12:41 PM	photograph	565513	5034936	roadkill
Snapping Turtle roadkill	SNTU	2013-05-23	12:44 PM	photograph	565257	5035204	roadkill
Blanding's Turtle female roadkill	BLTU	2013-05-23	12:48 PM	photograph	565257	5035189	female roadkill
Snapping Turtle baby rescued	SNTU	2013-05-23	12:50 PM	photograph	565253	5035193	baby
Snapping Turtle roadkill	SNTU	2013-05-23	12:56 PM	photograph	565249	5035222	roadkill
Snapping Turtle roadkill	SNTU	2013-05-23	12:58 PM	photograph	565276	5035203	roadkill
Snapping Turtle roadkill	SNTU	2013-05-23	1:15 PM	photograph	564321	5036198	roadkill
Unknown turtle species roadkill	Unknown	2013-05-23	2:40 PM	photograph	558515	5041829	roadkill
Snapping Turtle juvenile roadkill	SNTU	2013-05-23	4:11 PM	photograph	555962	5044211	juvenile roadkill
Snapping Turtle roadkill	SNTU	2013-05-23	4:55 PM	photograph	554428	5045162	roadkill
Bullfrogs - two roadkill	BULL	2013-05-23	1:41 PM	photograph	562322	5038039	roadkill
Snapping Turtle roadkill	SNTU	2013-05-24	8:33 AM	photograph	566913	5033341	roadkill
Painted Turtle roadkill	PATU	2013-05-24	8:47 AM	photograph	565069	5035385	by roadkill frog
Painted Turtle - two	PATU	2013-05-24	5:08 PM	photograph	558085	5042267	basking on log by highway
Painted Turtle - two	PATU	2013-05-24	5:37 PM	photograph	551335	5046805	basking on log by highway
Painted Turtle roadkill	PATU	2013-05-25	7:51 AM	photograph	571552	5031183	roadkill
Painted Turtle roadkill	PATU	2013-05-30	5:21 PM	photograph	532949	5085122	Severely injured, barely alive; euthanized
Painted Turtle roadkill	PATU	2013-06-04	7:40 AM	photograph	533603	5082508	Severely injured, barely alive; euthanized
Snapping Turtle juvenile roadkill	SNTU	2013-06-09	8:37 AM	photograph	563350	5037120	juvenile roadkill
Snapping Turtle roadkill	SNTU	2013-06-09	8:49 AM	photograph	554605	5045088	roadkill
Snapping Turtle juvenile roadkill	SNTU	2013-06-09	8:57 AM	photograph	552204	5046325	juvenile roadkill

Species	Species code	Date obs (year-mm-dd)	Time	Evidence	NAD83 Easting	NAD83 Northing	Description & Comments
Snapping Turtle roadkill	SNTU	2013-06-09	9:03 AM	photograph	548781	5049515	roadkill
Snapping Turtle juvenile roadkill	SNTU	2013-06-09	9:17 AM	photograph	541713	5062471	juvenile roadkill
Painted Turtle roadkill	PATU	2013-06-09	9:24 AM	photograph	540267	5065700	roadkill
Blanding's Turtle juvenile roadkill	BLTU	2013-06-09	9:29 AM	photograph	539962	5066371	juvenile roadkill
Painted Turtle - two roadkill	PATU	2013-06-09	9:32 AM	photograph	539736	5066879	roadkill
Painted Turtle roadkill	PATU	2013-06-09	9:43 AM	photograph	534430	5076247	roadkill
Snapping Turtle nesting	SNTU	2013-06-10	10:40 AM	photograph	538815	5069576	on road shoulder
Blanding's Turtle bones	BLTU	2013-06-10	1:01 PM	photograph	540875	5064366	bones
Unknown turtle species roadkill	Unknown	2013-06-10	1:01 PM	photograph	540875	5064366	roadkill
Snapping Turtle juvenile roadkill	SNTU	2013-06-10	1:17 PM	photograph	541415	5063130	juvenile roadkill
Snapping Turtle juvenile roadkill	SNTU	2013-06-10	3:15 PM	photograph	538407	5069771	juvenile roadkill
Painted Turtle practice nest	PATU	2013-06-12	6:53 AM	photograph	547521	5052520	Spooked when I parked
Painted Turtle roadkill	PATU	2013-06-12	11:59 AM	photograph	550464	5047283	roadkill
Painted Turtle roadkill	PATU	2013-06-12	2:04 PM	photograph	559644	5040671	ro dkill
Painted Turtle roadkill	PATU	2013-06-12	2:42 PM	photograph	557922	5042434	roadkill
Blanding's Turtle juvenile roadkill	BLTU	2013-06-12	3:39 PM	photograph	539969	5066327	juvenile roadkill
[redacted]		2013-06-12	3:42 PM	photograph	[redacted]		Unknown sex, too damaged
Snapping Turtle roadkill	SNTU	2013-06-13	2:39 PM	photograph	556296	5043978	roadkill
Painted Turtle roadkill	PATU	2013-06-13	3:40 PM	photograph	533580	5079509	roadkill
Blanding's Turtle adult female roadkill	BLTU	2013-06-13	3:51 PM	photograph	533589	5081140	adult fem le roadkill
Snapping Turtle roadkill	SNTU	2013-06-13	4:06 PM	photograph	532604	5090178	roadkill
Snapping Turtle juvenile roadkill	SNTU	2013-06-14	8:59 AM	photograph	550426	5047310	juvenile roadkill
[redacted]		2013-06-14	10:27 AM	photograph	[redacted]		adult male roadkill
Snapping Turtle baby roadkill	SNTU	2013-06-14	4:53 PM	photograph	551654	5046565	baby roadkill

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Species	Species code	Date obs (year-mm-dd)	Time	Evidence	NAD83 Easting	NAD83 Northing	Description & Comments
Blanding's Turtle female with eggs roadkill	BLTU	2013-06-18	4:22 PM	photograph	533687	5081580	1 egg in remains; likely purposely hit
Predated turtle nests		2013-06-30	11:04 AM	photograph	534765	5075263	Snapping Turtle eggs & other species
Blanding's Turtle roadkill	BLTU	2013-06-30	1:08 PM	photograph	540281	5065697	roadkill
Snapping Turtle juvenile roadkill	SNTU	2013-06-30	2:19 PM	photograph	533603	5082505	juvenile roadkill
Snapping Turtle roadkill	SNTU	2013-06-30	2:32 PM	photograph	533420	5093083	Likely purposely killed
Blanding's Turtle roadkill	BLTU	2013-07-01	2:38 PM	photograph	541453	5063087	roadkill
Massasauga snake	MASN	2013-07-02	1:46 PM	photograph	559561	5040794	dult, h althy
Painted Turtle roadkill	PATU	2013-07-03	1:12 PM	photograph	571641	5031181	roadkill
Blanding's Turtle female roadkill	BLTU	2013-07-03	1:15 PM	photograph	571691	5031142	dult female roadkill
Snapping Turtle juvenile roadkill	SNTU	2013-07-03	4:08 PM	photograph	533088	5091677	juvenile roadkill
Five-lined Skink	FLSK	2013-07-04	5:20 PM	photograph	540599	5065047	adult
Blanding's Turtle juvenile roadkill	BLTU	2013-07-23	9:34 AM	photograph	532600	5090302	juvenile roadkill
Snapping Turtle roadkill	SNTU	2013-07-23	9:38 AM	photograph	532600	5090293	roadkill
Painted Turtle roadkill	PATU	2013-07-23	9:40 AM	photograph	532585	5090214	roadkill
Snapping Turtle roadkill	SNTU	2013-07-23	9:46 AM	photograph	532605	5090219	roadkill
Painted Turtle juvenile roadkill	PATU	2013-07-24	9:29 AM	photograph	559341	5040976	juvenile roadkill
Painted Turtle roadkill	PATU	2013-07-24	9:36 AM	photograph	559992	5040293	roadkill
Snapping Turtle juvenile roadkill	SNTU	2013-07-24	10:23 AM	photograph	563139	5037291	juvenile roadkill
Blanding's Turtle juvenile roadkill	BLTU	2013-07-24	3:41 PM	photograph	541474	5062984	juvenile roadkill
Painted Turtle roadkill	PATU	2013-07-24	3:47 PM	photograph	541448	5063100	roadkill
Painted Turtle roadkill	PATU	2013-07-24	4:24 PM	photograph	542113	5061489	roadkill

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

Significant Observation Form

Project Number 160960824 Project Name: Nigig/Henvey Inlet

Date: October 8-11 2013 Field Personnel: S Richer & C Paterson

Weather Conditions: Temp: Wind: Cloud: PPT: PPT in last 24 hrs:

Description of area searched (map attached):

Features found: The Bald Eagles recorded below do not include those observed during the hawk watch

Species	Time	Evidence	UTM	Description and comments
Bald Eagle	7:50am Oct 8 2013	observed by Sarah Richer & Carolyn Paterson	521312 5076396	flying at & below blade height, southeast, adult
Bald Eagle	10:00 Oct 8 2013	observed by Sarah Richer & Carolyn Paterson	525157 5078735	perched in White Pine on north shore briefly, then flew west, 4th year bird
Bald Eagle	7:40am Oct 10 2013	"	524574 5076114	3rd year bird, perched in Milton Bay after being observed flying at & below blade height
Bald Eagle	11:15 Oct 10 2013	"	526628 5081767	2nd year bird, flying west along inlet below blade height
Monarch (one individual)	10:53am Oct 11 2013	obs by Sarah Richer	522612 5077011	flying south; winds today ~5-10 km/hr from NE

Quality Control: This form is complete (__) & legible (__).

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

REV: May, 08 FORM 33

During B Surveys

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

Significant Observation Form

Project Number: 160960824 Project Name: Heuvy

Date: June 25, 2013 Field Personnel: A. Taylor & M. Cameron

Weather Conditions: Temp: 17-23°C Wind: 0 Cloud: 60% PPT: PPT in last 24 hrs: /

Species	Time	Evidence	UTM/location	Description and comments
WOTH	8:15	S	525846 5074763	
MASS	9:30		526179 5074681	~ 2' long
Northern watersnake	9:45		526287 5074687	~ 6" long
N. watersnake	11:50		526367 5074730	~1.5' long
SNTW x2	15:10		525666 5075046	

Quality Control: This form is complete (__) & legible (__).

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

Breeding Birds Survey

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Guelph, Ontario, Canada
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Fax: (519) 836-2493

Stantec

Significant Observation Form

Project Number: 160960824 Project Name: Henvey

Date: June 24, 2013 Field Personnel: A. Taylor / M. Cameron

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
	20°C	3	10%	—	showers

Species	Time	Evidence	UTM/location	Description and comments
WOTH	6:05	S	528268 5077534	
Spotted salamander	7:26	-egg mass ↳ empty	528025 5077065	
WOTH	8:10	S	528675 5076647	
WOTH	9:10	S	529243 5076250	
BLTU x2	7:40		528062 5077029	Mating Pair

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

Project Number

Date / Time:

Weather Conditions:

OTHER NOTES

For spruces

Quality Control: This form o plete (__) & legible (__).

Signature: _____ (Field Personnel)

Signature: _____ (Project Mana r)

Page of _____

Henvey Inlet 2
Sandy Bay
Potvin Point
Black Bay
Georgian Bay
Black Creek
250
500
m
1:15,000
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community
Legend
Potential Transmission Line
Proposed Route
North Substation
Route Marker
Existing Features
City or Town
Hydro Station
Existing Transmission Line
Highway
Major Road
Local Road
Railway
Trail
Contours(5m)
Watercourse
First Nations Reserve
*Location of transmission line within the highway corridor is unknown at this time
Stantec
Notes
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3. Imagery Sources Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, GIS User Community and the Parry Sound Geographic Society
QUEBEC
ONTARIO
STUDY AREA
Client/Project
NIGIG POWER CORP.
HENVEY INLET WIND PROJECT
Figure No.
9
DRAFT
Title
Proposed Route - Photo Mosaic
April 2013
Project No.
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Revised: 2013-04-01 By: awhite

ptiles

Nigig
160960824
B. Holden
Jun 4, 2013

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N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Reptile Survey Observation Form

Project Number: 160960824

Project Name: Nig i g

Date / Time: we 4, 2013

Field Personnel: A. Taylor / M. Cameron

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
	17	3	50	/	/

LOCATION	START/ END TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
17T 528432 5078333	12:30	SNTU	- Inlet	-basking near surface

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

Reptile Survey Observation Form

Project Number: 160960824
Project Name: Norring
Date / Time: June 5, 2013
Field Personnel: A. Taylor / M. Cameron

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
	10-17°C	3	50%		—

LOCATION	START/ END TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
17T 527554 5074934	9:40	BLTU	-marsh	-basking on stump
527079 5074581	13:20	BLTU	-marsh	-basking on log -very large adult
527045 5074586	13:25	BLTU	"	-basking on log -large adult
526939 5074627	13:31	BLTU		-basking on log -medium size adult
526416 5075293	6:35	BLTU		-basking on log in 2 PATU-below
"	16:35	PATU		"
525450 5075515	17:10	SNTU	"	-basking in water -large ~16cm long

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

REV: May 07 FORM 005

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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Reptile Survey Observation Form

Project Number: 160960824 Project Name: Nagog

Date / Time: June 6, 2013 Field Personnel: A. Taylor / M. Cameron

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
	10-15°C	3	80	—	—

LOCATION	START/ END TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
526319 5076654	8:00	BCTU x2	- marsh	- basking on log
527527 5077897	11:35	BCTU x 6 PATU x 8	- marsh	- basking on logs at in marsh
526590 5076142	13:30	BCTU x 4 PATU x 11	- marsh	- basking.

Quality Control: This form is complete (__) & legible (__).

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

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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Reptile Survey Observation Form

Project Number		Project Name:			
Date / Time:		Field Personnel:			
Weather Conditions:	Temp:	Wind:	Cloud: %	PPT:	PPT in last 24 hrs:

LOCATION	START/ END TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
17T 053357 0581 7	.30	Five-lined Skink	Rock outcrop	Juv
053 564 5081 58	636	Five-lined Skink	Rock outcrop	Juv - mid.
05 29888 5078613	0825	N. Red Bel Snake	Rock outcrop	~20cm
ej				
to	lat 130	atomic - resj		
	1	snake		ih

Quality Control: This fo com lete & legible

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

Page _____ of

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Revised: 2013-04-01 By: awhite

Straight Lake

Henvey Inlet 2

Batanga Creek

Georgian Bay

250 0 500 m

1:15,000

Sources: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

April 2013

Project No

Legend

Potential Transmission Line
- Proposed Route
- North Substation
- Route Marker

Existing Features
- City or Town
- Hydro Station
- Existing Transmission Line
- Highway
- Major Road
- Local Road
- Railway
- Trail
- Contours(5m)
- Watercourse
- First Nations Reserve

*Location of transmission line within the highway corridor is unknown at this time

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NIGIG POWER CORP.
HENVEY INLET WIND PROJECT

Figure No
8

DRAFT

Title
Proposed Route - Photo Mosaic

Nigig
160960824
B. Holden
Jun 6, 2013

Short

Stantec Consulting Ltd.
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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Reptile Survey Observation Form

Project Number: 160960824

Project Name: Nag 9

Date / Time: June 7, 2013

Field Personnel: A. Taylor / M. Cameron

Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
	10-17°C	2	50%	—	✓

LOCATION	START/ END TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
528569 5076631				
528897 5076644	9			
[redacted]	1	[redacted]	ter in bog	

Quality Control: This form is complete (__) & legible (__).

Signature: _____ (Field Personnel)

Signature: _____ (Project Manager)

Stantec Consulting Ltd.
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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Sta

Project Number

Date / Time:

Weather Conditions:

Wind:

2

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LOCATION

HABITAT DESCRIPTION

OTHER NOTES

1

052 5080 7 00 assessing Rattlesn. Park. 1 - We

key

1 - 5

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m. -site

52 7 5 78847 1 10 Milksnake

Uterop

15cm

Quality Control: This orm is complete & legible

Signature: (Field Personnel)

Signature: (Project Manager)

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Revised: 2013-04-01 By: awhite

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

Legend

Potential Transmission Line
- Proposed Route
- North Substation
- Route Marker

Existing Features
- City or Town
- Hydro Station
- Existing Transmission Line
- Highway
- Major Road
- Local Road
- Railway
- Trail
- Contours(5m)
- Watercourse
- First Nations Reserve

Sta

*Location of transmission line within the highway corridor is unknown at this time

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April 2013
Project No

Client/Project
NIGIG POWER CORP
HENVEY INLET WIND PROJECT

Figure No.
10

DRAFT

Title
Proposed Route - Photo Mosaic

Nigig
160960824
B. Holden
Jun 7, 2013

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

530am -2 m

0960824

Jun 8, 13

8-18°C 1-2 E 100-90-100

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LOCATION	START/ END TI E	SPECIES		OTHER NOTES
		assasi		~ 5- cm
05 0 4 711		landing Turtle	- made wet area (pond) Bekaran	not ful

Quality Control: This form is complete & legible (

Signature: _____ Signature: _____

(Field Personnel) (Project Manager)

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Revised: 2013-04-01 By: ewhite

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Georgian Bay

Henvey Inlet 2

*Location of transmission line with n the highway corridor is unknown at this time

Legend

Potential Transmission Line
- Proposed Route
- North Substation
- Route Marker

Existing Features
- City or Town
- Hydro Station
- Existing Transmission Line
- Highway
- Major Road
- Local Road
- Railway
- Trail
- Contours(5m)
- Watercourse
- First Nations Reserve

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250 500 m

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April 2013

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ONTARIO
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ent/Project
NIGIG POWER CORP.
HENVEY INLET WIND PROJECT

g re No
1

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e
Proposed Route - Photo Mosaic

Nigra
1609600824
B. Holden
Jun 8, 2013

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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

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1-18

17

9
7 005 6 ver (20 m

Quality Control: This form is complete (__) & legible (__).

Signature: _____ Signature: _____
(Fiel ersonnel) (Project Manager)

Bekanon Creek
Henvey Inlet 2
Highway 69
Britt Road
Legend
Potential Transmission Line
Proposed Route
North Substation
Route Marker
Existing Features
City or Town
Hydro Station
Existing Transmission Line
Highway
Major Road
Railway
Trail
Contours(5m)
Watercourse
First Nations Reserve
*Location of transmission line within the highway corridor is unknown at this time
STUDY AREA
QUEBEC
ONTARIO
250
500
m
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NIGIG POWER CORP.
HENVEY INLET WIND PROJECT
Figure No.
11
DRAFT
Title
Proposed Route - Photo Mosaic
April 2013
Project No.
W:\active\60980770\drawing\MXD\Terrestrial\Field\Work\160980770_FieldMap_Tiled_PhotoMosaic_20130401.mxd
Revised: 2013-04-01 By: awhite

Jun 18, 13

18, 13

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70-1 Southgate Drive
Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

Project Number: 60 824 201

Project Name: Mi,

Date / Time:

Field Personnel: B Iden

Weather Conditions: Wind: -1 °C Cloud: 1-3 PPT: 0-3

LOCATION	START/ END TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
~1km N of 1050		[redacted] Rattlesnake	ase a Jun	rec id not [redacted] tos
[redacted]				~ 9 for 8 rattle

Quality Control: This form is complete & legible ( ).

Signature: _____ (Fiel Personnel)

Signature: _____ (Project Manager)

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Revised 2013-06-11 By carolbertson

0 250 500 m

1:15,000

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June 2013
Project No

Legend

- Proposed Transmission Line
- North Substation
- Route Marker

Existing Features

- City or Town
- Hydro Station
- Existing Transmission Line
- Highway
- Major Road
- Local Road
- Railway
- Trail
- Contours(5m)
- Watercourse
- Municipal Boundary Upper
- Municipal Boundary Lower

ANSI

- ANSI Earth Science
- ANSI Life Science
- Candidate ANSI Earth Science
- Candidate ANSI Life Science
- Aggregate Site
- Significant Ecological Area

Wintering Area

- Deer Wintering Area Stratum 2
- Deer Yard (Stratum 1)
- Moose Late Wintering Area
- Wetland, Provincially Significant
- Wetland, Locally Significant
- Wetland Unevaluated
- Waterbody
- First Nations Reserve
- Conservation Reserve
- Forest Reserve
- Provincial Park

*Location of transmission line within the highway corridor is unknown at this time

Georgian Bay

QUEBEC

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Client/Project
NIGIG POWER CORP.
HENVEY INLET WIND PROJECT

Figure No
7

DRAFT

Title
Proposed Route - Field Map

13

BH

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B S - nd

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Guelph, Ontario, Canada
N1G 4P5
Tel: (519) 836-6050
Fax: (519) 836-2493

0600
1600

Reptile Survey Observation Form

Project Number 160960824 Project Name: Nisku

Date / Time: Jun 24, 13 Field Personnel: D. Holden

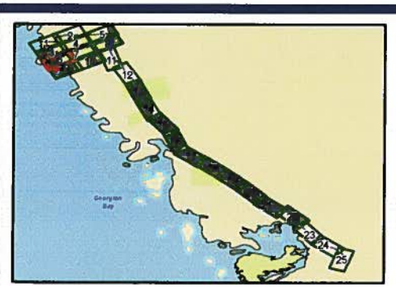
Weather Conditions:	Temp:	Wind:	Cloud:	PPT:	PPT in last 24 hrs:
	18-25	3 SW	0-20		RAIN

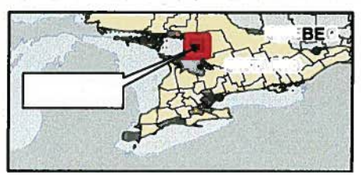
LOCATION	START/ END TIME	SPECIES	HABITAT DESCRIPTION	OTHER NOTES
			NO SAR	
			recorded	

Quality Control: This form is complete (__) & legible (__).

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

ntec





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Jun 25, 13

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		-		/	st 24 hrs:

			NO SAR recorded.	

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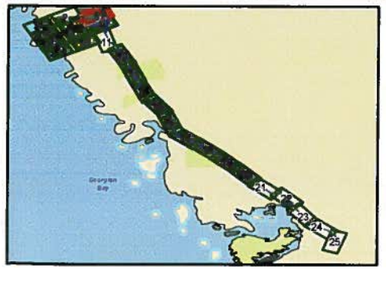

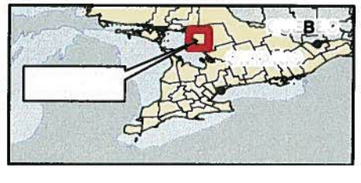
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05 34 073715		Hve Shark	Rock Barrens	Juvenile
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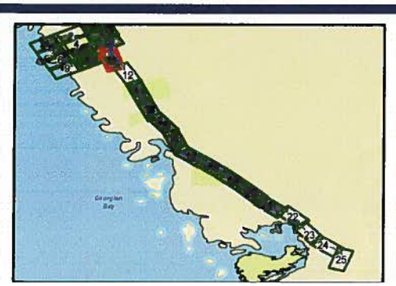

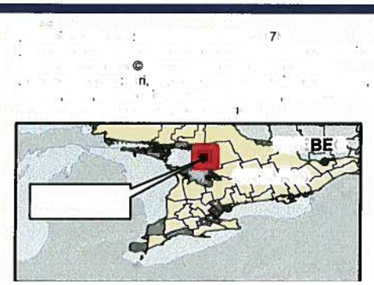
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Jun 25, 3

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			NO SAR recorded.	

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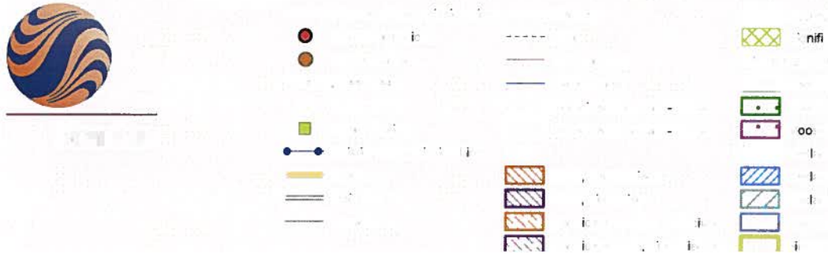

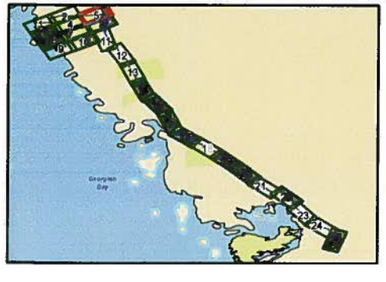

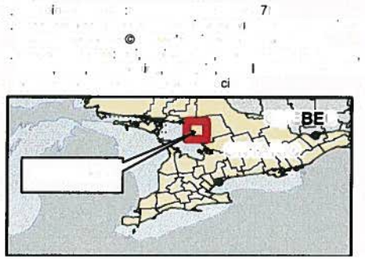
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160960824

Jun 27, 13

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0 est of	08	Rymedc Sk	Rock Berries Near Beaverpond	small 15-20cm
0527497 5075963	00	we d SKm	Rock Berries near Beaverpond	Sc 19
		N. Rusbatty marsh		
			GPS Cost Cerrge Beaverpond 1 Ke in care of BB route	

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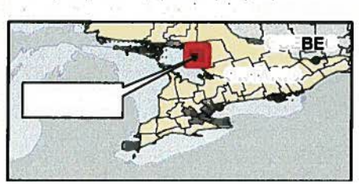
BE

27

N JJ
BH
BBS Rnd 2
Jan 27, 13

		Area A				First Visit	Second Visit
		Point Counts					
	Code	Site	Zone	Easting	Northing		
1	A1	PC201	17T	526702	5078127	4-Jun-13	24-Jun-13
2	A2	PC203	17T	526173	5078766	4-Jun-13	24-Jun-13
3	A3	PC204	17T	526055	5079242	4-Jun-13	24-Jun-13
4	A4	PC206	17T	525618	5079954	4-Jun-13	24-Jun-13
5	A5	PC207	17T	525194	5080508	4-Jun-13	24-Jun-13
6	A6	Marsh 1	17T	525860	5079203	4-Jun-13	24-Jun-13
7	A7	V1	17T	524660	5076679	16-Jun-13	26-Jun-13
8	A8	V2	17T	524778	5077164	16-Jun-13	26-Jun-13
9	A9	V3	17T	524635	5077455	16-Jun-13	26-Jun-13
10	A10	W01	17T	523585	5077154	7-Jun-13	21-Jun-13
11	A11	W02	17T	523365	5077772	7-Jun-13	21-Jun-13
12	A12	W03	17T	523059	5078254	7-Jun-13	21-Jun-13
13	A13	W04	17T	523133	5078765	7-Jun-13	21-Jun-13
14	A14	W05	17T	523320	5079223	7-Jun-13	21-Jun-13
15	A15	W06	17T	523693	5079796	7-Jun-13	21-Jun-13
		Area B					
		Point Counts					
		Site	Zone	Easting	Northing		
16	B1	PC216	17T	528618	5079111	7-Jun-13	20-Jun-13
17	B2	PC217	17T	528666	5079514	7-Jun-13	20-Jun-13
18	B3	PC218	17T	528361	5079267	7-Jun-13	20-Jun-13
19	B4	PC222	17T	528063	5079633	7-Jun-13	20-Jun-13
20	B5	PC233	17T	527935	5080068	7-Jun-13	20-Jun-13
21	B6	PC224	17T	527602	5080573	7-Jun-13	20-Jun-13
22	B7	PC225	17T	527283	5081020	7-Jun-13	20-Jun-13
23	B8	PC226	17T	527388	5080346	7-Jun-13	20-Jun-13
24	B9	PC232	17T	529216	5079462	8-Jun-13	25-Jun-13
25	B10	PC233	17T	528979	5079939	8-Jun-13	25-Jun-13
26	B11	PC234	17T	528937	5080074	8-Jun-13	25-Jun-13
27	B12	PC235	17T	528809	5080360	8-Jun-13	25-Jun-13
28	B13	PC236	17T	528682	5080494	8-Jun-13	25-Jun-13
29	B14	PC237	17T	528532	5080879	8-Jun-13	25-Jun-13
30	B15	PC238	17T	528438	5081043	8-Jun-13	25-Jun-13
31	B16	PC239	17T	528256	5081418	8-Jun-13	25-Jun-13
		Area C					
		Point Counts					
		Site	Zone	Easting	Northing		
32	C1	PC209 (forest)	17T	533565	5081897	6-Jun-13	18-Jun-13
33	C2	X1	17T	530013	5078948	6-Jun-13	20-Jun-13
34	C3	X2	17T	530558	5079625	6-Jun-13	20-Jun-13
35	C4	X3	17T	530764	5080346	6-Jun-13	20-Jun-13
36	C5	X4	17T	531110	5080754	6-Jun-13	20-Jun-13
		Area D					
		Point Counts					
		Site	Zone	Easting	Northing		
37	D1	PC210	17T	533332	5079992	6-Jun-13	18-Jun-13
38	D2	PC211	17T	532871	5078133	6-Jun-13	18-Jun-13
39	D3	PC212	17T	532092	5078861	6-Jun-13	18-Jun-13
40	D4	PC214	17T	529757	5078310	6-Jun-13	18-Jun-13
41	D5	D1 (?) T01	17T	529201	5077915	17-Jun-13	28-Jun-13
42	D6	D2 (?) T02	17T	529411	5077454	17-Jun-13	28-Jun-13
43	D7	D3 (?) T03	17T	529783	5077131	17-Jun-13	28-Jun-13
44	D8	D4 (?) T04	17T	529758	5076540	17-Jun-13	28-Jun-13

45	D9	D5 (?) T05	17T	530275	5076494	17-Jun-13	28-Jun-13
46	D10	D6 (?) T06	17T	530830	5076637	17-Jun-13	28-Jun-13
47	D11	D7 (?) T07	17T	530650	5077108	17-Jun-13	28-Jun-13
48	D12	Z1	17T	532946	5080021	4-Jun-13	18-Jun-13
49	D13	Z2	17T	532736	5079563	4-Jun-13	18-Jun-13
50	D14	Z3	17T	532482	5079124	4-Jun-13	18-Jun-13
51	D15	Z4	17T	532289	5078660	4-Jun-13	18-Jun-13
52	D16	Z5	17T	531989	5078254	4-Jun-13	18-Jun-13
53	D17	Z6	17T	531846	5077768	4-Jun-13	18-Jun-13
54	D18	Z7	17T	531934	5077271	4-Jun-13	18-Jun-13
55	D19	Z8	17T	532418	5077061	4-Jun-13	18-Jun-13
56	D20	Z9	17T	532493	5076815	4-Jun-13	18-Jun-13
57	D21	Z10	17T	532678	5076615	4-Jun-13	18-Jun-13
		Area E					
		Point Counts					
		Site	Zone	Easting	Northing		
58	E1	PC10 (swd-ash)	17T	524945	5075396	5-Jun-13	25-Jun-13
59	E2	PC11 (marsh/fom)	17T	525437	5075483	5-Jun-13	25-Jun-13
60	E3	PC12 (swt/fom)	17T	526475	5075295	5-Jun-13	25-Jun-13
61	E4	PC8 (jack pine/red maple)	17T	526691	5075204	5-Jun-13	
62	E5	PC9 (pine)	17T	527088	5075214	5-Jun-13	
63	E6	PC7 (mas/oa/swc)	17T	527537	5074800	5-Jun-13	
64	E7	PC15(fom/poplar,spruce)	17T	525853	5076584	6-Jun-13	27-Jun-13
65	E8	PC13 (jack pine)	17T	526185	5076403	6-Jun-13	27-Jun-13
66	E9	PC14 (swt)	17T	526451	5076545	6-Jun-13	27-Jun-13
67	E10	PC16 (lowland spruce forest)	17T	527005	5076650	6-Jun-13	27-Jun-13
68	E11	PC17 (pine barren)	17T	527537	5076352	6-Jun-13	27-Jun-13
69	E12	PC18 (pine barren)	17T	527765	5075981	6-Jun-13	27-Jun-13
70	E13	PC1 (fom-pin/maple/oak)	17T	528208	5077811	7-Jun-13	24-Jun-13
71	E14	PC2 (bog)	17T	529355	5075881	7-Jun-13	24-Jun-13
72	E15	PC5 (pine barren)	17T	528224	5077357	7-Jun-13	24-Jun-13
73	E16	PC6 (pine barren)	17T	528325	5076931	7-Jun-13	24-Jun-13
74	E17	PC3 (pine barren)	17T	528789	5076454	7-Jun-13	24-Jun-13
75	E18	PC4 (bog)	17T	529180	5076307	7-Jun-13	24-Jun-13
76	E19	U1	17T	526702	5073100	15-Jun-13	26-Jun-13
77	E20	U2	17T	526797	5073664	15-Jun-13	26-Jun-13
78	E21	U3	17T	526621	5074132	15-Jun-13	26-Jun-13
79	E22	U4	17T	526118	5074163	15-Jun-13	26-Jun-13
80	E23	U5	17T	525769	5073789	15-Jun-13	26-Jun-13
		Area F					
		Point Counts					
		Site	Zone	Easting	Northing		
81	F1	Y1	17T	523131	5076211	5-Jun-13	19-Jun-13
82	F2	Y2	17T	522657	5076058	5-Jun-13	19-Jun-13
83	F3	Y3	17T	522275	5075719	5-Jun-13	19-Jun-13
84	F4	Y4	17T	522185	5075226	5-Jun-13	19-Jun-13
85	F5	Y5	17T	522697	5075239	5-Jun-13	19-Jun-13
86	F6	Y6	17T	523055	5074843	5-Jun-13	19-Jun-13
87	F7	Y7	17T	523375	5074421	5-Jun-13	19-Jun-13
88	F8	Y8	17T	523625	5074854	5-Jun-13	19-Jun-13
89	F9	Y9	17T	523294	5075229	5-Jun-13	19-Jun-13
		Area MTO					
		Point Counts					
		Site	Zone	Easting	Northing		
	TL01	TL01	17T	533352	5083133	10-Jun-13	30-Jun-13
	TL02	TL02	17T	533608	5080784	10-Jun-13	30-Jun-13

TL03	TL03	17T	533598	5079442	10-Jun-13	30-Jun-13
TL04	TL04	17T	534022	5078237	10-Jun-13	30-Jun-13
TL05	TL05	17T	534484	5076512	10-Jun-13	30-Jun-13
TL06	TL06	17T	534777	5075251	10-Jun-13	30-Jun-13
TL07	TL07	17T	535302	5074024	10-Jun-13	30-Jun-13
TL08	TL08	17T	535857	5072690	10-Jun-13	30-Jun-13
TL09	TL09	17T	536392	5071361	10-Jun-13	30-Jun-13
TL10	TL10	17T	537424	5070118	10-Jun-13	30-Jun-13
TL11	TL11	17T	538725	5069753	10-Jun-13	30-Jun-13
TL12	TL12	17T	539262	5068545	10-Jun-13	30-Jun-13
TL13	TL13	17T	539804	5066946	10-Jun-13	30-Jun-13
TL14	TL14	17T	540363	5065728	10-Jun-13	30-Jun-13
TL15	TL15	17T	540917	5064486	10-Jun-13	30-Jun-13
TL16	TL16	17T	541501	5063176	10-Jun-13	1-Jul-13
TL17	TL17	17T	541923	5061938	10-Jun-13	1-Jul-13
TL18	TL18	17T	542520	5060781	10-Jun-13	1-Jul-13
TL19	TL19	17T	543198	5059275	12-Jun-13	1-Jul-13
TL20	TL20	17T	544066	5058149	12-Jun-13	1-Jul-13
TL21	TL21	17T	544941	5057268	12-Jun-13	1-Jul-13
TL22	TL22	17T	545943	5056213	12-Jun-13	1-Jul-13
TL23	TL23	17T	546861	5054959	12-Jun-13	1-Jul-13
TL24	TL24	17T	547179	5053667	12-Jun-13	1-Jul-13
TL25	TL25	17T	547588	5052527	12-Jun-13	1-Jul-13
TL26	TL26	17T	548249	5051310	12-Jun-13	1-Jul-13
TL27	TL27	17T	548537	5050090	12-Jun-13	1-Jul-13
TL28	TL28	17T	549682	5048337	12-Jun-13	2-Jul-13
TL29	TL29	17T	550511	5047371	12-Jun-13	2-Jul-13
TL30	TL30	17T	551720	5046617	12-Jun-13	2-Jul-13
TL31	TL31	17T	552831	5046119	12-Jun-13	2-Jul-13
TL32	TL32	17T	554042	5045491	12-Jun-13	2-Jul-13
TL33	TL33	17T	555293	5044758	12-Jun-13	2-Jul-13
TL34	TL34	17T	556389	5043937	12-Jun-13	2-Jul-13
TL35	TL35	17T	557486	5043000	12-Jun-13	2-Jul-13
TL36	TL36	17T	558569	5041932	12-Jun-13	2-Jul-13
TL37	TL37	17T	559620	5040841	12-Jun-13	2-Jul-13
TL38	TL38	17T	560672	5039756	13-Jun-13	2-Jul-13
TL39	TL39	17T	561721	5038694	13-Jun-13	3-Jul-13
TL40	TL40	17T	562680	5037847	13-Jun-13	3-Jul-13
TL41	TL41	17T	563686	5036949	13-Jun-13	3-Jul-13
TL42	TL42	17T	564664	5035972	13-Jun-13	3-Jul-13
TL43	TL43	17T	565706	5034882	13-Jun-13	3-Jul-13
TL44	TL44	17T	566384	5034183	13-Jun-13	3-Jul-13
TL45	TL45	17T	573208	5029393	13-Jun-13	3-Jul-13
TL46	TL46	17T	572989	5029419	13-Jun-13	3-Jul-13
TL47	TL47	17T	568664	5031923	13-Jun-13	3-Jul-13
TL48	TL48	17T	564173	5036499	13-Jun-13	3-Jul-13
TL49	TL49	17T	561024	5039420	13-Jun-13	3-Jul-13
TL50	TL50	17T	558024	5042490	13-Jun-13	3-Jul-13
TL51	TL51	17T	540651	5065085	13-Jun-13	4-Jul-13
TL52	TL52	17T	572659	5030346	14-Jun-13	4-Jul-13
TL53	TL53	17T	578307	5022423	14-Jun-13	4-Jul-13
TL54	TL54	17T	581614	5020363	14-Jun-13	4-Jul-13
TL55	TL55	17T	581561	5020624	14-Jun-13	4-Jul-13
TL56	TL56	17T	582693	5018280	14-Jun-13	4-Jul-13
TL57	TL57	17T	582226	5019032	14-Jun-13	4-Jul-13
TL58	TL58	17T	582508	5016960	14-Jun-13	4-Jul-13
TL59	TL59	17T	583330	5016881	14-Jun-13	4-Jul-13
TL60	TL60	17T	582287	5018595	14-Jun-13	4-Jul-13

Date	Time	Easting	Northing	Type of Survey	Observation	4-LTR CODE	SARA Status	# of individuals	Habitat	Other Notes
8-May-13					Bald Eagle	BAEA	NAR	1		
9-May-13					Bald Eagle	BAEA	NAR	1		
14-May-13					Bald Eagle	BAEA	NAR	1		
16-May-13	21:28	528490	5078335	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	3	sandy beach surrounded by inlet, and pine barrens	
16-May-13	21:49	529506	5078467	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	4	poplar, birch, pine woodlands	
16-May-13	22:12	532374	5078576	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	3	sandy pine barrens	
28-May-13	21:21	547835	5052136	Crepuscular Survey	Common Nighthawk	CONI	THR	1	forest	
29-May-13	6:04	532282	5078689		Eastern Wood Pewee	EAWP	SC-NS	1		
29-May-13	21:28	530743	5078733		Common Nighthawk	CONI	THR	1		
29-May-13	21:39	528490	5078335	Crepuscular Survey	Common Nighthawk	CONI	THR	3	forest	
29-May-13	21:39	528490	5078335	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	6	forest	
29-May-13	21:54	528977	5078051		Eastern Whip-poor-will	WHIP	THR	1		
29-May-13	21:56	529520	5077966	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1	forest/swamp/marsh/bog/ rock/pine barren	
29-May-13	22:09	530146	5078785	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1	forest	
29-May-13	22:21	531193	5078785	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1	forest/swamp/beaver pond	
29-May-13	22:45	532289	5078663	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	2	forest	
29-May-13	22:48	532289	5078663	Crepuscular Survey	Common Nighthawk	CONI	THR	1	Forest	
4-Jun-13	5:22	523946	5080021	point count	Wood thrush	WOTH	THR-NS	1		only THR in NS?
4-Jun-13	5:50	532736	5079563	point count	Eastern wood pewee	EAWP	estricted Specie	1	-	
4-Jun-13	5:50	532736	5079563	point count	Wood thrush	WOTH	THR-NS	1		
4-Jun-13	6:16	532482	5079124	point count	Wood thrush	WOTH	estricted Specie	1	-	
4-Jun-13	6:22	526328	5078519		Great Blue Heron Heronry					Nesting colony in the beaver pond to the west of UTM, several nests observed
4-Jun-13	7:03	531989	5078254	point count	eastern wood pewee	EAWP	SC-NS	1		
4-Jun-13	8:07	525934	5079390		Eastern Wood Pewee	EAWP	estricted Specie	1	-	
4-Jun-13	8:57	532418	5077061	point count	Canada Warbler	CAWA	estricted Specie	1	-	
4-Jun-13	9:32	532506	5076804		Red Shouldered Hawk	RSHA	NAR	1		
4-Jun-13	9:43	532493	5076815	point count	Canada Warbler	CAWA	THR	1		
4-Jun-13	10:06	532678	5076615	point count	Canada Warbler	CAWA	THR	3		
4-Jun-13	11:46	524603	5086730		Canada Warbler	CAWA	THR	1		
4-Jun-13		see map			Great Gray Owl	GGOW	NAR	1		Freshly molted feather in crack of rocks
4-Jun-13	16:30	525572	5075439	area Search	Black tern	BLTE	NAR	1		H, flying/foraging over marsh
4-Jun-13	16:35	5255677	5075425		Hooded Merganser	HOME		1		male, H, in marsh
5-Jun-13	16:40	525816	5075460		Prairie Warbler	PRWA	NAR	2	rock barren/wetland	displaying over large area, likely unpaired male
5-Jun-13	6:25	522657	5076058	point count	Canada Warbler	CAWA	THR	2		
5-Jun-13	7:00	522275	5075719	point count	Canada Warbler	CAWA	THR	1		
5-Jun-13	8:10	522697	5075239	point count	Canada Warbler	CAWA	THR	2		
5-Jun-13	9:20	527550	5074187		Wood Thrush	WOTH	THR-NS	1	Forest	
5-Jun-13	10:17	523294	5075229	point count	Canada Warbler	CAWA	THR	3		
5-Jun-13	16:55	525422	5075424		Common Nighthawk	CONI	THR	1		
5-Jun-13	22:00	527926	5077992	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	7	Rock barren / forest	
5-Jun-13	22:05	524605	5076092	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	11	Rock barren / forest	
5-Jun-13		527926	5077992	Crepuscular Survey	Common Nighthawk	CONI	THR	1	Rock barren / forest	
6-Jun-13	6:05	530013	5078948		Canada Warbler	CAWA	THR	2		
6-Jun-13	6:05	525853	5076584		Eastern Wood Pewee	EAWP	SC-NS	1		
6-Jun-13	6:30	526185	5076403	point count	Wood thrush	WOTH	THR-NS	1		
6-Jun-13	6:35	526285	5076403		Wood Thrush	WOTH	THR-NS	1		
6-Jun-13	7:08	526451	5076545	point count	Canada Warbler	CAWA	THR	1		
6-Jun-13	7:10	526250	5076545		Wood Thrush	WOTH	THR-NS	1		
6-Jun-13	7:25	530558	5079625		Canada Warbler	CAWA	THR	1		
6-Jun-13	8:07	532092	5078861	point count	Eastern wood pewee	EAWP	SC-NS	1		
6-Jun-13	8:24	527005	5076650	point count	Canada Warbler	CAWA	THR	1		
6-Jun-13	8:30	529895	5078530		Canada Warbler	CAWA	THR	1		
6-Jun-13	8:39	527005	5076800		Wood Thrush	WOTH	THR-NS	1		
6-Jun-13	8:43	530764	5080346	Point Count	Olive-sided flycatcher	OSFL	THR	1		
6-Jun-13	9:20	527271	5076646		Common Nighthawk	CONI	THR	1		
6-Jun-13	9:30	531110	5080754	point count	Canada Warbler	CAWA	THR	1		
6-Jun-13	9:40	529822	5078608		Canada Warbler	CAWA	THR	1		
6-Jun-13	10:10	529511	5078475		Canada Warbler	CAWA	THR	1		

Date	Time	Easting	Northing	Type of Survey	Observation	4-LTR CODE	SARA Status	# of individuals	Habitat	Other Notes
6-Jun-13	11:35	528616	5078303		Canada Warbler	CAWA	THR	1		
6-Jun-13	12:02	530742	5080510		Olive-sided flycatcher	OSFL	THR	1		
6-Jun-13	21:35	528011	5077974		Common Nighthawk	CONI	THR	1		
7-Jun-13	6:30	528464	5077137		Wood Thrush	WOTH	THR-NS	1		
7-Jun-13	7:15	523365	5077772		canada Warbler	CAWA	THR	1		
7-Jun-13	7:44	528209	5078949		Canada Warbler	CAWA	THR	1		
7-Jun-13	7:54	523059	5078254		Canada Warbler	CAWA	THR	2		
7-Jun-13	8:05	528790	5076553		Wood Thrush	WOTH	THR-NS	1		
7-Jun-13	8:40	527935	5080068		Canada Warbler	CAWA	THR	1		
7-Jun-13	8:52	523241	5079024		Common Nighthawk	CONI	THR	1		
7-Jun-13	9:37	527097	5081001		Canada Warbler	CAWA	THR	1		
7-Jun-13	11:48	523238	5078846		Common Nighthawk	CONI	THR	1		
7-Jun-13	12:00	529050	5075730		Stick Nest	OSPR			open marsh	Osprey using the area, potentially an Osprey nest, though use unknown.
7-Jun-13	12:30	529038	5075895		Osprey	OSPR				
7-Jun-13	13:05	529713	5076698		Wood Thrush	WOTH	THR-NS	1		
7-Jun-13	13:24	527818	5078710		Canada Warbler	CAWA	THR	1		
8-Jun-13	5:50	529192	5079411		Canada Warbler	CAWA	THR	1		
8-Jun-13	11:11	527905	5080490		Canada Warbler	CAWA	THR	1		
8-Jun-13		529216	5079462		Canada Warbler	CAWA	THR	1		
15-Jun-13	7:00	area E		area Search	Caspian Tern	CATE	NAR	11		habitat
15-Jun-13	8:00	526765	5073697	point count	Canada Warbler	CAWA	estricted Specie	1	-	
15-Jun-13	8:00	526797	5073664	point count	Canada Warbler	CAWA	THR	1		
15-Jun-13	8:48	526621	5074132	point count	Canada warbler	CAWA	THR	1	tamarack sedge fen	
15-Jun-13	9:35	526118	5074163	point count	Canada Warbler	CAWA	THR	1	marsh meadow/conifer forest	
15-Jun-13	10:19	525769	5073789	Point count	Canada Warbler	CAWA	THR	2	forest	
16-Jun-13	9:47	524778	5077164	point count	Canada warbler	CAWA	THR	3		
16-Jun-13	10:13	524635	5077455	Point count	Canada Warbler	CAWA	THR	1		
16-Jun-13	13:00	522285	5076496		Eastern Wood Pewee	EAWP	SC-NS	1		
17-Jun-13	5:45	529201	5077915	point count	Canada Warbler	CAWA	THR	3		
17-Jun-13	6:10	532871	5078133	point count	Canada Warbler	CAWA	THR	1		
17-Jun-13	6:36	529783	5077131	point count	Canada Warbler	CAWA	THR	2		
17-Jun-13	8:22	503275	5076494	point count	Canada Warbler	CAWA	THR	1		
17-Jun-13	9:07	530830	5076637	point count	Canada Warbler	CAWA	THR	2		
17-Jun-13	10:15	530650	5077108	point count	Canada Warbler	CAWA	THR	1		
17-Jun-13	21:50	533626	5082442	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	2		
17-Jun-13	22:01	534069	5077650	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1		
17-Jun-13	22:12	535685	5072881	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1		
17-Jun-13	22:20	538955	5069441	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1		
17-Jun-13	22:30	540718	5064706	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1		
17-Jun-13	22:40	542710	5060124	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	2	forest and rock barrens	
17-Jun-13	22:50	545810	5056216	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1	Rock barren / forest	
17-Jun-13	23:01	547835	5052136	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1		
17-Jun-13	23:11	550947	5047088	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1	Forest	
17-Jun-13	23:22	555384	5044617	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1	Forest	
18-Jun-13	5:54	523946	5080021	point count	Canada Warbler	CAWA	THR	1		
18-Jun-13	5:54	523946	5080021	point count	Wood Thrush	WOTH	THR-NS	1		
18-Jun-13	6:15	532736	5079563	point count	Wood Thrush	WOTH	THR-NS	1		
18-Jun-13	7:16	531989	5078254	point count	Wood Thrush	WOTH	THR-NS	1		
18-Jun-13	7:39	531846	5077768	point count	Canada Warbler	CAWA	THR	1		
18-Jun-13	8:48	532418	5077061	point count	Canada Warbler	CAWA	THR	1		
18-Jun-13	9:07	532493	5076815	point count	Canada Warbler	CAWA	THR	1		
18-Jun-13	9:26	532678	5076615	point count	Canada Warbler	CAWA	THR	2		
18-Jun-13	11:53	532753	5079493		Eastern Wood Pewee	EAWP	SC-NS	1		
18-Jun-13	22:20	576285	5024876	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	1	forest	
18-Jun-13	22:29	562745	5037659	Crepuscular Survey	Eastern Whip-poor-will	WHIP	THR	2	Forest	
19-Jun-13	6:30	523131	5076211	Point Count	Canada Warbler	CAWA	THR	1		
19-Jun-13	6:30	Area F		area Search	Caspian Tern	CATE		2		habitat
19-Jun-13	6:51	522657	5076058	Point Count	Canada Warbler	CAWA	THR	1		
19-Jun-13	7:22	522275	5075719	Point count	Canada Warbler	CAWA	THR	1		

Date	Time	Easting	Northing	Type of Survey	Observation	4-LTR CODE	SARA Status	# of individuals	Habitat	Other Notes
19-Jun-13	7:56	522185	5075226	point count	Eastern wood pewee	EAWP	SC-NS	1		
19-Jun-13	8:29	522697	5075239	Point count	Canada Warbler	CAWA	THR	1		
19-Jun-13	10:27	523294	5075229	Point count	Canada Warbler	CAWA	THR	1		
20-Jun-13	6:00	Area B		area search	Eastern wood-pewee	EAWP	SC-NS	1		singing male
20-Jun-13	6:15	530010	5078948	point count	yellow rail	_YERA	SC	1	meadow marsh	Unverified
20-Jun-13	7:29	530558	5079625	point count	Canada warbler	CAWA	THR	1		
20-Jun-13	7:29	530558	5079625	Point count	Olive-sided flycatcher	OSFL	THR	1		
20-Jun-13	7:45	530563	5079619		Olive-sided flycatcher	OSFL	THR	1		
20-Jun-13	9:03	531110	5080754	Point count	Canada Warbler	CAWA	THR	3	marsh	
20-Jun-13	9:03	531110	508754	point count	Olive-sided flycatcher	OSFL	THR	1	marsh/forest	
21-Jun-13	6:30	Area A		area search	Canada warbler	CAWA	THR	2		singing male
24-Jun-13	5:45	area E		Area Search	Wood Thrush	WOTH	THR-NS	1		
24-Jun-13	6:05	528268	5077534	Breeding Bird PC	Wood Thrush	WOTH	THR-NS	1		
24-Jun-13	8:10	528675	5076647	Breeding Bird PC	Wood Thrush	WOTH	THR-NS	1		
24-Jun-13	9:30	529143	5076250	Breeding Bird PC	Wood Thrush	WOTH	THR-NS	1		
25-Jun-13	5:40	Area E	Area Search		Wood Thrush	WOTH	THR-NS	1		
25-Jun-13	5:50	Area B		Area Search	Common Nighthawk	CONI	THR	1		observed
25-Jun-13	8:15	525846	5074763	Breeding Bird PC	Wood Thrush	WOTH	THR-NS	1		
25-Jun-13		528430	5081360	Breeding Bird PC	Canada Warbler	CAWA	THR	1		
25-Jun-13		528597	5081266	Breeding Bird PC	Canada Warbler	CAWA	THR	1		
25-Jun-13		528809	5080360	Breeding Bird PC	Canada Warbler	CAWA	THR	1		
25-Jun-13		528979	5079939	Breeding Bird PC	Canada Warbler	CAWA	THR	1		
26-Jun-13	5:30	Area A		Area Search	Caspian Tern	CATE				observed
26-Jun-13	8:30				Canada Warbler	CAWA	THR	1		
27-Jun-13	5:45	Area E		Area Search	Canada Warbler	CAWA	THR	1		singing male
28-Jun-13	5:55	Area A		Area Search	Wood thrush	WOTH	THR-NS	1		singing male
28-Jun-13	9:26	530830	5076637	point count	Eastern wood pewee	EAWP	SC-NS	1		
28-Jun-13	9:50	530650	5077108	point count	Eastern wood pewee	EAWP	SC-NS	1		
7-Jul-13	6:30	542574	5060848		Great Blue Heron Heronry	GTBH				Five nests with young. MTO corridor
6-Aug-13		563092	5057253		Eastern Wood Pewee	EAWP	SC-NS	1		
8-Aug-13		565521	5052335		Olive-sided flycatcher	OSFL	THR	2		
9-Aug-13					Eastern Wood Pewee	EAWP	SC-NS	1		
10-Aug-13					Eastern Whip-poor-will	WHIP	THR	1		
11-Sep-13		520317	5076136		Bald Eagle	BAEA	NAR	1		
11-Sep-13		524365	5076080		Bald Eagle	BAEA	NAR	1		
11-Sep-13		526214	5077542		Bald Eagle	BAEA	NAR	1		
13-Sep-13		528352	5078180		Bald Eagle	BAEA	NAR	1		
14-Sep-13		521032	5081722		Bald Eagle	BAEA	NAR	1		
14-Sep-13		525978	5077077		Bald Eagle	BAEA	NAR	1		
17-Sep-13	16:00	527290	5077954		Bald Eagle	BAEA	NAR	1		
2-Oct-13	12:30	528322	5078012		Bald Eagle	BAEA	NAR	1		
2-Oct-13	12:40	526670	5077218		Bald Eagle	BAEA	NAR	2		Pair, one male and one female perched together both adults
8-Oct-13	7:50	521312	5076396		Bald Eagle	BAEA	NAR	1		
8-Oct-13	10:00	528157	5078735		Bald Eagle	BAEA	NAR	1		
10-Oct-13	7:40	524574	5076114		Bald Eagle	BAEA	NAR	1		
10-Oct-13	11:15	526628	5081767		Bald Eagle	BAEA	NAR	1		
15-May-03					Bald Eagle	BAEA	NAR	1		
10-Aug-03					Eastern Wood Pewee	EAWP	SC-NS	1		

Obs #	Location/Utm						Observation	SARA Status	4-LTR CODE	# of individuals	Habitat	Other Notes	Weather				
	Date	Time	Zone	Easting	Northing	Type of Survey							Temp	Wind	Cloud	precipitation	last 24 hrs?
	22-Apr-13		17T	528097	5077355		Blandings Turtle	THR	BLTU			large adult	10-14	4-Mar	0-20	None	None
	30-Apr-13	11:47	17T	522773	5075058		Snapping Turtle	SC	SNTU		inland marsh/pond	adult submerged					
	30-Apr-13	12:10	17T	522671	5074966		Blandings Turtle	THR	BLTU		on land about a metre from water	adult					
	30-Apr-13	13:11	17T	522446	5074984		Snapping Turtle	SC	SNTU		Large beaver pond	basking on log					
	30-Apr-13	13:50	17T	522347	5075863		Blandings Turtle	THR	BLTU		small inland pool						
	30-Apr-13	14:00	17T	522468	5075992		Five-lined skink	SC	FLSK			adult female basking					
	30-Apr-13		17T	522671	5074966		Blandings Turtle	THR	BLTU				19	3	15	None	Rain
	30-Apr-13		17T	522468	5075992		Five-lined skink	SC	FLSK				19	3	15	None	Rain
	30-Apr-13		17T	522773	5075058		Snapping Turtle	SC	SNTU				19	3	15	None	Rain
	30-Apr-13		17T	522514	5074861		Snapping Turtle	SC	SNTU				19	3	15	None	Rain
	1-May-13	8:22	17T	525556	5073401		Blandings Turtle	THR	BLTU		small inland wetland	adult basking					
	1-May-13		17T	525556	5073401		Blandings Turtle	THR	BLTU				18	3-4	15-80	None	None
	1-May-13		17T	530509	5078763		Blandings Turtle	THR	BLTU				18	3-4	15-80	None	None
	2-May-13	15:30	17T	532316	5078607		Blandings Turtle	THR	BLTU			adult basking					
	2-May-13	16:40	17T	529450	5078037		Blandings Turtle	THR	BLTU			adult basking					
	2-May-13		17T	532316	5078607		Blandings Turtle	THR	BLTU				20	2-3	10	None	None
	2-May-13		17T	529532	5078465		Blandings Turtle	THR	BLTU		beckanon road	nest remains	20	2-3	10	None	None
	3-May-13	9:36	17T	Exact location will not be made public due to threat of poaching			Restricted Species	-	-			-					
	3-May-13	11:30	17T	523861	5081045		Snapping Turtle	SC	SNTU		pond/marsh	pair of turtles mating at surface					
	3-May-13	11:36	17T	Exact location will not be made public due to threat of poaching			Restricted Species	-	-			-					
	3-May-13		17T	530509	5078763		Blandings Turtle	THR	BLTU		pond	same pond as observation May 1	20	3-4	5	None	Light rain
	3-May-13		17T	523861	5081045		Snapping Turtle	SC	SNTU	2		mating	20	3-4	5	None	Light rain
	3-May-13		17T	Exact location will not be made public due to threat of poaching			Restricted Species	-	-			-	20	3-4	5	None	Light rain
	3-May-13		17T	Exact location will not be made public due to threat of poaching			Restricted Species	-	-			-	20	3-4	5	None	Light rain
	7-May-13	15:30	17T	529576	5078224		Blandings Turtle	THR	BLTU			adult basking on road					
	7-May-13		17T	529516	5078224		Blandings Turtle	THR	BLTU				23	0-1	0	None	None
	8-May-13	8:35	17T	523089	5076266		Blandings Turtle	THR	BLTU			adult swimming in shallows near shore					
	8-May-13		17T	523089	5076266		Blandings Turtle	THR	BLTU				21	0-1	0	None	None
	9-May-13	10:31	17T	527183	5081709		Massassauga Rattlesnake	THR	MASS		tall dry grassy floodplain area	dull and dusty looking snake					
	9-May-13		17T	527183	5081709		Massassauga Rattlesnake	THR	MASS				22	0	0	None	None
	14-May-13	12:13	17T	525263	5075698		Massassauga Rattlesnake	THR	MASS			coiled up and resting (temp 7C)					
	14-May-13		17T	525263	5075698		Massassauga Rattlesnake	THR	MASS		Milton's Bay		9-10	2	100	None	None
	15-May-13	12:06	17T	526936	5077230		Massassauga Rattlesnake	THR	MASS			Juvenile basking					
	15-May-13	13:35	17T	532379	5078851		Blandings Turtle	THR	BLTU			dead, juvenile or sub-adult					
	15-May-13		17T	532381	5078849		Blandings Turtle	THR	BLTU			remains of subadult	7-15	2-4	0-100	None	None
	15-May-13		17T	526936	5077230		Massassauga Rattlesnake	THR	MASS			yearling	7-15	2-4	0-100	None	None
	16-May-13	9:00	17T	524895	5080998		Snapping Turtle	SC	SNTU			adult basking on a log					
	16-May-13	10:06	17T	527032	5081612		Massassauga Rattlesnake	THR	MASS		grassy floodplain	basking on a log					
	16-May-13	10:26	17T	526870	5081680		Massassauga Rattlesnake	THR	MASS		grassy floodplain	adult					
	16-May-13		17T	526870	5081680		Massassauga Rattlesnake	THR	MASS			adults	6	2-3	0-100	None	None
	16-May-13		17T	527032	5081612		Massassauga Rattlesnake	THR	MASS			adults	6	2-3	0-100	None	None
	16-May-13		17T	524895	5080998		Snapping Turtle	SC	SNTU		end of migration transect 15		6	2-3	0-100	None	None
	24-May-13	10:47	17T	525143	5077208		Massassauga Rattlesnake	THR	MASS		rock barrens	adult basking in lichen/rock/moss					
	24-May-13	11:25	17T	525017	5076731		Blandings Turtle	THR	BLTU		shore and water in inlet	adult					
	24-May-13	16:33	17T	566913	5033340		Snapping Turtle	SC	SNTU		highway/wetland	on highway, moved to wetland					
	25-May-13	8:41	17T	524965	5081001		Blandings Turtle	THR	BLTU		pond/marsh	adult basking with other turtles					
	30-May-13	8:57	17T	523970	5080884		Massassauga Rattlesnake	THR	MASS			yearling, very tiny and quick					
	30-May-13	9:14	17T	523777	5081083		Massassauga Rattlesnake	THR	MASS			adult, very fat, possibly gravid female?					
	30-May-13	10:55	17T	524943	5081008		Blandings Turtle	THR	BLTU	2		adults basking on log					
	30-May-13	10:58	17T	524955	5081008		Blandings Turtle	THR	BLTU	1	grassy area	adult basking on grassy hummock					
	30-May-13	10:59	17T	524929	5081034		Blandings Turtle	THR	BLTU	2		adult basking on a log					
	30-May-13	11:07	17T	524936	5081023		Blandings Turtle	THR	BLTU	2		adults basking on log					
	30-May-13	11:37	17T	523994	5081431		Blandings Turtle	THR	BLTU		mainland to Key River	adult moving from land to water					
	4-Jun-13	10:50	17T	524938	5080971	Reptile Survey	Blandings Turtle	THR	BLTU	1	Fairly open beaver pond	Very large for species	4 -16	1 to 4	5-10%	none	none
	4-Jun-13	12:30		528432	5078333	Reptile Survey	Snapping Turtle	SC	SNTU	1	inlet	basking near surface	17	3	50%	none	none
	4-Jun-13	14:13	17T	524723	5079179	Reptile Survey	Blandings Turtle	THR	BLTU	1	Bog/fen ponds		4 -16	1 to 4	5-10%	none	none
	4-Jun-13	14:15	17T	524723	5079179	Reptile Survey	Snapping Turtle	SC	SNTU	1	second larger pond		4 -16	1 to 4	5-10%	none	none
	4-Jun-13	14:45	17T	524092	5078574	Reptile Survey	Milksnake	SC	MISN	1	rock barrens beside small bog/pond	Juvenile, about 15 cm long	4 -16	1 to 4	5-10%	none	none
	4-Jun-13	15:07	17T	532783	5080227		Blandings Turtle	THR	BLTU		wetland	adult, basking on log					
	5-Jun-13	9:40	17T	527554	5074934	Reptile Survey	Blandings Turtle	THR	BLTU	1	Marsh	basking on stump	10 - 17	3	50	none	none
	5-Jun-13	12:15	17T	523169	5076383		Blandings Turtle	THR	BLTU		water/inlet	adult, basking on a rock at waters edge					
	5-Jun-13	13:14	17T	528472	5078338		Five-lined skink	SC	FLSK		landing, end of Beckanon Road	Adult male on rocks					

Obs #	Location/Utm											Weather				
	Date	Time	Zone	Easting	Northing	Type of Survey	Observation	SARA Status	4-LTR CODE	# of individuals	Habitat	Other Notes	Temp	Wind	Cloud	precipitation	last 24 hrs?
	5-Jun-13	13:20	17T	527079	5074581	Reptile Survey	Blandings Turtle	THR	BLTU	1	Marsh	basking on log, very large adult	10 - 17	3	50	none	none
	5-Jun-13	13:25	17T	527045	5074586	Reptile Survey	Blandings Turtle	THR	BLTU	1	Marsh	basking on log, large adult	10 - 17	3	50	none	none
	5-Jun-13	13:31	17T	526939	5074627	Reptile Survey	Blandings Turtle	THR	BLTU	1	Marsh	basking on log, medium sized adule	10 - 17	3	50	none	none
	5-Jun-13	16:35	17T	526416	5075293	Reptile Survey	Blandings Turtle	THR	BLTU	1	Marsh	basking on log with 2 painted turtles	10 - 17	3	50	none	none
	5-Jun-13	17:10	17T	525450	5075515	Reptile Survey	Snapping Turtle	SC	SNTU	1	Marsh	basking in water, large about 16cm long	10 - 17	3	50	none	none
	6-Jun-13	6:30	17T	533576	5081870	Reptile Survey	Five-lined skink	SC	FLSK	1	Rock outcrop	juvenile	8 -18	3	10-100	none	none
	6-Jun-13	6:36	17T	533564	5081958	Reptile Survey	Five-lined skink	SC	FLSK	1	Rock outcrop	adult, missing tail	8 -18	3	10-100	none	none
	6-Jun-13	8:00	17T	526319	5076654	Reptile Survey	Blandings Turtle	THR	BLTU	2	Marsh	basking on log	10 - 15	3	80	none	none
	6-Jun-13	11:06	17T	531103	5080750		Blandings Turtle	THR	BLTU	12	wetland	many basking throughout wetland,					
	6-Jun-13	11:35	17T	527527	5075897	Reptile Survey	Blandings Turtle	THR	BLTU	6	Marsh	basking on logs in marsh	10 - 15	3	80	none	none
	6-Jun-13	13:16	17T	530385	5079844		Blandings Turtle	THR	BLTU	7	wetland	adults basking					
	6-Jun-13	13:16	17T	530385	5079844		Snapping Turtle	SC	SNTU	1	wetland	adult basking					
	6-Jun-13	13:30	17T	526591	5076142	Reptile Survey	Blandings Turtle	THR	BLTU	4	Marsh	basking	10 - 15	3	80	none	none
	7-Jun-13	7:11	17T	528569	5676631	Reptile Survey	Five-lined skink	SC	FLSK	1	Rock barren		10-17	2	50	none	none
	7-Jun-13	9:10	17T	528297	5076644	Reptile Survey	Five-lined skink	SC	FLSK	1	Rock barren		10-17	2	50	none	none
	7-Jun-13	10:00	17T	Exact location will not be made			Restricted Species	-	-		-	-	10-17	2	50	none	none
	7-Jun-13	10:20	17T	527182	5080275	Reptile Survey	Massassauga Rattlesnake	THR	MASS	1	Rocky shore near wetland	base of a juniper	9 - 19	3	60-100	none	none
	7-Jun-13	13:10	17T	527775	5078847	Reptile Survey	Milksnake	SC	MISN	1	Rock outcrop	about 15 cm long	9 - 19	3	60-100	none	none
	7-Jun-13	14:21	17T	529514	5078211		Blandings Turtle	THR	BLTU		roadside ditch beckanon road	adult					
	8-Jun-13	13:50	17T	530524	5078771	Reptile Survey	Blandings Turtle	THR	BLTU		man-made wet area (pond) along Bekman Road	large but not fully grown	8 - 18	1-2	90-100	none	none
	8-Jun-13		17T	528565	5079450	Reptile Survey	Massassauga Rattlesnake	THR	MASS		Jack pine barren, in rock outcrop	about 45-50cm with a large rattle	8 - 18	1-2	90-100	none	none
	15-Jun-13	7:37	17T	526691	5073341		Massassauga Rattlesnake	THR	MASS		forested wetland	adult, rattled, didn't strike					
	17-Jun-13	11:56	17T	529478	5077343		Massassauga Rattlesnake	THR	MASS		mixed woods	hid under log, tapped on log, no rattle heard					
	18-Jun-13	11:35	17T	532449	5078909		Snapping Turtle	SC	SNTU			7-10 predated nests, both painted and snapping					
	20-Jun-13	10:50	17T	527379	5080387	Reptile Survey	Massassauga Rattlesnake	THR	MASS		N of Joes Cabin, base of Juniper along rock outcrop	photos taken, large rattle (8 or 9) did not rattle; MC added UTM based on last known location during BB survey (B8 at 10:15am)	8-18	1-3	30-Oct	none	none
	22-Jun-13	16:20	17T	531043	5078720		Snapping Turtle	SC	SNTU		Beckanon Road	Possibly nesting at road edge					
	24-Jun-13	7:40	17T	528062	5077029	Breeding Birds	Blandings Turtle	THR	BLTU	2		mating pair	20	3	10	None	Showers
	25-Jun-13	9:30		526179	5074681	Breeding Birds	Massassauga Rattlesnake	THR	MASS	1		about 2 ft long	17-23	0	60	None	None
	25-Jun-13	15:10		525666	5075046	Breeding Birds	Snapping Turtle	SC	SNTU	2			17-23	0	60	None	None
	26-Jun-13	14:00	17T	522218	5077102	Reptile Survey	Fox snake	THR	FOSN		off shore island (chain of islands) in rock crevice about 1m from water	about 3 ft long	19-27	3	10	none	none
	26-Jun-13		17T	526734	5073715	Reptile Survey	Five-lined skink	SC	FLSK		rock barrens	juvenile	19-27	3	10	none	none
	26-Jun-13		17T	524537	5076645	Reptile Survey	Milksnake	SC	MISN		near shore half under rock	pretending to be a rattle snake	19-27	3	10	none	none
	27-Jun-13	10:02	17T	527497	5075963	Reptile Survey	Five-lined skink	SC	FLSK		rock barrens near beaverpond	juvenile about 14cm	17-25	0-3	90-100	none	none
	27-Jun-13		17T	526679	5076227	Reptile Survey	Blandings Turtle	THR	BLTU		Large beaverpond (small lake in core of BBS route)	GPS lost; UTM estimated by MC based on description in field notes	17-25	0-3	90-100	none	none
	5-Aug-13		17T				Blandings Turtle	THR	BLTU			predated nest, size and number suggest blandings	23	3	10	None	None
	5-Aug-13		17T	564188	5055210		Five-lined skink	SC	FLSK		open to under cover	pale colouration, but still blue on tail	23	3	10	None	None
	5-Aug-13		17T	564143	5055355		Five-lined skink	SC	FLSK		bare rocks	juvenile	23	3	10	None	None
	8-Aug-13		17T	566290	5051148		Milksnake	SC	MISN			probable milksnake, skin found, ~36 inches	23	0	50	None	Rain
	9-Aug-13		17T	577310	5030573		Snapping Turtle	SC	SNTU		road puddle	about 30cm diameter carapace	23	0	0	None	None
	23-Aug-13		17T	526791	5073049	Fall Passerine	Blandings Turtle	THR	BLTU		Sandy Bay passerine transect		23-25	2	30	None	None
	6-Sep-13	9:03	17T	523879	5081036		Massassauga Rattlesnake	THR	MASS				9-20	4	100	None	None
	6-Sep-13	11:28	17T	527117	5081654		Massassauga Rattlesnake	THR	MASS				9-20	4	100	None	None
	6-Sep-13			527117	5081654	Fall Passerine	Massassauga Rattlesnake	THR	MASS				18	4	80-100	None	None
	12-Sep-13		17T	526090	5077019		Blandings Turtle	THR	BLTU			predated					
	23-Sep-13	10:59	17T	523667	5081298		Massassauga Rattlesnake	THR	MASS			shed snake skin					
	6-Aug-03		17T	562389	5058507		Five-lined skink	SC	FLSK			Juvenil, 5-6cm long					
	6-Sep-03			523879	5081036	Fall Passerine	Massassauga Rattlesnake	THR	MASS				1	3	75	None	None

Date	Time	Location/Utm Zone	Easting	Northing	Type of Survey	Observation		# of individuals	Habitat	Other Notes	SARA Status	4-letter Code
9-Jul	N/A	17T	529555	5078479	Breeding birds	Pine Imperial Moth	Eacles imperialis pini	1		found dead on road near truck	S3?	PIMO
							Restricted Species		-			
							Restricted Species		-			
							Restricted Species		-			
							Restricted Species		-			
							Restricted Species		-			

Date	Time	Location/Utm Easting	Northing	Type of Survey	Observation	# of individuals	Habitat	Other Notes	SARA Status	4-letter Code
23-May-13	9:09	541470	5063041		Blanding's Turtle	1		roadkill, photographed	THR	BLTU
23-May-13	9:10	541458	5063070		Blanding's Turtle	1		juvenile, roadkill, photographed	THR	BLTU
23-May-13	9:14	541439	5063066		Blanding's Turtle	1		roadkill, photographed	THR	BLTU
23-May-13	9:16	541460	5063023		Blanding's Turtle	1		roadkill, photographed	THR	BLTU
23-May-13	12:48	565257	5035189		Blanding's Turtle	1		female, roadkill, photographed	THR	BLTU
9-Jun-13	9:29	539962	5066371		Blanding's Turtle	1		juvenile, roadkill, photographed	THR	BLTU
10-Jun-13	13:01	540875	5064366		Blanding's Turtle	1		bones	THR	BLTU
12-Jun-13	15:39	539969	5066327		Blanding's Turtle	1		juvenile, roadkill, photographed	THR	BLTU
13-Jun-13	15:51	533589	5081140		Blanding's Turtle	1		female, roadkill, photographed	THR	BLTU
18-Jun-13	16:22	533687	5081580		Blanding's Turtle	1		female with eggs, roadkill, photographed, likely purposely hit	THR	BLTU
30-Jun-13	13:08	540281	5065697		Blanding's Turtle	1		roadkill, photographed	THR	BLTU
1-Jul-13	14:38	541453	5063087		Blanding's Turtle	1		roadkill, photographed	THR	BLTU
3-Jul-13	13:15	571691	5031142		Blanding's Turtle	1		female, roadkill, photographed	THR	BLTU
23-Jul-13	9:34	532600	5090302		Blanding's Turtle	1		juvenile, roadkill, photographed	THR	BLTU
24-Jul-13	15:41	541474	5062984		Blanding's Turtle	1		juvenile, roadkill, photographed	THR	BLTU
4-Jul-13	17:20	540599	5065047		Five- lined skink	1		adult	SC	FLSK
2-Jul-13	13:46	559561	5040797		Massasauga Rattlesnake	1		healthy adult	THR	MASS
23-May-13	6:21	Exact location will not be made public due to threat of poaching			Restricted Species	-	-	-	SC	SNTU
23-May-13	6:34	547166	5053320		Snapping Turtle	1		roadkill, photographed	SC	SNTU
23-May-13	12:44	Exact location will not be made public due to threat of poaching			Restricted Species	-	-	-	SC	SNTU
23-May-13	12:50	565253	5035193		Snapping Turtle	1		baby, photographed	SC	SNTU
23-May-13	12:56	565249	5035222		Snapping Turtle	1		roadkill, photographed	SC	SNTU
23-May-13	12:58	Exact location will not be made public due to threat of poaching			Restricted Species	-	-	-	SC	SNTU
23-May-13	13:15	Exact location will not be made public due to threat of poaching			Restricted Species	-	-	-	SC	SNTU
23-May-13	16:11	555962	5044211		Snapping Turtle	1		juvenile, roadkill, photographed	SC	SNTU
23-May-13	16:55	554428	5045162		Snapping Turtle	1		roadkill, photographed	SC	SNTU
24-May-13	8:33	566913	5033341		Snapping Turtle	1		roadkill, photographed	SC	SNTU
9-Jun-13	8:37	563350	5037120		Snapping Turtle	1		juvenile, roadkill, photographed	SC	SNTU
9-Jun-13	8:49	554605	5045088		Snapping Turtle	1		roadkill, photographed	SC	SNTU
9-Jun-13	8:57	552204	5046325		Snapping Turtle	1		juvenile, roadkill, photographed	SC	SNTU
9-Jun-13	9:03	548781	5049515		Snapping Turtle	1		roadkill, photographed	SC	SNTU
9-Jun-13	9:17	541713	5062471		Snapping Turtle	1		juvenile, roadkill, photographed	SC	SNTU
10-Jun-13	10:40	538815	5069576		Snapping Turtle	1		nesting on road shoulder, photographed	SC	SNTU
10-Jun-13	13:17	541415	5063130		Snapping Turtle	1		juvenile, roadkill, photographed	SC	SNTU
10-Jun-13	15:15	538407	5069771		Snapping Turtle	1		juvenile, roadkill, photographed	SC	SNTU
13-Jun-13	14:39	556296	5043978		Snapping Turtle	1		roadkill, photographed	SC	SNTU
13-Jun-13	16:06	532604	5090178		Snapping Turtle	1		roadkill, photographed	SC	SNTU
14-Jun-13	8:59	550426	5047310		Snapping Turtle	1		juvenile, roadkill, photographed	SC	SNTU
14-Jun-13	16:53	551654	5046565		Snapping Turtle	1		baby, roadkill, photographed	SC	SNTU
30-Jun-13	14:19	533603	5082505		Snapping Turtle	1		juvenile, roadkill, photographed	SC	SNTU
30-Jun-13	14:32	533420	5093083		Snapping Turtle	1		roadkill, photographed	SC	SNTU
3-Jul-13	16:08	533088	5091677		Snapping Turtle	1		juvenile, roadkill, photographed	SC	SNTU
23-Jul-13	9:38	532600	5090293		Snapping Turtle	1		roadkill, photographed	SC	SNTU
23-Jul-13	9:46	532605	5090219		Snapping Turtle	1		roadkill, photographed	SC	SNTU
24-Jul-13	10:23	563139	5037291		Snapping Turtle	1		juvenile, roadkill, photographed	SC	SNTU
12-Jun-13	15:42	Exact location will not be made public due to threat of poaching			Restricted Species	-		-	END	-
14-Jun-13	10:27	Exact location will not be made public due to threat of poaching			Restricted Species	-		-	END	-
23-May-13	7:01	546938	5054154		turtle nest			predated turtle nests, SNTU and others	SC	SNTU
23-May-13	8:58	541947	5061927		turtle nest			predated turtle nests, SNTU and others	SC	SNTU
30-Jun-13	11:04	534765	5075263		turtle nest	1		predated turtle nests, SNTU and others	SC	SNTU
					Restricted Species	-	-	-		

Appendix B

Work Plans