

Common Name	Scientific Name	Provincial SRANK <sup>1</sup>	Provincial SARO (Endangered Species Act, 2007) <sup>2</sup>	Federal COSEWIC <sup>3</sup>	Federal SARA (Species at Risk Act) <sup>3</sup>	Federal SARA Schedule <sup>4</sup>	Provincial MNRFA Area Sensitive Species <sup>5</sup>	TRCA Fauna Rank <sup>6</sup>	Highest Number Recorded (All Habitat Units Combined)	Highest Recorded Breeding Evidence <sup>7</sup>	Comments
Alder Flycatcher	<i>Empidonax alhorum</i>	S5B						L4	1	POSS (S)	
American Crow	<i>Corvus brachyrhynchos</i>	S5B						L5	5	POSS (S)	
American Goldfinch	<i>Spinus tristis</i>	S5B						L5	63	PROB (T)	
American Redstart	<i>Setophaga ruticilla</i>	S5B					Yes	L4	9	PROB (T)	
American Robin	<i>Turdus migratorius</i>	S5B						L5	33	CONF (CF)	
American Woodcock	<i>Scolopax minor</i>	S4B						<b>L3</b>	2	CONF (NU)	American Woodcock was heard calling incidentally during amphibian survey on April 6, 2020 and observed during turtle basking survey on April 27, 2020; a nest (broken eggshells) was found during a turtle nesting survey in early spring.
Baltimore Oriole	<i>Icterus galbula</i>	S4B						L5	8	PROB (T)	
Barn Swallow	<i>Hirundo rustica</i>	S4B	THR	THR	THR			L4	11	Observed (X)	Flyover. None recorded on or in the structures present on the subject property. Observed entering/exiting potential nesting site located outside of the subject property limits.
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	S5B						<b>L3</b>	7	PROB (T)	
Black-capped Chickadee	<i>Poecile atricapillus</i>	S5						L5	13	CONF (CF)	Mating pair feeding young, entering and exiting nesting cavity; observed during bat habitat survey on April 24, 2020.
Blue Jay	<i>Cyanocitta cristata</i>	S5						L5	10	POSS (S)	
Brown-headed Cowbird	<i>Molothrus ater</i>	S4B						L5	25	PROB (T)	

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Canada Goose	<i>Branta canadensis</i>	S5						L5	142	CONF (FY)	Mostly flyovers; pair with six young observed on April 27, 2020.
Cedar Waxwing	<i>Bombycilla cedrorum</i>	S5B						L5	28	PROB (T)	
Chipping Sparrow	<i>Spizella passerina</i>	S5B						L5	8	PROB (N)	
Common Grackle	<i>Quiscalus quiscula</i>	S5B						L5	27	CONF (CF)	
Common Raven	<i>Corvus corax</i>	S5						L4	2	Observed (X)	Flyover.
Common Yellowthroat	<i>Geothlypis trichas</i>	S5B						L4	15	PROB (T)	
Cooper's Hawk	<i>Accipiter cooperii</i>	S4	NAR	NAR			Yes	L4	1	Observed (X)	Flyover.
Downy Woodpecker	<i>Picoides pubescens</i>	S5						L5	4	POSS (S)	
Eastern Kingbird	<i>Tyrannus tyrannus</i>	S4B						L4	16	PROB (N)	
Eastern Phoebe	<i>Sayornis phoebe</i>	S5B						L5	1	POSS (H)	
Eastern Wood-Pewee	<i>Contopus virens</i>	S4B	SC	SC	SC			L4	2	POSS (S)	Recorded in CUM1-1 and central CVR_4 ecosites.
European Starling	<i>Sturnus vulgaris</i>	SNA						L+	49	CONF (FY)	
Field Sparrow	<i>Spizella pusilla</i>	S4B						L3	6	PROB (T)	
Gray Catbird	<i>Dumetella carolinensis</i>	S4B						L4	16	PROB (T)	
Great Blue Heron	<i>Ardea herodias</i>	S4						L3	21	Observed (X)	Flyover.
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	S4B						L4	2	POSS (S)	
Green Heron	<i>Butorides virescens</i>	S4B						L4	4	POSS (S)	One perched in tree calling repeatedly at MAS3-1. Three others observed as flyovers.
Herring Gull	<i>Larus argentatus</i>	S5B, S5N						L3	3	Observed (X)	Flyover.
Horned Lark	<i>Eremophila alpestris</i>	S5B						L3	9	PROB (T)	
House Finch	<i>Haemorhous mexicanus</i>	SNA						L+	6	POSS (S)	
House Sparrow	<i>Passer domesticus</i>	SNA						L+	2	POSS (H)	
House Wren	<i>Troglodytes aedon</i>	S5B						L5	1	POSS (S)	
Indigo Bunting	<i>Passerina cyanea</i>	S4B						L4	2	PROB (T)	

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Killdeer	<i>Charadrius vociferus</i>	S5B, S5N						L4	23	CONF(AE)	Nest with eggs confirmed on May 13, 2020 near SWM pond.
Mallard	<i>Anas platyrhynchos</i>	S5						L5	15	POSS (H)	
Mourning Dove	<i>Zenaida macroura</i>	S5						L5	27	PROB (P)	
Northern Cardinal	<i>Cardinalis cardinalis</i>	S5						L5	16	PROB (T)	
Northern Flicker	<i>Colaptes auratus</i>	S4B						L4	1	POSS (H)	
Orchard Oriole	<i>Icterus spurius</i>	S4B						L5	9	PROB (T)	
Osprey	<i>Pandion haliaetus</i>	S5B						<b>L3</b>	3	Observed (X)	Flyover.
Red-eyed Vireo	<i>Vireo olivaceus</i>	S5B						L4	2	POSS (S)	
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	S4						L5	127	CONF (CF)	
Ring-billed Gull	<i>Larus delawarensis</i>	S5B, S4N						L4	42	Observed (X)	Flyover.
Rock Pigeon	<i>Columba livia</i>	SNA						L+	6	POSS (H)	
Savannah Sparrow	<i>Passerculus sandwichensis</i>	S4B						L4	8	PROB (N)	
Song Sparrow	<i>Melospiza melodia</i>	S5B						L5	49	CONF (CF)	
Sora	<i>Porzana carolina</i>	S4B						<b>L3</b>	1	POSS (S)	Responded to playback.
Spotted Sandpiper	<i>Actitis macularius</i>	S5						L4	7	POSS (S)	
Swamp Sparrow	<i>Melospiza georgiana</i>	S5B						L4	15	PROB (P)	
Tree Swallow	<i>Tachycineta bicolor</i>	S4B						L4	25	POSS (H)	
Turkey Vulture	<i>Cathartes aura</i>	S5B						L5	9	Observed (X)	Flyover.
Virginia Rail	<i>Rallus limicola</i>	S5B						<b>L3</b>	2	POSS (S)	
Warbling Vireo	<i>Vireo gilvus</i>	S5B						L5	9	POSS (S)	
Willow Flycatcher	<i>Empidonax traillii</i>	S5B						L4	26	PROB (T)	
Wood Duck	<i>Aix sponsa</i>	S5B, S3N						L4	1	POSS (H)	Observed during turtle nesting surveys. Female flying low towards SWD ecosite.
Yellow Warbler	<i>Setophaga petechia</i>	S5B						L5	40	CONF (CF)	
<b>TOTAL SPECIES</b>	<b>58</b>										

### **<sup>1</sup>S-Ranks (provincial)**

Provincial (or Subnational) ranks are used by the Natural Heritage Information Centre (NHIC) to set protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario (Please refer to: <http://explorer.natureserve.org/nsranks.htm>)

**SX — Presumed Extirpated** - Species or community is believed to be extirpated from the province. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.

**SH — Possibly Extirpated (Historical)** - Species or community occurred historically in the province, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20–40 years. A species or community could become SH without such a 20-40 year delay if the only known occurrences in a province were destroyed or if it had been extensively and unsuccessfully looked for. The SH rank is reserved for species or communities for which some effort has been made to relocate occurrences, rather than simply using this status for all elements not known from verified extant occurrences.

**S1 — Critically Imperiled** - Critically imperiled in the province or state because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the province.

**S2 — Imperiled** - Imperiled in the province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the province.

**S3 — Vulnerable** - Vulnerable in the province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.

**S4 — Apparently Secure** - Uncommon but not rare; some cause for long-term concern due to declines or other factors.

**S5 — Secure** - Common, widespread, and abundant in the province.

**SNR — Unranked** - Province conservation status not yet assessed.

**SU — Unrankable** - Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

**SNA — Not Applicable** - A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

**S#S# — Range Rank** - A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

**S#? — Inexact or Uncertain** - Denotes inexact or uncertain numeric rank.

### **Breeding Status Qualifiers**

B – Breeding Conservation status refers to the breeding population of the species in the nation or state/province.

N – Nonbreeding Conservation status refers to the non-breeding population of the species in the province.

M – Migrant species occurring regularly on migration at particular staging areas or concentration spots where the species might warrant conservation attention. Conservation status refers to the aggregating transient population of the species in the province.

### **<sup>2</sup>SARO Endangered Species Act, 2007**

(provincial status from <http://www.ontario.ca/environment-and-energy/how-species-risk-are-listed#section-3>)

The provincial review process is implemented by the MNRF's Committee on the Status of Species at Risk in Ontario (COSSARO).

**Extinct** - A species that no longer exists anywhere.

**Extirpated (EXT)** - Lives somewhere in the world, and at one time lived in the wild in Ontario, but no longer lives in the wild in Ontario.

**Endangered (END)** - Lives in the wild in Ontario but is facing imminent extinction or extirpation.

**Threatened (THR)** - Lives in the wild in Ontario, is not endangered, but is likely to become endangered if steps are not taken to address factors threatening it.

**Special concern (SC)** - Lives in the wild in Ontario, is not endangered or threatened, but may become threatened or endangered due to a combination of biological characteristics and identified threats.

**Not at Risk (NAR)** - A species that has been evaluated and found to be not at risk.

**Data Deficient (DD)** - A species for which there is insufficient information for a provincial status recommendation.

### **<sup>3</sup>SARA (Federal Species at Risk Act) Status and Schedule (includes COSEWIC Status)**

The Act establishes Schedule 1, as the official list of wildlife species at risk. It classifies those species as being either Extirpated, Endangered, Threatened, or Special Concern. Once listed, the measures to protect and recover a listed wildlife species are implemented.

**Extinct** - A wildlife species that no longer exists.

**Extirpated (EXT)** - A wildlife species that no longer exists in the wild in Canada but exists elsewhere.

**Endangered (END)** - A wildlife species facing imminent extirpation or extinction.

**Threatened (THR)** - A wildlife species that is likely to become an endangered if nothing is done to reverse the factors leading to its extirpation or extinction.

**Special Concern (SC)** - A wildlife species that may become threatened or endangered because of a combination of biological characteristics and identified threats.

**Data Deficient (DD)** - A category that applies when the available information is insufficient (a) to resolve a wildlife species' eligibility for assessment or (b) to permit an assessment of the wildlife species' risk of extinction.

**Not At Risk (NAR)** - A wildlife species that has been evaluated and found to be not at risk of extinction given the current circumstances.

### **<sup>4</sup>SARA Schedule**

**Schedule 1:** is the official list of species that are classified as extirpated, endangered, threatened, and of special concern.

**Schedule 2:** species listed in Schedule 2 are species that had been designated as endangered or threatened and have yet to be re-assessed by COSEWIC using revised criteria. Once these species have been re-assessed, they may be considered for inclusion in Schedule 1.

**Schedule 3:** species listed in Schedule 3 are species that had been designated as special concern and have yet to be re-assessed by COSEWIC using revised criteria. Once these species have been re-assessed, they may be considered for inclusion in Schedule 1.

The Act establishes Schedule 1 as the official list of wildlife species at risk. However, please note that while Schedule 1 lists species that are extirpated, endangered, threatened and of special concern, the prohibitions do not apply to species of special concern.

Species that were designated at risk by COSEWIC prior to October 1999 (Schedule 2 & 3) must be reassessed using revised criteria before they can be considered for addition to Schedule 1 of SARA. After they have been assessed, the Governor in Council may on the recommendation of the Minister, decide on whether they should be added to the List of Wildlife Species at Risk.

<sup>5</sup>Source: Ontario Ministry of Natural Resources. 2000. *Significant Wildlife Habitat Technical Guide & Appendices*.

**<sup>6</sup>TRCA Fauna Ranks and Scores for the TRCA Jurisdiction, 2019**

- L1 – Species of Regional Conservation Concern, regionally scarce due to either accidental occurrence or extreme sensitivity to human impacts
- L2 – Species of Regional Conservation Concern, somewhat more abundant and generally slightly less sensitive than L1 species
- L3 - Species of Regional Conservation Concern, generally less sensitive and more abundant than L1 and L2 ranked species
- L4 – Species of Urban Concern, occur throughout the region but could show declines if urban impacts are not mitigated effectively
- L5 – Species that are considered secure through the region
- L+ - Introduced species, not native to the Toronto region
- LX – Extirpated species, species not recorded in the region in the past 10 years
- LS – sporadic breeder, species not recorded in the region in the past 10 years

**<sup>7</sup>Ontario Breeding Bird Atlas - Breeding Evidence Codes**

Observed	
X	Species observed in its breeding season (no breeding evidence).

Possible	
H	Species observed in its breeding season in suitable nesting habitat.
S	Singing male(s) present, or breeding calls heard, in suitable nesting habitat in breeding season.

Probable	
P	Pair observed in suitable nesting habitat in nesting season.
T	Permanent territory presumed through registration of territorial behaviour (song, etc.) on at least two days, a week or more apart, at the same place.
D	Courtship or display, including interaction between a male and a female or two males, including courtship feeding or copulation.
V	Visiting probable nest site
A	Agitated behaviour or anxiety calls of an adult.
B	Brood Patch on adult female or cloacal protuberance on adult male.
N	Nest-building or excavation of nest hole.

Confirmed	
DD	Distraction display or injury feigning.
NU	Used nest or eggshells found (occupied or laid within the period of the survey).
FY	Recently fledged young (nidicolous species) or downy young (nidifugous species), including incapable of sustained flight.
AE	Adult leaving or entering nest sites in circumstances indicating occupied nest.
FS	Adult carrying fecal sac.
CF	Adult carrying food for young.
NE	Nest containing eggs.
NY	Nest with young seen or heard.



## Amphibian Call Survey<sup>1</sup>

Project No.: 300043952		Project Name: Snell's Hollow		
Number of Stations: 4		Field Staff: NP, S.L.R.		
Station ID: 1	Station Direction: E	Time (24hr): 21:59	Date: Apr. 24/19	
Start Time (24hr): 21:59	End Time (24hr): 22:02	RH (%):	Water Temp °C	
Air Temp °C Start: 6	Air Temp °C End: 6	Overnight Temp °C (21:00 to 5:00): High: 9 Low: 3		
Beaufort Wind Scale <sup>1</sup> : 2	Sky Code <sup>2</sup> : 1	Precipitation (y/n): N		
UTM: 595248 Easting 481431 Northing		Vegetation Unit Reference (where applic.):		

Landscape Context		Water Feature	
<input type="checkbox"/>	Upland Forest	<input type="checkbox"/>	Excavated Ditch/Pond
<input type="checkbox"/>	Treed Swamp	<input type="checkbox"/>	Natural swale/depression/pond
<input checked="" type="checkbox"/>	Marsh/Thicket Swamp	<input type="checkbox"/>	Impoundment
<input type="checkbox"/>	Agricultural Field/Meadow	<input checked="" type="checkbox"/>	Marsh
<input checked="" type="checkbox"/>	Suburban/Urban	<input type="checkbox"/>	Swamp
<input type="checkbox"/>	Other	<input type="checkbox"/>	Vernal Pool
<input type="checkbox"/>		<input type="checkbox"/>	Other

	Species <sup>3</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other	Other
Call Code <sup>5</sup>	1									
Count	2									
Comments/Additional Observations: Lots of traffic right next to site, difficult to hear.										

<p><sup>1</sup> Beaufort Wind Scale</p> <p>0 = calm, smoke rises vertically (0-2km/hr)</p> <p>1 = Light air movement, smoke drifts (3-5)</p> <p>2 = Slight breeze, wind felt on face; leaves rustle (6-11)</p> <p>3 = Gentle breeze, leaves &amp; twigs in constant motion (12-19)</p> <p>4 = Moderate breeze, small branches moving, raises dust &amp; loose paper (20-30);</p> <p>5 = Fresh breeze, small trees begin to sway (31-39)</p> <p>6 = Strong breeze, large branches in motion (40-50)</p>	<p><sup>2</sup> NAAMP/ Beaufort Sky Codes</p> <p>0 = clear (no cloud cover)</p> <p>1 = partly cloudy (scattered or broken) or variable</p> <p>2 = cloudy or overcast</p> <p>3 = sandstorm, duststorm or blowing snow</p> <p>4 = fog, smoke, thick dust, or haze</p> <p>5 = drizzle or light rain</p> <p>6 = rain</p> <p>7 = snow or snow/rain mix</p> <p>8 = showers</p> <p>9 = thunderstorms</p>	<p><sup>3</sup> Typical Species</p> <p>American Toad (AMTO)</p> <p>Northern Leopard Frog (NLFR)</p> <p>Green Frog (GRFR)</p> <p>Chorus Frog (CHFR)</p> <p>Gray Treefrog (GRTR)</p> <p>Wood Frog (WOFR)</p> <p>Bullfrog (BULL)</p> <p>Spring Peeper (SPPE)</p>	<p>Call Level Codes</p> <p>Level 1 – individual calls can be counted, no overlap</p> <p>Level 2 – some calls can be counted, some overlap</p> <p>Level 3 – calls continuous and overlapping, individuals not distinguishable</p>
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## Amphibian Call Survey<sup>1</sup>

Project No.: 043952	Project Name: Snell's Hollow		
Number of Stations: 4	Field Staff: NP, SR (Sylvia R.)		
Station ID: 2	Station Direction: W	Time (24hr): 21:47	Date: Apr 24/19
Start Time (24hr): 21:47	End Time (24hr): 21:50	RH (%): —	Water Temp °C: —
Air Temp °C Start: 6.3°C	Air Temp °C End: 6	Overnight Temp °C (21:00 to 5:00): High: 9°C Low: 3°C	
Beaufort Wind Scale <sup>1</sup> : 2	Sky Code <sup>2</sup> : 1	Precipitation (y/n): N	
UTM: 595474 easting 4244111 northing		Vegetation Unit Reference (where applic.):	

Landscape Context		Water Feature	
<input type="checkbox"/>	Upland Forest	<input type="checkbox"/>	Excavated Ditch/Pond
<input type="checkbox"/>	Treed Swamp	<input type="checkbox"/>	Natural swale/depression/pond
<input type="checkbox"/>	Marsh/Thicket Swamp	<input type="checkbox"/>	Impoundment
<input checked="" type="checkbox"/>	Agricultural Field/Meadow	<input type="checkbox"/>	Marsh
<input checked="" type="checkbox"/>	Suburban/Urban	<input type="checkbox"/>	Swamp
<input type="checkbox"/>	Other	<input type="checkbox"/>	Vernal Pool
<input type="checkbox"/>		<input checked="" type="checkbox"/>	Other SWM pond

Call Code <sup>5</sup>	Species <sup>3</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other	Other
	No frogs heard.									
Count										

Comments/Additional Observations:

Beaver actively swimming by pond and slapping tail on water, busy road surrounding site.

<p><sup>1</sup> Beaufort Wind Scale</p> <p>0 = calm, smoke rises vertically (0-2km/hr)                  1 = Light air movement, smoke drifts (3-5)                  2 = Slight breeze, wind felt on face; leaves rustle (6-11)                  3 = Gentle breeze, leaves &amp; twigs in constant motion (12-19)                  4 = Moderate breeze, small branches moving, raises dust &amp; loose paper (20-30)                  5 = Fresh breeze, small trees begin to sway (31-39)                  6 = Strong breeze, large branches in motion (40-50)</p>	<p><sup>2</sup> NAAMP/ Beaufort Sky Codes</p> <p>0 = clear (no cloud cover)                  1 = partly cloudy (scattered or broken) or variable                  2 = cloudy or overcast                  3 = sandstorm, duststorm or blowing snow                  4 = fog, smoke, thick dust, or haze                  5 = drizzle or light rain                  6 = rain                  7 = snow or snow/rain mix                  8 = showers                  9 = thunderstorms</p>	<p><sup>3</sup> Typical Species</p> <p>American Toad (AMTO)                  Northern Leopard Frog (NLFR)                  Green Frog (GRFR)                  Chorus Frog (CHFR)                  Gray Treefrog (GRTR)                  Wood Frog (WOFR)                  Bullfrog (BULL)                  Spring Peeper (SPPE)</p>	<p>Call Level Codes</p> <p>Level 1 – individual calls can be counted, no overlap                  Level 2 – some calls can be counted, some overlap                  Level 3 – calls continuous and overlapping, individuals not distinguishable</p>
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## Amphibian Call Survey<sup>1</sup>

Project No.: 043952	Project Name: Snell's Hollows		
Number of Stations: 34	Field Staff: NP-SR (G. W. R.)		
Station ID: 3	Station Direction: W	Time (24hr): 21:33	Date: Apr. 24/19
Start Time (24hr): 21:33	End Time (24hr): 21:36	RH (%): —	Water Temp °C —
Air Temp °C Start: 8.8°C	Air Temp °C End: 6.3°C	Overnight Temp °C (21:00 to 5:00): High: 9°C Low: 3°C	
Beaufort Wind Scale <sup>1</sup> : 2	Sky Code <sup>2</sup> : 1	Precipitation (y/n): N	
UTM: 595694 easting 484549 northing		Vegetation Unit Reference (where applic.):	

Landscape Context		Water Feature	
<input type="checkbox"/>	Upland Forest	<input type="checkbox"/>	Excavated Ditch/Pond
<input checked="" type="checkbox"/>	Treed Swamp (tall shrubs)	<input type="checkbox"/>	Natural swale/depression/pond
<input checked="" type="checkbox"/>	Marsh/Thicket Swamp	<input type="checkbox"/>	Impoundment
<input checked="" type="checkbox"/>	Agricultural Field/Meadow	<input type="checkbox"/>	Marsh
<input type="checkbox"/>	Suburban/Urban	<input checked="" type="checkbox"/>	Swamp
<input type="checkbox"/>	Other	<input type="checkbox"/>	Vernal Pool
<input type="checkbox"/>		<input type="checkbox"/>	Other

Call Code <sup>5</sup>	Species <sup>3</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other	Other
1										
Count	2-3									

Comments/Additional Observations:

Difficult to hear due to traffic on busy road behind us.

<p><sup>1</sup> Beaufort Wind Scale</p> <p>0 = calm, smoke rises vertically (0-2km/hr)</p> <p>1 = Light air movement, smoke drifts (3-5)</p> <p>2 = Slight breeze, wind felt on face; leaves rustle (6-11)</p> <p>3 = Gentle breeze, leaves &amp; twigs in constant motion (12-19)</p> <p>4 = Moderate breeze, small branches moving, raises dust &amp; loose paper (20-30)</p> <p>5 = Fresh breeze, small trees begin to sway (31-39)</p> <p>6 = Strong breeze, large branches in motion (40-50)</p>	<p><sup>2</sup> NAAMP/ Beaufort Sky Codes</p> <p>0 = clear (no cloud cover)</p> <p>1 = partly cloudy (scattered or broken) or variable</p> <p>2 = cloudy or overcast</p> <p>3 = sandstorm, duststorm or blowing snow</p> <p>4 = fog, smoke, thick dust, or haze</p> <p>5 = drizzle or light rain</p> <p>6 = rain</p> <p>7 = snow or snow/rain mix</p> <p>8 = showers</p> <p>9 = thunderstorms</p>	<p><sup>3</sup> Typical Species</p> <p>American Toad (AMTO)</p> <p>Northern Leopard Frog (NLFR)</p> <p>Green Frog (GRFR)</p> <p>Chorus Frog (CHFR)</p> <p>Gray Treefrog (GRTR)</p> <p>Wood Frog (WOFR)</p> <p>Bullfrog (BULL)</p> <p>Spring Peeper (SPPE)</p>	<p>Call Level Codes</p> <p>Level 1 – individual calls can be counted, no overlap</p> <p>Level 2 – some calls can be counted, some overlap</p> <p>Level 3 – calls continuous and overlapping, individuals not distinguishable</p>
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## Amphibian Call Survey<sup>1</sup>

Project No.: 300043952	Project Name: Shell's Hollow		
Number of Stations: 4	Field Staff: NP, SR		
Station ID: 4	Station Direction: NW	Time (24hr): 21:12	Date: Apr 24/19
Start Time (24hr): 21:15	End Time (24hr): 21:18	RH (%): —	Water Temp °C —
Air Temp °C Start: 6.8	Air Temp °C End: 8.8	Overnight Temp °C (21:00 to 5:00): High: 9°C Low: 2°C	
Beaufort Wind Scale <sup>1</sup> : 2	Sky Code <sup>2</sup> : 1	Precipitation (y/n): N	
UTM: 596082 easting 4544944 northing	Vegetation Unit Reference (where applic.):		

Landscape Context		Water Feature	
<input type="checkbox"/>	Upland Forest	<input type="checkbox"/>	Excavated Ditch/Pond
<input type="checkbox"/>	Treed Swamp	<input checked="" type="checkbox"/>	Natural swale/depression/pond
<input checked="" type="checkbox"/>	Marsh/Thicket Swamp	<input type="checkbox"/>	Impoundment
<input checked="" type="checkbox"/>	Agricultural Field/Meadow	<input type="checkbox"/>	Marsh
<input checked="" type="checkbox"/>	Suburban/Urban	<input type="checkbox"/>	Swamp
<input type="checkbox"/>	Other	<input type="checkbox"/>	Vernal Pool
<input type="checkbox"/>		<input type="checkbox"/>	Other

Call Code <sup>5</sup>	Species <sup>3</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other	Other
Count										

Comments/Additional Observations:  
 Difficult to hear due to traffic on busy road next to site.

<sup>1</sup> Beaufort Wind Scale 0 = calm, smoke rises vertically (0-2km/hr) 1 = Light air movement, smoke drifts (3-5) 2 = Slight breeze, wind felt on face; leaves rustle (6-11) 3 = Gentle breeze, leaves & twigs in constant motion (12-19) 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5 = Fresh breeze, small trees begin to sway (31-39) 6 = Strong breeze, large branches in motion (40-50)	<sup>2</sup> NAAMP/ Beaufort Sky Codes 0 = clear (no cloud cover) 1 = partly cloudy (scattered or broken) or variable 2 = cloudy or overcast 3 = sandstorm, duststorm or blowing snow 4 = fog, smoke, thick dust, or haze 5 = drizzle or light rain 6 = rain 7 = snow or snow/rain mix 8 = showers 9 = thunderstorms	<sup>3</sup> Typical Species American Toad (AMTO) Northern Leopard Frog (NLFR) Green Frog (GRFR) Chorus Frog (CHFR) Gray Treefrog (GRTR) Wood Frog (WOFR) Bullfrog (BULL) Spring Peeper (SPPE)	Call Level Codes Level 1 – individual calls can be counted, no overlap Level 2 – some calls can be counted, some overlap Level 3 – calls continuous and overlapping, individuals not distinguishable
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# Amphibian Call Survey<sup>1</sup>



**Project Name:** Snell's Hollow East  
Secondary Plan.

**Project No:** 300543952

**Observers:** NPJ, Sgl. R.

**Total # of Stations:** 4

**Survey Time:** Start: 21:27 End: 22:07 (24 hr)

**Date:** May 15/19

**Air Temperature (°C):** Start: 12.5°C End: 12.6°C RH (%): 72 Sky Code<sup>2</sup>: 1 Wind Scale<sup>3</sup>: 1

Overnight Temp (21:00 to 5:00): High: 13°C Low: 6°C Overnight Precip?  YES  NO

**Station ID:** 4

**Description:** Biggest pond.

**Time (24 hr):** 21:27

**Station Direction:** NW (e.g. NW)

**Water Temp (where applic.):**      °C

**Landscape Context:**

- Upland Forest
- Treed Swamp
- Marsh / Thicket Swamp
- Agricultural Field / Meadow
- Suburban / Urban
- Other:

**Water Feature:**

- Excavated Ditch/Pond
- Natural swale / depression / pond
- Impoundment
- Marsh
- Swamp
- Vernal Pool
- Other:

**UTM:** 596068 E 4841844 N **Veg. Unit Reference (where applic.):**     

	Species <sup>4</sup>								Other:	
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL		
<b>Call Code<sup>5</sup></b>				<u>3</u>						
<b>Count</b>				<u>1/1</u>						

**Comments/Additional Observations:**  
Am. Woodcock calling near pond. (west of pond).

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

# Amphibian Call Survey<sup>1</sup>



<b>Station ID:</b> <u>3</u> Description: <u>In the field, by the trees</u> Time (24 hr): <u>21:44</u> Station Direction: <u>NW</u> (e.g. NW) Water Temp (where applic.): <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input checked="" type="checkbox"/> Treed Swamp ( <u>Small shrubs</u> ) <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input checked="" type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
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UTM: 595693 E 4844549 N Veg. Unit Reference (where applic.): \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	1									
<b>Count</b>	1									

Comments/Additional Observations:  
Am. woodcock calling nearby.

<b>Station ID:</b> <u>2</u> Description: <u>SWM pond at corner</u> Time (24 hr): <u>21:53</u> Station Direction: <u>SW</u> (e.g. NW) Water Temp (where applic.): <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input checked="" type="checkbox"/> Other: <u>SWM pond</u>
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UTM: 595474 E 4844194 N Veg. Unit Reference (where applic.): \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>				2						
<b>Count</b>				2						

Comments/Additional Observations:  
Traffic on road nearby.

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

<sup>1</sup>This sheet was developed following guidelines of the Marsh Monitoring Program (MMP) developed by Bird Studies Canada, in partnership with Environment Canada

# Amphibian Call Survey<sup>1</sup>



<b>Station ID:</b> <u>1</u> Description: <u>By the barn on Kennedy.</u> Time (24 hr): <u>20:04</u> Station Direction: <u>NE</u> (e.g. NW) Water Temp (where applic.): _____ °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input checked="" type="checkbox"/> Marsh / Thicket Swamp <input type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input checked="" type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
UTM: <u>S9S248</u> <u>E 47844311</u> <u>N</u> Veg. Unit Reference (where applic.): _____		

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	<u>Nothing heard.</u>									
<b>Count</b>										
Comments/Additional Observations: <u>Streetlight near marsh. Cars regularly driving by.</u>										

<b>Station ID:</b> _____ Description: _____ Time (24 hr): _____ Station Direction: _____ (e.g. NW) Water Temp (where applic.): _____ °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input type="checkbox"/> Agricultural Field / Meadow <input type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
UTM: _____ E _____ N Veg. Unit Reference (where applic.): _____		

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>										
<b>Count</b>										
Comments/Additional Observations:										

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

# Amphibian Call Survey<sup>1</sup>



**Project Name:** Snell's Hollow East  
Secondary Plan

**Project No:** 30048952

**Observers:** NP, JLR

**Total # of Stations:** 4

**Survey Time:** Start: 21:55 End: 22:42 (24 hr)

**Date:** June 21, 2019

**Air Temperature (°C):** Start: 19 End: 17 **RH (%):** 52 **Sky Code<sup>2</sup>:** 0 **Wind Scale<sup>3</sup>:** 2

**Overnight Temp (21:00 to 5:00):** High: 16 Low: 12 **Overnight Precip?**  YES  NO

**Station ID:** 4

**Description:** Large pond

**Time (24 hr):** 21:55

**Station Direction:** NW (e.g. NW)

**Water Temp (where applic.):** \_\_\_\_\_ °C

**Landscape Context:**

- Upland Forest
- Treed Swamp
- Marsh / Thicket Swamp
- Agricultural Field / Meadow
- Suburban / Urban
- Other: \_\_\_\_\_

**Water Feature:**

- Excavated Ditch/Pond
- Natural swale / depression / pond
- Impoundment
- Marsh
- Swamp
- Vernal Pool
- Other: \_\_\_\_\_

**UTM:** 596069 E 4844844 N **Veg. Unit Reference (where applic.):** \_\_\_\_\_

Call Code <sup>5</sup>	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
							1			
<b>Count</b>							3			

**Comments/Additional Observations:**  
Heard coyote gipping near-pond, possibly a juvenile (pup).  
Busy traffic behind us.

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

# Amphibian Call Survey<sup>1</sup>



<b>Station ID:</b> <u>1</u> <b>Description:</b> <u>By the barn on Kennedy</u> <b>Time (24 hr):</b> <u>22:00</u> <b>Station Direction:</b> <u>NE</u> (e.g. NW) <b>Water Temp (where applic.):</b> <u>    </u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input checked="" type="checkbox"/> Marsh / Thicket Swamp <input type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: <u>    </u>	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input checked="" type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: <u>    </u>
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**UTM:** 59S248 E 4844311 N **Veg. Unit Reference (where applic.):**     

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	<u>None heard.</u>									
<b>Count</b>	<u>    </u>									

**Comments/Additional Observations:**  
Busy traffic behind us.

<b>Station ID:</b> <u>3</u> <b>Description:</b> <u>In the field by the trees</u> <b>Time (24 hr):</b> <u>20:25</u> <b>Station Direction:</b> <u>NW</u> (e.g. NW) <b>Water Temp (where applic.):</b> <u>    </u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input checked="" type="checkbox"/> Treed Swamp <u>(fall shrubs)</u> <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: <u>    </u>	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input checked="" type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: <u>    </u>
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**UTM:** 59S893 E 4844549 N **Veg. Unit Reference (where applic.):**     

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	<u>Nothing heard.</u>									
<b>Count</b>	<u>    </u>									

**Comments/Additional Observations:**  
Very busy traffic surrounding station.

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

# Amphibian Call Survey<sup>1</sup>



<b>Station ID:</b> <u>2</u> <b>Description:</b> <u>SWM pond at corner</u> <b>Time (24 hr):</b> <u>22:39</u> <b>Station Direction:</b> <u>SW</u> (e.g. NW) <b>Water Temp (where applic.):</b> _____ °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input checked="" type="checkbox"/> Other: <u>SWM pond.</u>
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**UTM:** 595474 **E** 4844194 **N** **Veg. Unit Reference (where applic.):** \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>							1			
<b>Count</b>							3			
<b>Comments/Additional Observations:</b>										

<b>Station ID:</b> _____ <b>Description:</b> _____ <b>Time (24 hr):</b> _____ <b>Station Direction:</b> _____ (e.g. NW) <b>Water Temp (where applic.):</b> _____ °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input type="checkbox"/> Agricultural Field / Meadow <input type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
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**UTM:** \_\_\_\_\_ **E** \_\_\_\_\_ **N** **Veg. Unit Reference (where applic.):** \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>										
<b>Count</b>										
<b>Comments/Additional Observations:</b>										

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
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 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

# Amphibian Call Survey<sup>1</sup>



<b>Project Name:</b> <u>Snell's Hollow East</u>	<b>Project No:</b> <u>300043952</u>
<b>Observers:</b> <u>Nadine Price, Stewart Gibson.</u>	<b>Total # of Stations:</b> <u>4</u>
<b>Survey Time:</b> Start: <u>20:37</u> End: <u>21:18</u> (24 hr)	<b>Date:</b> <u>Apr. 6, 2020</u>
<b>Air Temperature (°C):</b> Start: <u>10</u> End: <u>9.3</u> <b>RH (%):</b> <u>40</u> <b>Sky Code<sup>2</sup>:</b> <u>2</u> <b>Wind Scale<sup>3</sup>:</b> <u>2</u>	
<b>Overnight Temp (21:00 to 5:00):</b> High: <u>10</u> Low: <u>2</u> <b>Overnight Precip?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

<b>Station ID:</b> <u>AMPH-1</u> Description: <u>By the barn on Kennedy Rd.</u> Time (24 hr): <u>20:37</u> Station Direction: <u>NE</u> (e.g. NW) Water Temp (where applic.): _____ °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input checked="" type="checkbox"/> Marsh / Thicket Swamp <input type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input checked="" type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
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**UTM:** S95248 **E** 4844311 **N** **Veg. Unit Reference (where applic.):** \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	<u>None</u>									
<b>Count</b>										

**Comments/Additional Observations:**  
Background noise - high - traffic.  
Have started filling pond a bit (see photos from Apr. 3 in Sharepoint).

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable





<b>Station ID:</b> <u>ANPH 2</u> Description: <u>SWM pond (Kennedy Rd and Mayfield Rd)</u> Time (24 hr): <u>20:47</u> Station Direction: <u>SW</u> (e.g. NW) Water Temp (where applic.): <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input checked="" type="checkbox"/> Other: <u>SWM pond.</u>
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UTM: 595474 E 4844194 N Veg. Unit Reference (where applic.): \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	<del>None</del>									
<b>Count</b>	<del> </del>									

Comments/Additional Observations:

<b>Station ID:</b> <u>ANPH 4</u> Description: <u>Open water pond</u> Time (24 hr): <u>21:03</u> Station Direction: <u>NW</u> (e.g. NW) Water Temp (where applic.): <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input checked="" type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
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UTM: 596016.46 E 4844812.91 N Veg. Unit Reference (where applic.): \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	<del>None</del>									
<b>Count</b>	<del> </del>									

Comments/Additional Observations:  
American Woodcock calling west of pond.

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

# Amphibian Call Survey<sup>1</sup>



<b>Station ID:</b> <u>AMP43</u> <b>Description:</b> <u>In the field, near red stake.</u> <b>Time (24 hr):</b> <u>21:15</u> <b>Station Direction:</b> <u>NW</u> (e.g. NW) <b>Water Temp (where applic.):</b> <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input checked="" type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input checked="" type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
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**UTM:** 595693 **E** 4844549 **N** **Veg. Unit Reference (where applic.):** —

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	<u>3</u>									
<b>Count</b>	<u>N/A</u>									

**Comments/Additional Observations:**  
Some background traffic noise.

<b>Station ID:</b> _____ <b>Description:</b> _____ <b>Time (24 hr):</b> _____ <b>Station Direction:</b> _____ (e.g. NW) <b>Water Temp (where applic.):</b> _____ °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input type="checkbox"/> Agricultural Field / Meadow <input type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
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**UTM:** \_\_\_\_\_ **E** \_\_\_\_\_ **N** **Veg. Unit Reference (where applic.):** \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>										
<b>Count</b>										

**Comments/Additional Observations:**

<sup>2</sup>NAAMP/ Beaufort Sky Codes

- 0 = clear (no cloud cover)
- 1 = partly cloudy (scattered or broken) or variable
- 2 = cloudy or overcast
- 3 = sandstorm, duststorm or blowing snow
- 4 = fog, smoke, thick dust, or haze
- 5 = drizzle or light rain
- 6 = rain
- 7 = snow or snow/rain mix
- 8 = showers
- 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale

- 0 = calm, smoke rises vertically (0-2km/hr)
- 1 = Light air movement, smoke drifts (3-5)
- 2 = Slight breeze, wind felt on face; leaves rustle (6-11)
- 3 = Gentle breeze, leaves & twigs in constant motion (12-19)
- 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);
- 5 = Fresh breeze, small trees begin to sway (31-39)
- 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species

- American Toad (AMTO)
- Northern Leopard Frog (NLFR)
- Green Frog (GRFR)
- Chorus Frog (CHFR)
- Gray Treefrog (GRTR)
- Wood Frog (WOFR)
- Bullfrog (BULL)
- Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes

- Level 1 – individual calls can be counted, no overlap
- Level 2 – some calls can be counted, some overlap
- Level 3 – calls continuous and overlapping, individuals not distinguishable

<sup>1</sup>This sheet was developed following guidelines of the Marsh Monitoring Program (MMP) developed by Bird Studies Canada, in partnership with Environment Canada

# Amphibian Call Survey<sup>1</sup>



**Project Name:** Snell's Hollow East CEISMP **Project No.:** 300043952

**Observers:** Nadine Price, Meredith Meeker **Total # of Stations:** 4

**Survey Time:** Start: 21:09 End: 21:54 (24 hr) **Date:** May 16/20

**Air Temperature (°C):** Start: 16.5 End: 10.7 **RH (%):** 67 **Sky Code<sup>2</sup>:** 1 **Wind Scale<sup>3</sup>:** 2

**Overnight Temp (21:00 to 5:00):** High: 12 Low: 9 **Overnight Precip?**  YES  NO

**Station ID:** AMPH-1

**Description:** By the barn on Kennedy Rd.

**Time (24 hr):** 21:09

**Station Direction:** NE (e.g. NW)

**Water Temp (where applic.):** — °C

**Landscape Context:**

- Upland Forest
- Treed Swamp
- Marsh / Thicket Swamp
- Agricultural Field / Meadow
- Suburban / Urban
- Other: \_\_\_\_\_

**Water Feature:**

- Excavated Ditch/Pond
- Natural swale / depression / pond
- Impoundment
- Marsh
- Swamp
- Vernal Pool
- Other: \_\_\_\_\_

**UTM:** 59S248 E 4444311 N **Veg. Unit Reference (where applic.):** —

Call Code <sup>5</sup>	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<u>None</u>										
<b>Count</b>										

**Comments/Additional Observations:**  
Busy traffic on road behind us.

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup>Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

# Amphibian Call Survey<sup>1</sup>



<b>Station ID:</b> <u>AMPH-2</u> <b>Description:</b> <u>SWM pond (Kennedy Rd + Mayfield Rd)</u> <b>Time (24 hr):</b> <u>21:19</u> <b>Station Direction:</b> <u>SW</u> (e.g. NW) <b>Water Temp (where applic.):</b> <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input checked="" type="checkbox"/> Other: <u>SWM pond</u>
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**UTM:** 59S474 E 4844194 N **Veg. Unit Reference (where applic.):** —

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>				<u>2</u>						
<b>Count</b>				<u>3</u>						

**Comments/Additional Observations:**  
2 Canada Geese on pond.  
SPPE were calling across road (diagonally) but not on site.

<b>Station ID:</b> <u>AMPH4</u> <b>Description:</b> <u>Open water pond</u> <b>Time (24 hr):</b> <u>21:39</u> <b>Station Direction:</b> <u>NW</u> (e.g. NW) <b>Water Temp (where applic.):</b> <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input checked="" type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
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**UTM:** 59G016.46 E 4844812.91 N **Veg. Unit Reference (where applic.):** —

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>				<u>2</u>						
<b>Count</b>				<u>7</u>						

**Comments/Additional Observations:**  
Traffic nearby on road and fireworks going off nearby during survey.

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

# Amphibian Call Survey<sup>1</sup>



<b>Station ID:</b> <u>AMP#3</u> Description: <u>In the field, near red stake.</u> Time (24 hr): <u>21:51</u> Station Direction: <u>NW</u> (e.g. NW) Water Temp (where applic.): <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input checked="" type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input checked="" type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
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UTM: 595693 E 4844549 N Veg. Unit Reference (where applic.): —

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	<u>None</u>									
<b>Count</b>										

Comments/Additional Observations:  
Am. Robin called at end of survey.  
Fireworks in distance.

<b>Station ID:</b> _____ Description: _____ Time (24 hr): _____ Station Direction: _____ (e.g. NW) Water Temp (where applic.): _____ °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input type="checkbox"/> Agricultural Field / Meadow <input type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
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UTM: \_\_\_\_\_ E \_\_\_\_\_ N Veg. Unit Reference (where applic.): \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>										
<b>Count</b>										

Comments/Additional Observations:

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
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 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>3</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
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 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

# Amphibian Call Survey<sup>1</sup>



<b>Project Name:</b> <u>Snell's Hollow East CEISMP</u>		<b>Project No.:</b> <u>300043952</u>
<b>Observers:</b> <u>Nadine Price, Meredith Meeker</u>		<b>Total # of Stations:</b> <u>4</u>
<b>Survey Time:</b> Start: <u>21:34</u> End: <u>22:10</u> (24 hr)		<b>Date:</b> <u>June 17, 2020</u>
<b>Air Temperature (°C):</b> Start: <u>20.3</u> End: <u>18</u> <b>RH (%):</b> <u>49</u> <b>Sky Code<sup>2</sup>:</b> <u>0</u> <b>Wind Scale<sup>3</sup>:</b> <u>1</u>		
<b>Overnight Temp (21:00 to 5:00):</b> High: <u>21</u> Low: <u>14</u>		<b>Overnight Precip?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

<b>Station ID:</b> <u>AMP44</u> <b>Description:</b> <u>Open water pond</u> <b>Time (24 hr):</b> <u>21:59</u> <b>Station Direction:</b> <u>NW</u> (e.g. NW) <b>Water Temp (where applic.):</b> <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input checked="" type="checkbox"/> Excavated Ditch/Pond <input checked="" type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____								
<b>UTM:</b> <u>596016.46</u> <b>E</b> <u>4844812.91</u> <b>N</b> <b>Veg. Unit Reference (where applic.):</b> _____										
<b>Species<sup>4</sup></b>										
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>					1		1			
<b>Count</b>					1		3			
<b>Comments/Additional Observations:</b>										

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
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<sup>3</sup> Beaufort Wind Scale  
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<sup>4</sup>Typical Species  
 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable

# Amphibian Call Survey<sup>1</sup>



<b>Station ID:</b> <u>AMPH3</u> Description: <u>In the field, near red stake</u> Time (24 hr): <u>22:07</u> Station Direction: <u>NW</u> (e.g. NW) Water Temp (where applic.): <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input checked="" type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input checked="" type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
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UTM: 595693 E 484454 N Veg. Unit Reference (where applic.): \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	<del>None</del>									
<b>Count</b>	<del></del>									
Comments/Additional Observations:										

<b>Station ID:</b> <u>AMPH2</u> Description: <u>SWM pond (Kennedy Rd and Mayfield)</u> Time (24 hr): <u>21:42</u> Station Direction: <u>SW</u> (e.g. NW) Water Temp (where applic.): _____ °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input checked="" type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input checked="" type="checkbox"/> Other: <u>SWM pond</u>
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UTM: 595474 E 4844194 N Veg. Unit Reference (where applic.): \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
<b>Call Code<sup>5</sup></b>	<del>None</del>									
<b>Count</b>	<del></del>									
Comments/Additional Observations: Heard 1 green frog during turtle nesting survey earlier in evening here, however none called during amphibian survey. Felt much cooler by SWM pond than by road.										

<sup>2</sup>NAAMP/Beaufort Sky Codes

- 0 = clear (no cloud cover)
- 1 = partly cloudy (scattered or broken) or variable
- 2 = cloudy or overcast
- 3 = sandstorm, duststorm or blowing snow
- 4 = fog, smoke, thick dust, or haze
- 5 = drizzle or light rain
- 6 = rain
- 7 = snow or snow/rain mix
- 8 = showers
- 9 = thunderstorms

<sup>3</sup>Beaufort Wind Scale

- 0 = calm, smoke rises vertically (0-2km/hr)
- 1 = Light air movement, smoke drifts (3-5)
- 2 = Slight breeze, wind felt on face; leaves rustle (6-11)
- 3 = Gentle breeze, leaves & twigs in constant motion (12-19)
- 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);
- 5 = Fresh breeze, small trees begin to sway (31-39)
- 6 = Strong breeze, large branches in motion (40-50)

<sup>4</sup>Typical Species

- American Toad (AMTO)
- Northern Leopard Frog (NLFR)
- Green Frog (GRFR)
- Chorus Frog (CHFR)
- Gray Treefrog (GRTR)
- Wood Frog (WOFR)
- Bullfrog (BULL)
- Spring Peeper (SPPE)

<sup>5</sup>Call Level Codes

- Level 1 – individual calls can be counted, no overlap
- Level 2 – some calls can be counted, some overlap
- Level 3 – calls continuous and overlapping, individuals not distinguishable

<sup>1</sup>This sheet was developed following guidelines of the Marsh Monitoring Program (MMP) developed by Bird Studies Canada, in partnership with Environment Canada



<b>Station ID:</b> <u>AMPHI</u> Description: <u>By the barn on Kennedy Rd.</u> Time (24 hr): <u>21:34</u> Station Direction: <u>NE</u> (e.g. NW) Water Temp (where applic.): <u>—</u> °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input checked="" type="checkbox"/> Marsh / Thicket Swamp <input type="checkbox"/> Agricultural Field / Meadow <input checked="" type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input checked="" type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

UTM: S9S248 E 4844311 N Veg. Unit Reference (where applic.): —

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
Call Code <sup>5</sup>	<u>None</u>									
Count										

Comments/Additional Observations:  
Busy traffic nearby on road - making lots of noise.

<b>Station ID:</b> _____ Description: _____ Time (24 hr): _____ Station Direction: _____ (e.g. NW) Water Temp (where applic.): _____ °C	<b>Landscape Context:</b> <input type="checkbox"/> Upland Forest <input type="checkbox"/> Treed Swamp <input type="checkbox"/> Marsh / Thicket Swamp <input type="checkbox"/> Agricultural Field / Meadow <input type="checkbox"/> Suburban / Urban <input type="checkbox"/> Other: _____	<b>Water Feature:</b> <input type="checkbox"/> Excavated Ditch/Pond <input type="checkbox"/> Natural swale / depression / pond <input type="checkbox"/> Impoundment <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Vernal Pool <input type="checkbox"/> Other: _____
-----------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

UTM: \_\_\_\_\_ E \_\_\_\_\_ N Veg. Unit Reference (where applic.): \_\_\_\_\_

	Species <sup>4</sup>									
	WOFR	CHFR	SPPE	AMTO	GRTR	NLFR	GRFR	BULL	Other:	Other:
Call Code <sup>5</sup>										
Count										

Comments/Additional Observations:

<sup>2</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
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 American Toad (AMTO)  
 Northern Leopard Frog (NLFR)  
 Green Frog (GRFR)  
 Chorus Frog (CHFR)  
 Gray Treefrog (GRTR)  
 Wood Frog (WOFR)  
 Bullfrog (BULL)  
 Spring Peeper (SPPE)

<sup>5</sup> Call Level Codes  
 Level 1 – individual calls can be counted, no overlap  
 Level 2 – some calls can be counted, some overlap  
 Level 3 – calls continuous and overlapping, individuals not distinguishable





## Summary Candidate Bat Maternity Roost Data Form for Area Surveys

<p><b>ELC Code:</b> <u>All trees within area of impact + 50 meters</u>          (i.e. FOD, FOM, FOC, SWM, SWD, SWC)</p>							
<b>Project Name:</b>	Snell's Hollow East EIS			<b>Project Number:</b>	300043952		
<b>Date:</b>	April 24, 2020	<b>Start Time:</b>		<b>End Time:</b>		<b>Surveyor(s) (initials):</b>	SA MM
<b>Location:</b>	Mayfield Rd + Kennedy Rd.			<b>Weather Conditions (air temp, precipitation):</b>			
<b>Survey Area Size (ha):</b>							
<b>Community Age:</b>				<b>Other Community Notes:</b>			
<b>Incidental Observations:</b>							
<b>Survey Area Centre UTM (Zone: _____)</b>							

<b>No. Cavity Trees</b>

8 hrs total.  
 drive time = 30 mins x 2 = 1hr.  
 survey time = 7hrs  
 Mileage = 75 Km x 2 = 150km

Dead vole



ELC Code: \_\_\_\_\_

Percent (%) Canopy Cover of Ecosite (i.e., open vs closed): \_\_\_\_\_

### Identification of Candidate Maternity Roosting Habitat Trees in Survey Area

Tree ID	Approx. Tree Height (m)	No. of Cavities, Crevices, Cracks, etc.	DBH	Significant Features Significant peeling bark, type of cavities (i.e., excavated, knot hole, crack/seam)	Approx. Cavity Height (m)	Tree Species	Decay Class (1-6)	UTM or Waypoint ID (17T)	
								E	N
1	15		81	large hollow in main trunk, several knot cavities furrowed bark	4, 7, 10, 13	Sugar Maple Acer Saccharum	2	407	
2	16		93	woodpecker, knot hole, cavity	8, 5	Sugar Maple	2	408	
3	8		81	knot hole, hollow trunk, crevice 3-8m	2, 3-8	Sugar Maple	4	409	
4	16		89	crevice, knot hole	7, 10	Sugar Maple	1	410	
5	9		69	crevices small-large	3, 4, 5	dead	6	411	
6	15		91	large crevice (as nest) cavity, broken branch	4, 3	sugar maple	2	412	
7	11		61	crevice	6	black/buttont walnut?	3	413	*
8	12		83	trunk hollow (1-3)	8, 1, 3, 5	black walnut/buttont?	2	414	*
9	14		66	crevices and cracks along main trunk, deeply furrowed bark	1-6	willow?	2	416	
10	14		68	deeply furrowed bark, cavities	6, 7, 5	Willow?	2	417	
11	12		45	barbed wire around trunk, lots of woodpecker holes	2, 3, 4, 5	Eastern cedar	2	418	
12				wetland edge, BCCH nest in tree		?		419	
13	10		55	cavity in main trunk	7	?	1-2	420	

BRTH?

Project and Site Data			
Project No.:		Project Name: <i>Snell's Hollow East</i>	Date: <i>June 18, 2020</i>
Surveyors:	<i>Sarah Robbins</i>		
Weather Conditions:	<i>Sunny, 27°C, no cloud or wind</i>	Location UTM: E	N

**Suitable Maternity Roost Trees for Tri-colored Bat**

Tree ID	Species	DBH	Height	Waypoint Number	Tree Location and Attributes (check all that apply)					
					Forest Interior (>20 meters)	Open Area/Forest Gap	Forest Edge	Preferred Tree Within 10 m	Identified During Leaf-off?	Dead or Dying Leaf Cluster
1	Norway Maple	18	10	482		✓		✓		
2	"	16	10	483		✓		✓		Minor
3	"	18	10	484		✓		✓		
4	Sugar Maple	35	15	485		✓		✓		
5	"	26	15	"				✓		
6	"	26	15	"				✓		
7	"	18	13	"				✓		
8	"	29	15	"				✓		
9	"	30	18	487						
10	Red Royal maple	35	approx 18		Residential property - very front yard					
11	Silver maple	20	du at trunk	16						
12	"	35	17							
13	"	30	16							
14	"	30	16							
15	Norway Maple	25	16							
16	Silver Maple	30	17							
17	Silver Maple	30	17							

all in area where acoustics were performed

7. ID	Species	DBH	Height	Waypoint	Location w/in forest.	Dead or Dring leaflets?	Dead or Dring leaf cluster?
18	Red pine	25	12		Residential lot border		
19	"	20	10				
20	"	25	12				
21	Silver maple	38	15				
22	Silver Maple	40	15				
23	"	"	"				
24	"	50	18				
25	Sugar maple	79	18	488	Hedge row - contains maple	Yes	
26	"	17	15	489	" acer negundo	NO	
27	"	17	15	480	"	"	
28	"	22	15	491			Nesting Robin
29	"	~100	20	492		Yes	
30	"	90	20	493		yes	
31	"	~90	20	494		yes	Barn swallows
32	"	30	15	495		NO	
33	"	69	18	496	Next to Bn	Yes	
34	"	32	13	497	wetland edge next to ag field	N	(YES)
35	"	25	13	498		N	
36	"	17	12	499		N	
37	"	15	13	500		N	~
38	<del>Red</del> pine	~20	8	501	open field next to ag field (North)	N	~
39	Scots pine	~20	8	502		N	~

**Project and Site Data**

Project No.:		Project Name:	Snell's Hollow	Date:	June 18, 2020
Surveyors:	SK + SAR				
Weather Conditions:	Sunny, 30°C		Location UTM:	E	N

**Suitable Maternity Roost Trees for Tri-colored Bat**

Tree ID	Species	DBH	Height	Waypoint Number	Tree Location and Attributes (check all that apply)					
					Forest Interior (>20 meters)	Open Area/Forest Gap	Forest Edge	Preferred Tree Within 10 m	Identified During Leaf-off?	Dead or Dying Leaf Cluster
50	Norway Maple	42	15	502	Residential property				✓	N
51	Silver Maple	74	18	503						
52	White Pine	46	20	503						
53	Scotts Pine	41	19	504						
54	Red Maple	17	8	505						
55	Silver Maple	~80	25	/	behind residential lot					
56	"	~70	25	/	↳ (dogs in area)					
57	Sugar	?	20	/						
58	Scotts Pine	15	8	506						
59	"	20	8	507						
60	"	25	8	508						
61	"	20	6	508						
62	"	28	8	509		another next to it				
63	"	45	8	510						
64	"	15	6	511						

**Entrance/Exit Bat Surveys for Anthropogenic Structures**

<b>Project Name:</b> Snell's Hollow Farm		<b>Project Number:</b>	
<b>Surveyors:</b> SL		<b>Weather Conditions:</b> Mild	
<b>Date:</b> July 11, 2020		<b>Wind<sup>1</sup>:</b> 2	<b>Cloud<sup>2</sup>:</b> 0
<b>Time:</b> 8:30	<b>Start:</b> 8:30	<b>End:</b> 10:00 pm	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> <span style="font-size: 2em;">1</span> </div>
<b>Temperature</b>			
<b>GPS Location of survey pt (UTM)</b>		<b>Start (°C):</b> 22	
		<b>E (m):</b> 595324	<b>Direction facing Structure:</b> East
		<b>N (m):</b> 4844336	
<b>Structure Name/Description:</b> Heritage House - brick structure, including chimneys, windows sills			

Survey Data			
Time:	(30 mins) 8:30 - 9:00	(30 mins) 9:01 - 9:30	(30 mins) 9:31 - 10:00
<b>Structure (tally):</b>	⊘	⊘	⊘
<b>Species<sup>3</sup> (heterodyne detection):</b>	⊘	⊘	⊘

**Notes:** Eastern Cottontail, Coyote

No bats observed or call recorded.

Point of structure where bats were observed exiting from: ⊘

**<sup>1</sup>Beaufort Wind Scale**

0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)  
 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

**<sup>2</sup>NAAMP/ Beaufort Sky Codes**

0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze  
 5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

**<sup>3</sup>Bat Species of Ontario:**

Big Brown Bat (*Eptesicus fuscus*: EPTFUS)  
 Silver-haired Bat (*Lasionycteris noctivagans*: LASNOC)  
 Eastern Red Bat (*Lasiurus borealis*: LASBOR)  
 Hoary Bat (*Lasiurus cinereus*: LASCIN)  
 Eastern Small-footed Bat (*Myotis leibii*: MYOLEI) – SARO: ENDANGERED  
 Little Brown Bat (*Myotis lucifugus*: MYOLUC) – SARO: ENDANGERED  
 Northern Myotis (*Myotis septentrionalis*: MYOSEP) – SARO: ENDANGERED  
 Tri-coloured Bat (*Perimyotis subflavus*: PERSUB) (formerly Eastern Pipistrelle (*Pipistrellus pipistrellus*) – SARO: ENDANGERED



Project Name: <u>Snells Hollow CEISMP</u>		Project Number:		Exit Survey No. <u>(1/2)</u>
Surveyors: <u>MM, SR, HN</u>		Weather Conditions		
Date: <u>June 11, 2010</u>		Wind <sup>1</sup> : <u>3</u>	Cloud <sup>2</sup> : <u>0</u>	
Time	Start: <u>8:30</u>	End: <u>9:40</u>	Temperature	
GPS Location of survey pt (UTM)	E (m): <u>595324</u>	Start (°C): <u>20.8</u>	End (°C): <u>19.5</u>	
	N (m): <u>4844336</u>	Direction facing Structure: <u>SE</u>		
Structure Name/Description: <u>old home, North Side, Antenna</u>				

Survey Data			
Time: <u>8:30</u>	(30 mins)	(30 mins)	(30 mins)
Structure (tally):	<u>∅</u>	<u>∅</u>	
Species <sup>3</sup> (heterodyne detection):			

Notes: KILL, AMRO, WAVI, GBBHEx2, CHSP, SOSP, BRWBL, GRCA, BARS

Eastern Cottontail, Vole Sp, Mouse, Coyote

**<sup>1</sup>Beaufort Wind Scale**

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 Hoary Bat (*Lasiurus cinereus*: LASCIN)  
 Eastern Small-footed Bat (*Myotis leibii*: MYOLEI) – SARO: ENDANGERED  
 Little Brown Bat (*Myotis lucifugus*: MYOLUC) – SARO: ENDANGERED  
 Northern Myotis (*Myotis septentrionalis*: MYOSEP) – SARO: ENDANGERED  
 Tri-coloured Bat (*Perimyotis subflavus*: PERSUB) (formerly Eastern Pipistrelle (*Pipistrellus Pipistrellus*) – SARO: ENDANGERED)



Project Name: <i>Swill's Hollow</i>		Project Number:	
Surveyors: <i>MM, SR, CR</i>		Weather Conditions	
Date: <i>June 30, 2020</i>		Wind <sup>1</sup> : <i>1</i>	Cloud <sup>2</sup> : <i>66</i>
Time	Start: <i>8:33</i>	End: <i>10:03</i>	Temperature
GPS Location of survey pt (UTM)	E (m):	Start (°C): <i>24</i>	End(°C):
	N (m):	Direction facing Structure: <i>S</i>	
Structure Name/Description:			

Exit Survey No. (1/2)

*2*

Survey Data			
Time:	(30 mins)	(30 mins)	(30 mins)
Structure (tally):			
Species <sup>3</sup> (heterodyne detection):			

Notes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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- Eastern Red Bat (*Lasiurus borealis*: LASBOR)
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- Eastern Small-footed Bat (*Myotis leibii*: MYOLEI) – SARO: ENDANGERED
- Little Brown Bat (*Myotis lucifugus*: MYOLUC) – SARO: ENDANGERED
- Northern Myotis (*Myotis septentrionalis*: MYOSEP) – SARO: ENDANGERED
- Tri-coloured Bat (*Perimyotis subflavus*: PERSUB) (formerly Eastern Pipistrelle (*Pipistrellus pipistrellus*) – SARO: ENDANGERED)





Project Name: <u>Snell's Hollow East</u>		Project Number:	
Surveyors: <u>GA</u>		Weather Conditions	
Date: <u>June 30, 2020</u>		Wind <sup>1</sup> : <u>2</u>	Cloud <sup>2</sup> : <u>2</u>
Time	Start: <u>8:33</u> End: <u>10:03</u>	Temperature	
GPS Location of survey pt (UTM)	E (m):	Start (°C): <u>24</u>	End(°C):
	N (m):	Direction facing Structure: <u>NW</u>	
Structure Name/Description: <u>Brick - heritage House</u>			

2

Survey Data			
Time:	(30 mins)	(30 mins)	(30 mins)
Structure (tally):			
Species <sup>3</sup> (heterodyne detection):			

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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 Little Brown Bat (*Myotis lucifugus*: MYOLUC) – SARO: ENDANGERED  
 Northern Myotis (*Myotis septentrionalis*: MYOSEP) – SARO: ENDANGERED  
 Tri-coloured Bat (*Perimyotis subflavus*: PERSUB) (formerly Eastern Pipistrelle (*Pipistrellus pipistrellus*) – SARO: ENDANGERED



Project Name: <u>SNELL'S</u>		Project Number:	
Surveyors: <u>S. RADOVIC</u>		Weather Conditions	
Date: <u>JUNE 30, 2020</u>		Wind <sup>1</sup> : <u>1-2</u>	Cloud <sup>2</sup> : <u>1</u>
Time	Start: <u>20:33</u>   End:	Temperature	
GPS Location of survey pt (UTM)	E (m):	Start (°C): <u>24</u>	End (°C):
	N (m):	Direction facing Structure: <u>NE</u>	
Structure Name/Description: <u>House - abandoned</u>			

Survey Data			
Time:	(30 mins)	(30 mins)	(30 mins)
Structure (tally):	/	/	/
Species <sup>3</sup> (heterodyne detection):			

Notes: Kennedy facing @ shutters movement small bodies scaling brick & scouching behind virginia creeper covered shutters.

Killdeer distant firecrackers constant traffic hum & birds calling occasional dog bark muscle cars revving

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- Eastern Small-footed Bat (*Myotis leibii*: MYOLEI) – SARO: ENDANGERED
- Little Brown Bat (*Myotis lucifugus*: MYOLUC) – SARO: ENDANGERED
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- Tri-coloured Bat (*Perimyotis subflavus*: PERSUB) (formerly Eastern Pipistrelle (*Pipistrellus pipistrellus*) – SARO: ENDANGERED

PROJECT, SITE DATA & WEATHER					SUMMARY COUNT					
Project No.: 30043952		Project Title: Snell's Hollow East Secondary Plan CEISMP			Pt. Count #	Start Time	End Time	UTM Easting	UTM Northing	
Date (yy/mm/dd): 20/05/25		Site Name: Snell's Hollow			1	06:48	06:58	595448	4844311	
Survey # 1		Crew Members (initials): NP			2	08:44	08:54	595438	4844565	
Temp. (°C): 20	Precip. (mm): 0	Cloud Cover (%): 5	Wind (km/hr) (Beaufort): 1		3	09:02	09:02	595558	4844615	
Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50).					4					
					5					
Comments: Due to the habitat being not suitable at point count #3 (EAME-BOBO-03) - too many trees and shrubs, this will no longer be treated as an EAME-BOBO station for the next surveys. It will be a regular BBS station and be called "BBS-15"										
BOBOLINK POINT/EASTERN MEADOWLARK COUNT & TRANSECT DATA SHEET										
Trans. #	Pt. Count #	Habitat Unit (field, hedgerow, etc.)	Species (BOBO-EAME)	Time of Obs.	# of Individ.	Sex M/F/U	Behaviour (breeding evidence codes)	Direction from Obs.	Distance from Obs.	Comments
1	1	Cultivated meadow	None							
1	2	Cultivated meadow	None							
1	3	Cultivated meadows with trees	None							

-changed to BBS-15 for next survey.

PROJECT, SITE DATA & WEATHER				SUMMARY COUNT					
Project No.: 300043952		Project Title: CEISMP Snell's Hollow		Pt. Count #	Start Time	End Time	UTM Easting	UTM Northing	
Date (yy/mm/dd): 20/05/25		Site Name: Snell's Hollow		8	6:06	6:16	596442	4845399	
Survey #	1	Crew Members (initials): MM		2	5	7:38	7:49	595910	4844780
Temp. (°C): 21	Precip. (mm): 0	Cloud Cover (%): 0	Wind (km/hr) (Beaufort): 3	3	7	8:01	8:11	596086	4844393
Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50).				4	6	8:56	9:06	595851	4844897
				5	4	9:38	9:48	595690	4844510

Comments:

**BOBOLINK POINT/EASTERN MEADOWLARK  
COUNT & TRANSECT DATA SHEET**

Trans. #	Pt. Count #	Habitat Unit (field, hedgerow, etc.)	Species (BOBO-EAME)	Time of Obs.	# of Individ.	Sex M/F/U	Behaviour (breeding evidence codes)	Direction from Obs.	Distance from Obs.	Comments
1	8	meadow	∅							
1	5	meadow	∅							
1	7	meadow	∅							
1	6	meadow	∅							
1	4	meadow	∅							

PROJECT, SITE DATA & WEATHER				SUMMARY COUNT				
Project No.: 30043952		Project Title: Snell's Hollow East Secondary plan CETSMP		Pt. Count #	Start Time	End Time	UTM Easting	UTM Northing
Date (yy/mm/dd): 20/06/08		Site Name: _____		1	07:09	07:19	595448	4844311
Survey # 2	Crew Members (initials): NP			2	08:43	08:53	595438	4844565
Temp. (°C): 11	Precip. (mm): /	Cloud Cover (%): 0	Wind (km/hr) (Beaufort): 2	3				
Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50).				4				
				5				

Comments:

**BOBOLINK POINT/EASTERN MEADOWLARK  
COUNT & TRANSECT DATA SHEET**

Trans. #	Pt. Count #	Habitat Unit (field, hedgerow, etc.)	Species (BOBO-EAME)	Time of Obs.	# of Individ.	Sex M/F/U	Behaviour (breeding evidence codes)	Direction from Obs.	Distance from Obs.	Comments
1	1	Cultivated meadow	None							
1	2	" "	None							

**BOBOLINK/EASTERN MEADOWLARK  
POINT COUNT AND TRANSECT DATA SHEET**

PROJECT, SITE DATA & WEATHER				SUMMARY COUNT				
Project No.: 300043952		Project Title: Snell's Willow CBRMP		Pt. Count #	Start Time	End Time	UTM Easting	UTM Northing
Date (yy/mm/dd): 20/06/08		Site Name: Snells		108	6:07	6:17	596442	4845399
Survey #	Crew Members (initials): MM			209	7:41	7:51	595910	4849780
Temp. (°C): 22	Precip. (mm): 0	Cloud Cover (%): 0	Wind (km/hr) (Beaufort): 2	307	8:01	8:11	596086	484439
Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50).				406	8:47	8:57	595851	484497
				504	7:00	7:10	595690	4844510

Comments:

**BOBOLINK POINT/EASTERN MEADOWLARK  
COUNT & TRANSECT DATA SHEET**

Trans. #	Pt. Count #	Habitat Unit (field, hedgerow, etc.)	Species (BOBO-EAME)	Time of Obs.	# of Indiv.	Sex M/F/U	Behaviour (breeding evidence codes)	Direction from Obs.	Distance from Obs.	Comments
1	8	Meadow	∅							
1	5	meadow	∅							
1	7	meadow	∅							
1	6	meadow	∅							
1	4	meadow	∅							

**BOBOLINK/EASTERN MEADOWLARK  
POINT COUNT AND TRANSECT DATA SHEET**

PROJECT, SITE DATA & WEATHER				SUMMARY COUNT				
Project No.: 30004392		Project Title: Snell's Hollow East Camp		Pt. Count #	Start Time	End Time	UTM Easting	UTM Northing
Date (yy/mm/dd): 20/06/22		Site Name: _____		1	07:31	07:41	595448	484311
Survey # 3	Crew Members (initials): NP			2	09:04	09:14	595438	484565
Temp. (°C): 21	Precip. (mm): 0	Cloud Cover (%): 90	Wind (km/hr) (Beaufort): 1	3				
Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50).				4				
				5				

Comments:

**BOBOLINK POINT/EASTERN MEADOWLARK  
COUNT & TRANSECT DATA SHEET**

Trans. #	Pt. Count #	Habitat Unit (field, hedgerow, etc.)	Species (BOBO-EAME)	Time of Obs.	# of Individ.	Sex M/F/U	Behaviour (breeding evidence codes)	Direction from Obs.	Distance from Obs.	Comments
1	1	Cultivated meadow	None							
1	2	"	None							

**BOBOLINK/EASTERN MEADOWLARK  
POINT COUNT AND TRANSECT DATA SHEET**

PROJECT, SITE DATA & WEATHER				SUMMARY COUNT				
Project No.: 300043952		Project Title: Small's Hollow CETSMP		Pt. Count #	Start Time	End Time	UTM Easting	UTM Northing
Date (yy/mm/dd): 20 10/6/22		Site Name: Snells		104	6:04	6:14	595690	4844510
Survey #: 3	Crew Members (Initials): MM			205	6:49	6:59	595910	4844780
Temp. (°C):	Precip. (mm)	Cloud Cover (%): 30	Wind (km/hr) (Beaufort): 0	307	7:08	7:18	596086	484439
Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50).				408	8:09	8:19	596442	4845399
				506	8:53	9:03	595951	484497

Comments:

**BOBOLINK POINT/EASTERN MEADOWLARK  
COUNT & TRANSECT DATA SHEET**

Trans. #	Pt. Count #	Habitat Unit (field, hedgerow, etc.)	Species (BOBO-EAME)	Time of Obs.	# of Indiv.	Sex M/F/U	Behaviour (breeding evidence codes)	Direction from Obs. (N, NE, E, SE, S, SW, W, NW)	Distance from Obs. (m)	Comments
1	4	meadow	Ø							
1	5	meadow	Ø							
1	7	meadow	Ø							
1	8	meadow	Ø							
1	6	meadow	Ø							



<b>ELC Community Summary Sheet</b>	<b>Polygon #</b> <i>SWT3-1</i>
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Project #: *43952* Project Name: *Snell's* Surveyor(s): *SAR / JJA* Date: *May 15 19*

<b>Community Series:</b>		<b>Ecosite:</b>	<b>Vegetation Type:</b> <i>ESS1</i> <i>SWT3-1</i>
<b>System:</b> Terrestrial Wetland Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff		<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed
<b>Cover:</b> Open Shrub Treed	<b>History:</b> Natural Cultural	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / Swamp / Bog / Marsh / Open Water / Shallow Water	

<b>Stand Description</b>		
<b>Community Age:</b> Pioneer / Young / Mid-Aged / Mature / Old Growth		<b>Basal Area (m2/ha):</b>
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		
<b>Health</b> L / M / H	<b>Sensitivity</b> L / M / H	<b>Botanical Quality</b> L / M / H
<b>Slope:</b> None / Gentle / Moderate / Steep		
Simple / Complex		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

**Height Codes** - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
**Cover Codes** - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

<b>Size Class Analysis</b> (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH
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<b>Evidence of Disturbance:</b> Tree cutting, exotic species, trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests
<b>Comments:</b>

*organic mesic/humic*

<b>Depth Sampled</b>		0
<b>Depth to Mottles</b>		
<b>Depth to Gley</b>		
<b>Depth to Bedrock</b>		
<b>Carbonates</b>		
<b>Depth to Gr. Water</b>		
<b>Depth of Organics</b>		
<b>Effective Texture</b>		
<b>Position on Slope</b>		
<b>Moisture Regime</b>		

			Community Name	Code	% of Community
Inclusion	Complex				
Inclusion	Complex				
Inclusion	Complex				

Plant List	Layer / Abundance			
	1	2	3	4
Trees				
ACERNEG				
dead snags				
SALALB				
PRUNSEF	1			

Plant List	Layer / Abundance			
	1	2	3	4
Groundlayer				
SOLADUL				
grasses + sedges				
TUPHANG				
EQUI-SP				
LYTHSAL				
CARE-SP				
HYDRVIR				
ONOCSEN				
CALCAN?				
ALAPET				
ASARTRI				

Shrubs	Layer / Abundance			
	1	2	3	4
✓ ALNUINC				
✓ ILEXVER				
✓ SALI-SP				
CORNSTO				
SALIPET				
SALIBEG				
SALIDIS				
VITIRID				
PRUNVIR				
RIBETRI				
RUBU PUB				
ROSA-SP				

deer scat RWBB

<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>	SWD6-1
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Project #: 43952 Project Name: Snell's Hollow Surveyor(s): SAR LJA Date: May 15, 19

<b>Community Series:</b>		<b>Ecosite:</b>	<b>Vegetation Type:</b> SWD6-1
<b>System:</b> Terrestrial <u>Wetland</u> Aquatic	<b>Topographic Feature:</b> Lacustrine / <u>Riverine</u> / <u>Bottomland</u> / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff		<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / <u>Deciduous</u> / Coniferous / Mixed
<b>Cover:</b> <u>Open</u> <u>Shrub</u> <u>Treed</u>	<b>History:</b> <u>Natural</u> Cultural	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / <u>Swamp</u> / Bog / Marsh / Open Water / Shallow Water	

<b>Stand Description</b>		
<b>Community Age:</b> Pioneer / Young / Mid-Aged / Mature / Old Growth		<b>Basal Area (m2/ha):</b>
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		
<b>Health</b> L / M / H	<b>Sensitivity</b> L / M / H	<b>Botanical Quality</b> L / M / H
<b>Slope:</b> None / Gentle / Moderate / Steep		
Simple / Complex		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

<b>Evidence of Disturbance:</b> Tree cutting, exotic species, trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests
<b>Comments:</b>

*organic humic/mesic*

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

		Community Name	Code	% of Community
Inclusion	Complex			
Inclusion	Complex			
Inclusion	Complex			



<b>ELC Community Summary Sheet</b>	<b>Polygon #</b> <span style="float: right;">SWT3-y SWD6-1</span>
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Project #: 43952 Project Name: Snell's Surveyor(s): SAR LJA Date: May 15 19

<b>Community Series:</b>		<b>Ecosite:</b>	<b>Vegetation Type:</b> SWT3-1/SWD6-1
<b>System:</b> Terrestrial <u>Wetland</u> Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / <u>Bottomland</u> / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff		<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / <u>Deciduous</u> / Coniferous / Mixed
<b>Cover:</b> <u>Open</u> <u>Shrub</u> <u>Freed</u>	<b>History:</b> <u>Natural</u> Cultural	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / <u>Rock Barren</u> / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / <u>Swamp</u> / Bog / Marsh / Open Water / Shallow Water	

<b>Stand Description</b>		
<b>Community Age:</b> Pioneer / Young / Mid-Aged / Mature / Old Growth	<b>Basal Area (m2/ha):</b>	
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		
<b>Health</b> L / M / H	<b>Sensitivity</b> L / M / H	<b>Botanical Quality</b> L / M / H
<b>Slope:</b> None / Gentle / Moderate / Steep <span style="float: right;">Simple / Complex</span>		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

**Height Codes** - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
**Cover Codes** - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

<b>Size Class Analysis</b> (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH
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<b>Evidence of Disturbance:</b> Tree cutting, exotic species, trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests
<b>Comments:</b>

<b>Depth Sampled</b>	<i>organic humic/mesic</i> 
<b>Depth to Mottles</b>	
<b>Depth to Gley</b>	
<b>Depth to Bedrock</b>	
<b>Carbonates</b>	
<b>Depth to Gr. Water</b>	
<b>Depth of Organics</b>	
<b>Effective Texture</b>	
<b>Position on Slope</b>	
<b>Moisture Regime</b>	

			Community Name	Code	% of Community
Inclusion	Complex				
Inclusion	Complex				
Inclusion	Complex				

SWT 37/  
SWD 6-1

Plant List	Layer / Abundance			
	1	2	3	4
Trees				
ACER RUB	0			
ULM UAME (most dead)	0			
MALV PUM				
PINUS SP				
LARIL AR				
FRAX NIG				

Plant List	Layer / Abundance			
	1	2	3	4
Groundlayer				
SOLA DUL				
grasses + sedges				
TYP HANG				A
RUBUS RUB				
ONOC SEN				
FRS VIR				
MATT STR				
LYTH SAL				A
RAN UN- SP				
CARE LAC				
DIPTERIS				T
MAI ACAN				
VIOI- SP (yellow)				
ARIS TRI				
ZOYI ADU				
CIRSARI				

Shrubs	1	2	3	4
	ALNU INC		A	
SALI- SP				
SALI DIS				
SALI BET				
CORN STD				
RHAM CAT				

AmaRO    Great blue heron.    definite SWT    moDO  
 lots of Snags.    Yellow warbler  
 Wood pecker.    AmCR    Bl. Jay

ELC Community Summary Sheet **Snell's** Polygon #

Project #: \_\_\_\_\_ Project Name: \_\_\_\_\_ Surveyor(s): **SAR LJA** Date: **May 15, 19**

Community Series:		Ecosite:	Vegetation Type: <b>MA3-1</b>
System: Terrestrial <b>Wetland</b> Aquatic	Topographic Feature: Lacustrine / Riverine / <b>Bottomland</b> / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	Dominant Plant Form: <b>Plankton</b> / Submerged / Floating-leaved / <b>Graminoid</b> / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed	
Cover: <b>Open</b> Shrub Treed	History: <b>Natural</b> Cultural	Community Class: Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / Swamp / Bog / <b>Marsh</b> / Open Water / Shallow Water	

Stand Description		Basal Area (m2/ha):
Community Age: Pioneer / Young / <b>Mid-Aged</b> / Mature / Old Growth		
Standing Snags: Rare / Occasional / Abundant / Dominant		
Deadfall Logs: Rare / Occasional / Abundant / Dominant		
Health: <b>L/M/H</b>	Sensitivity: <b>L/M/H</b>	Botanical Quality: <b>L/M/H</b>
Slope: None / <b>Gentle</b> / Moderate / Steep		Simple / Complex

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

Evidence of Disturbance: Tree cutting, exotic species, trails, dumping, noise, predation
Wildlife / Habitat Observations: Birds, mammals, calls, observed, dens, nests
Comments:

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	<b>0.9</b>
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

Community Name			Code	% of Community
Inclusion	Complex			
Inclusion	Complex			
Inclusion	Complex			





<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>
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Project #: \_\_\_\_\_ Project Name: Snell's Surveyor(s): SAR GJA Date: May 15, 19

<b>Community Series:</b> <u>Cum</u>		<b>Ecosite:</b> <u>Cum1</u>	<b>Vegetation Type:</b> <u>Cum1</u>
<b>System:</b> Terrestrial Wetland Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	<b>Dominant Plant Form:</b> <u>Plankton</u> / Submerged / Floating-leaved / <u>Graminoid</u> / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed	
<b>Cover:</b> <u>Open</u> Shrub Treed	<b>History:</b> Natural <u>Cultural</u>	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / Swamp / Bog / Marsh / Open Water / Shallow Water <u>Meadow</u>	

<b>Stand Description</b>		<b>Basal Area (m<sup>2</sup>/ha):</b>
<b>Community Age:</b> Pioneer / <u>Young</u> / Mid-Aged / Mature / Old Growth		
<b>Standing Snags:</b> <u>Rare</u> / Occasional / Abundant / Dominant		
<b>Deadfall Logs:</b> <u>Rare</u> / Occasional / Abundant / Dominant		
<b>Health:</b> <u>L</u> / M / H	<b>Sensitivity:</b> <u>L</u> / M / H	<b>Botanical Quality:</b> <u>L</u> / M / H
<b>Slope:</b> None / <u>Gentle</u> / <u>Moderate</u> / Steep		Simple / Complex

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

<b>Size Class Analysis (Rare / Occasional / Abundant / Dominant)</b>	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH
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<b>Evidence of Disturbance:</b> Tree cutting, <u>exotic species</u> , <u>trails</u> , <u>dumping</u> , noise, predation
<b>Wildlife / Habitat Observations:</b> <u>Birds</u> , mammals, calls, observed, dens, nests.
<b>Comments:</b>

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

	Community Name	Code	% of Community
Inclusion	Complex		
Inclusion	Complex		
Inclusion	Complex		

Plant List	Layer / Abundance			
	1	2	3	4
Trees				
ACERNEG	R			
POPLTR	R			
PRUNSER				
PANUSV				
THUJOC				

Plant List	Layer / Abundance			
	1	2	3	4
Groundlayer				
DAUGCAR				
POA-SP (PRA?)				D
PROMINI				0
RELSUR				
ARCTMIN				
RHIALP				
TARAOFF				
SOLICAN				
EQUIARV				
VICICRA				
PRA?				
FIRSARV				
GEUM-SP				
FRAGVIR				
LOTUCOR				
TIOSFUL				
VERBHA				
GENOBIS				
ASTECOR				
RUBBHIRT				

Shrubs	Layer / Abundance			
	1	2	3	4
SALPET				
CORNSTO				
SALLSP				
RHUSTUP				
RUBUIDS				
RHAMCAT				
CRATMON				
VIBU Wayfaring				
LONT-SP				

Bambus 

Project #: \_\_\_\_\_ Project Name: **Shell's** Surveyor(s): **SAR LJA** Date: **May 15**

<b>Polygon Description</b>		<b>Community Series:</b> <b>FOC</b>	<b>Ecosite:</b>	<b>Vegetation Type:</b>
<b>System:</b> Terrestrial Wetland Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / <b>Valley Slope</b> / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / <b>Graminoid</b> / Forb / Lichen / Bryophyte / Deciduous / <b>Coniferous</b> / Mixed		
<b>Cover:</b> Open Shrub Treed	<b>History:</b> <b>Natural</b> <b>Cultural</b>	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie – Savannah & Woodland <b>Forest</b> / Cultural / Swamp / Bog / Marsh / Open Water / Shallow Water		

<b>Stand Description</b>		<b>Basal Area (m2/ha):</b>
<b>Community Age:</b> Pioneer / Young / <b>Mid-Aged</b> / Mature / Old Growth		
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		
<b>Health:</b> L / M / H	<b>Sensitivity:</b> L / M / H	<b>Botanical Quality:</b> L / M / H
<b>Slope:</b> None / Gentle / <b>Moderate</b> / Steep		Simple / Complex

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

**Height Codes** – (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
**Cover Codes** – (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 – 24cm DBH	25 – 50cm DBH	> 50cm DBH

**Evidence of Disturbance:**  
Tree cutting, **exotic species**, trails, **dumping**, noise, predation

**Wildlife / Habitat Observations:**  
Birds, mammals, calls, observed, dens, nests

**Comments:**  
**NOT SWT3-1 as shown INTRCA ELC.**

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

		Community Name	Code	% of Community
Inclusion	Complex			
Inclusion	Complex			
Inclusion	Complex			

ELC Community Summary Sheet

Polygon #

Fec

S Saell's

Plant List	Layer / Abundance			
	1	2	3	4
Trees				
<del>THEOCC</del>	D			
BETUALL	R			
TSUGCAN	R			
PRUNSER		R		

Plant List	Layer / Abundance			
	1	2	3	4
Groundlayer				
ERYTHAME				
TARAOFF				
FRAGVIR				
ASTECOR				
ACTA-SIN				

Shrubs	Layer / Abundance			
	1	2	3	4
RHAM CAT				
CRAT <del>MAV</del>				

Seps

<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>
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Project #: 43952 Project Name: Snell's Surveyor(s): \_\_\_\_\_ Date: \_\_\_\_\_

<b>Community Series:</b>		<b>Ecosite:</b>	<b>Vegetation Type:</b> <u>ES53A</u> <u>SWT3-2</u>
<b>System:</b> Terrestrial Wetland Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed	
<b>Cover:</b> Open Shrub Tree	<b>History:</b> Natural Cultural	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / Swamp / Bog / Marsh / Open Water / Shallow Water	

<b>Stand Description</b>		
<b>Community Age:</b> Pioneer / Young / Mid-Aged / Mature / Old Growth	<b>Basal Area (m2/ha):</b>	
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		
<b>Health</b> L / M / H	<b>Sensitivity</b> L / M / H	<b>Botanical Quality</b> L / M / H
<b>Slope:</b> None / Gentle / Moderate / Steep		
Simple / Complex		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

**Height Codes** - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
**Cover Codes** - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

<b>Evidence of Disturbance:</b> Tree cutting, exotic species, trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests
<b>Comments:</b> <u>not obs in field.</u> <u>from PSW rept only</u>

<b>Depth Sampled</b>	<u>organic humic/mesic</u>
<b>Depth to Mottles</b>	
<b>Depth to Gley</b>	
<b>Depth to Bedrock</b>	
<b>Carbonates</b>	
<b>Depth to Gr. Water</b>	
<b>Depth of Organics</b>	
<b>Effective Texture</b>	
<b>Position on Slope</b>	
<b>Moisture Regime</b>	

		Community Name	Code	% of Community
Inclusion	Complex			
Inclusion	Complex			
Inclusion	Complex			



<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>	
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Project #: 43952 Project Name: Snell's Surveyor(s): \_\_\_\_\_ Date: \_\_\_\_\_

<b>Community Series:</b>		<b>Ecosite:</b>	<b>Vegetation Type:</b> <u>ne mb-D</u> <u>MAMMI-14</u>
<b>System:</b> Terrestrial <u>Wetland</u> Aquatic	<b>Topographic Feature:</b> Lacustrine / <u>Riverine</u> / <u>Bottomland</u> / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff		<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / <u>Graminoid</u> / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed
<b>Cover:</b> <u>Open</u> Shrub Tree	<b>History:</b> <u>Natural</u> Cultural	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / Swamp / Bog / <u>Marsh</u> / Open Water / Shallow Water	

<b>Stand Description</b>		<b>Soil Analysis</b>	
<b>Community Age:</b> Pioneer / Young / Mid-Aged / Mature / Old Growth		<b>Basal Area (m2/ha):</b>	<b>Soil Drainage:</b> V. Rapid / Rapid / Well / Moderately Well / Imperfect / Poor / V. Poor
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		<b>Soil Moisture Regime:</b> Dry / Fresh / Moist / Wet	
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		<b>Effective Soil Texture:</b> <u>loam</u>	
<b>Health</b> L / M / H	<b>Sensitivity</b> L / M / H	<b>Botanical Quality</b> L / M / H	<b>Depth to Mottles / Gley</b> Sample 1 M - cm / G - cm, Sample 2 M - cm / G - cm
<b>Slope:</b> None / Gentle / Moderate / Steep Simple / Complex		<b>Depth to G. Water:</b> @ m At surface / <1m / >1m	<b>Depth to Bedrock:</b> @ m At surface / <1m / >1m

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

<b>Evidence of Disturbance:</b> Tree cutting, exotic species, trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests <u>GWES: 4 SPPE, 7MIPTU, WhT. Deer</u>
<b>Comments:</b> <u>not ver in spring</u>

			Community Name	Code	% of Community
Inclusion		Complex			
Inclusion		Complex			
Inclusion		Complex			





<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>	
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Project #: 43952 Project Name: Snell's Hollow Surveyor(s): \_\_\_\_\_ Date: \_\_\_\_\_

<b>Polygon Description</b>		<b>Vegetation Type:</b> <u>FFWI-A</u> <u>SAFI-3</u>
<b>Community Series:</b>	<b>Ecosite:</b>	
<b>System:</b> Terrestrial <u>Wetland</u> <u>Aquatic</u>	<b>Topographic Feature:</b> Lacustrine / <u>Riverine</u> / Bottomland / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	<b>Dominant Plant Form:</b> Plankton / Submerged / <u>Floating-leaved</u> / Graminoid / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed
<b>Cover:</b> <u>Open</u> Shrub Tree	<b>History:</b> <u>Natural</u> Cultural	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / Swamp / Bog / Marsh / Open Water / <u>Shallow Water</u>

<b>Stand Description</b>		<b>Soil Analysis</b>	
<b>Community Age:</b> Pioneer / Young / Mid-Aged / Mature / Old Growth		<b>Soil Drainage:</b> V. Rapid / Rapid / Well / Moderately Well / Imperfect / Poor / V. Poor	
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		<b>Soil Moisture Regime:</b> Dry / Fresh / Moist / <u>Wet</u> <u>Organic</u>	
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		<b>Effective Soil Texture:</b> <u>humic/mesic</u>	
<b>Health</b> L / M / H	<b>Sensitivity</b> L / M / H	<b>Botanical Quality</b> L / M / H	<b>Depth to Mottles / Gley</b> Sample 1 M - cm / G - cm, Sample 2 M - cm / G - cm
<b>Slope:</b> None / Gentle / Moderate / Steep Simple / Complex		<b>Depth to G. Water:</b> @ m <b>Depth to Bedrock:</b> @ m At surface / <1m / >1m At surface / <1m / >1m	

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

<b>Evidence of Disturbance:</b> Tree cutting, exotic species, trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests
<b>Comments:</b> <u>not ver. in spring</u>

		Community Name	Code	% of Community
Inclusion	Complex			
Inclusion	Complex			
Inclusion	Complex			



<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>	
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Project #: 43952 Project Name: Shell's Surveyor(s): \_\_\_\_\_ Date: \_\_\_\_\_

<b>Polygon Description</b>		<b>Vegetation Type:</b> <u>ne Mb-C</u> <u>MAM2-2</u>
<b>Community Series:</b>	<b>Ecosite:</b>	
<b>System:</b> <u>Terrestrial</u> <u>Wetland</u> Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / <u>Bottomland</u> / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / <u>Graminoid</u> / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed
<b>Cover:</b> <u>Open</u> Shrub Treed	<b>History:</b> <u>Natural</u> Cultural	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / <u>Crevice-Cave</u> / Sand Barren / Tallgrass Prairie – Savannah & Woodland / Forest / Cultural / Swamp / Bog / <u>Marsh</u> / Open Water / Shallow Water

<b>Stand Description</b>		<b>Soil Analysis</b>	
<b>Community Age:</b> Pioneer / Young / Mid-Aged / Mature / Old Growth		<b>Basal Area (m2/ha):</b>	<b>Soil Drainage:</b> V. Rapid / Rapid / Well / Moderately Well / Imperfect / Poor / V. Poor
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		<b>Soil Moisture Regime:</b> Dry / Fresh / Moist / Wet	
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		<b>Effective Soil Texture:</b> <u>Loam</u>	
<b>Health</b> L / M / H	<b>Sensitivity</b> L / M / H	<b>Botanical Quality</b> L / M / H	<b>Depth to Mottles / Gley</b> Sample 1 M - cm / G - cm, Sample 2 M - cm / G - cm
<b>Slope:</b> None / Gentle / Moderate / Steep Simple / Complex		<b>Depth to G. Water:</b> @ m At surface / <1m / >1m	<b>Depth to Bedrock:</b> @ m At surface / <1m / >1m

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes – (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes – (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 – 24cm DBH	25 – 50cm DBH	> 50cm DBH

<b>Evidence of Disturbance:</b> Tree cutting, exotic species, trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests
<b>Comments:</b> <u>hot ver. in spring</u>

		Community Name	Code	% of Community
Inclusion	Complex			
Inclusion	Complex			
Inclusion	Complex			



Project #: 43952 Project Name: Snell's Hollow Surveyor(s): SA SA Date: July 11, 2019

Community Series: <b>CUM1-1</b>		Ecosite:	Vegetation Type:
System: Terrestrial Wetland Aquatic	Topographic Feature: Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / <u>tableland</u> Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	Dominant Plant Form: Plankton / Submerged / Floating-leaved / <u>Graminoid</u> / <u>Forb</u> / Lichen / Bryophyte / Deciduous / Coniferous / Mixed	
Cover: Open Shrub Tree	History: Natural <u>Cultural</u>	Community Class: Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - <u>Savannah</u> & Woodland / Forest / <u>Cultural</u> / Swamp / Bog / Marsh / Open Water / Shallow Water / <u>Meadow</u>	

Stand Description	
Community Age: Pioneer / <u>Young</u> / Mid-Aged / Mature / Old Growth	Basal Area (m2/ha):
Standing Snags: Rare / Occasional / Abundant / Dominant	
Deadfall Logs: Rare / Occasional / Abundant / Dominant	
Health L / M / H	Sensitivity <u>L</u> M / H
Botanical Quality <u>L</u> M / H	
Slope: None / <u>Gentle</u> / <u>Moderate</u> / Steep	
Simple / Complex	

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy	-	<u>0</u>	
2 Subcanopy	<u>3</u>	<u>0</u>	
3 Understorey	<u>4/5</u>	<u>0</u>	
4 Groundlayer	<u>6/7</u>	<u>0</u>	

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

Evidence of Disturbance: Tree cutting, exotic species, trails, dumping, noise, predation <u>located next to Mayfield Rd.</u>
Wildlife / Habitat Observations: Birds, mammals, calls, observed, dens, nests
Comments:

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

			Community Name	Code	% of Community
Inclusion		Complex			
Inclusion		Complex			
Inclusion		Complex			



ELC Community Summary Sheet

Polygon # 2

Project #: 43952 Project Name: Snell's Hollow Surveyor(s) SR SR Date: July 11, 2009

Community Series: <u>CUM 1-1 (b)</u>		Ecosite:	Vegetation Type:
System: Terrestrial Wetland Aquatic	Topographic Feature: Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	Dominant Plant Form: Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed	
Cover: Open Shrub Tree	History: Natural Cultural	Community Class: Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / Swamp / Bog / Marsh / Open Water / Shallow Water/Meadow	

Stand Description		
Community Age: Pioneer / Young / Mid-Aged / Mature / Old Growth	Basal Area (m <sup>2</sup> /ha):	
Standing Snags: Rare / Occasional / Abundant / Dominant		
Deadfall Logs: Rare / Occasional / Abundant / Dominant		
Health L / M / H	Sensitivity L / M / H	Botanical Quality L / M / H
Slope: None / Gentle / Moderate / Steep		
Simple / Complex		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy	-	-	
2 Subcanopy	-	-	
3 Understorey	<u>4/5</u>	<u>2</u>	
4 Groundlayer	<u>6/7</u>	<u>4</u>	

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH
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Evidence of Disturbance: Tree cutting, exotic species, trails, dumping, noise, predation <u>Located next to mayfield rd.</u>
Wildlife / Habitat Observations: Birds, mammals, calls, observed, dens, nests
Comments:

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

Inclusion	Complex	Community Name	Code	% of Community
Inclusion	Complex			
Inclusion	Complex			
Inclusion	Complex			

Plant List	Layer / Abundance			
	1	2	3	4
Trees				
Red pine				
White pine				
American elm				

Plant List	Layer / Abundance			
	1	2	3	4
Groundlayer				
Narrow butterfly sp.				
Penstemon digitalis				
Solidago sp.				
Common Strawberry				
Common playfount				
Common Milkweed				
Large leaf aster				
Common clover (anemoid)				
Brown Knapweed				
Senecio larvensis				
Mullen				

Shrubs	Layer / Abundance			
	1	2	3	4
Crataegus sp.				
Red osier dog wood				
Cedar				
Honey suckle				
Red cedar				
Green Ash				
Staghorn sumac				

Northern.  
 adjacent agricultural field  
 Monarch caterpillars  
 " butterfly

Jay





**ELC Community Summary Sheet** Polygon # 3

*Hedge row along N. limit*

Project #: 43952 Project Name: Snells Hollow Surveyor(s): SD SD Date: July 11, 2019

Community Series: <u>HOR</u>		Ecosite:	Vegetation Type:
System: Terrestrial Wetland Aquatic	Topographic Feature: Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / <u>Tableland</u> Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	Dominant Plant Form: Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / <u>Deciduous</u> / Coniferous / Mixed	
Cover: Open Shrub <u>Tree</u>	History: Natural <u>Cultural</u>	Community Class: Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / <u>Forest</u> / Cultural / Swamp / Bog / Marsh / Open Water / Shallow Water/Meadow <span style="float: right;"><u>Hedge row</u></span>	

Stand Description		
Community Age: Pioneer / <u>Young</u> / <u>Mid-Aged</u> / Mature / Old Growth	Basal Area (m2/ha):	
Standing Snags: Rare / Occasional / Abundant / Dominant		
Deadfall Logs: Rare / Occasional / Abundant / Dominant		
Health <u>L</u> / M / H	Sensitivity <u>L</u> / M / H	Botanical Quality <u>L</u> / M / H
Slope: None / Gentle / Moderate / Steep <span style="float: right;"><u>Simple</u> / Complex</span>		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy	<u>2</u>	<u>2</u>	
2 Subcanopy	<u>3/4</u>		
3 Understorey	<u>5</u>		
4 Groundlayer	<u>6/7</u>		

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	<u>0</u>	<u>D</u>	<u>A</u>	<u>✓</u>
	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

Evidence of Disturbance: Tree cutting, exotic species, trails, dumping, noise, predation  <u>Adjacent to ag. field.</u>
Wildlife / Habitat Observations: Birds, mammals, <u>calls</u> , observed, dens, nests
Comments:

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

			Community Name	Code	% of Community
Inclusion		Complex			
Inclusion		Complex			
Inclusion		Complex			

ELC Community Summary Sheet	Polygon # 4
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classified as Fen.

Project #: 43952 Project Name: Snell's Hollow Surveyor(s): SR Date: July 11, 2019

Community Series: <b>SAS1-1 / MAS3-1</b>		Ecosite:	Vegetation Type:
System: Terrestrial <u>Wetland</u> Aquatic	Topographic Feature: Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	Dominant Plant Form: Plankton / <u>Submerged</u> / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed <u>emergent</u>	
Cover: Open Shrub Treed	History: Natural Cultural	Community Class: Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie -- Savannah & Woodland / Forest / Cultural / Swamp / Bog / Marsh / Open Water / Shallow Water/Meadow	

Stand Description		
Community Age: Pioneer / Young / Mid-Aged / Mature / Old Growth	1	Basal Area (m2/ha):
Standing Snags: Rare / Occasional / Abundant / Dominant	on shore	
Deadfall Logs: Rare / Occasional / Abundant / Dominant	on shore	
Health: L / M / H	Sensitivity: L / M / H	Botanical Quality: L / M / H
Slope: None / Gentle / Moderate / Steep	Simple / Complex	

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy	/	/	
2 Subcanopy	/	/	
3 Understorey	/	/	
4 Groundlayer	4-7	4	<u>Typha</u> , <u>SCHOTAB</u> , reed, canary grass

Height Codes -- (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
Cover Codes -- (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH
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Evidence of Disturbance: Tree cutting, exotic species, trails, dumping, <u>noise</u> , predation <u>located next to road</u>
Wildlife / Habitat Observations: Birds, mammals, calls, observed, dens, nests <u>6+ Midland painted turtles,</u> <u>Barn Swallows, green frogs.</u>
Comments:

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

	Community Name	Code	% of Community
Inclusion	Complex ✓ <u>OAO + MAS2-1</u>		
Inclusion	<u>located around edge of OAO</u>		
Inclusion			

Identified as Fen.



<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>
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Project #: \_\_\_\_\_ Project Name: Snells Hollow Surveyor(s): GL Date: Sept 10, 2019

<b>Polygon Description</b>	
<b>Community Series:</b> <u>SWT</u>	<b>Ecosite:</b>
<b>Vegetation Type:</b> <u>3-1</u>	
<b>System:</b> Terrestrial <u>Wetland</u> Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff
<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / <u>Deciduous</u> / Coniferous / Mixed	
<b>Cover:</b> Open <u>Shrub</u> Treeed	<b>History:</b> <u>Natural</u> Cultural
<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / <u>Swamp</u> / Bog / Marsh / Open Water / Shallow Water	

<b>Stand Description</b>		
<b>Community Age:</b> Pioneer / Young / <u>Mid-Aged</u> / Mature / Old Growth	<b>Basal Area (m2/ha):</b>	
<b>Standing Snags:</b> <u>Rare</u> / Occasional / Abundant / Dominant		
<b>Deadfall Logs:</b> <u>Rare</u> / Occasional / Abundant / Dominant		
<b>Health:</b> <u>L</u> / M / H	<b>Sensitivity:</b> <u>L</u> / M / H	<b>Botanical Quality:</b> <u>L</u> / M / H
<b>Slope:</b> None / Gentle / Moderate / Steep		
Simple / Complex		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

<b>Size Class Analysis (Rare / Occasional / Abundant / Dominant)</b>	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH
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<b>Evidence of Disturbance:</b> Tree cutting, <u>exotic species</u> , trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests  <u>Monarchs</u>
<b>Comments:</b>

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

Community Name			Code	% of Community
Inclusion	Complex			
Inclusion	Complex			
Inclusion	Complex			

ELC Community Summary Sheet

Polygon #

Plant List	Layer / Abundance			
	1	2	3	4
Trees				
Apple				
<del>Pink snow</del>				
Trembling aspen				
Manitoba maple				

Shrubs	Layer / Abundance			
	1	2	3	4
Red Osier Dogwood				
Chamaecyparis monophylla				
Trembling aspen				

Plant List	Layer / Abundance			
	1	2	3	4
Groundlayer				
Canada Goldenrod				
Tall Goldenrod				
Paricled aster				
Flat topped goldenrod				
Jewelweed				
Sensitive fern				
Joe Pye weed				
Purple loosestrife				
Aster sp.				
Heart aster				
Calico aster				
Heartleaf aster				
Swamp aster				
Late goldenrod				

✓  
 ▽  
 - smooth leaves

Monarcho 11  
 10x  
 11ex sp.

<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>
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Project #: \_\_\_\_\_ Project Name: Snells Hollow Surveyor(s): GR Date: Sept 10, 2019

<b>Community Series:</b> <u>SWD</u>		<b>Ecosite:</b>	<b>Vegetation Type:</b> <u>6-1</u>
<b>System:</b> Terrestrial <u>Wetland</u> Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / <u>Deciduous</u> / Coniferous / Mixed	
<b>Cover:</b> Open <u>Shrub</u> <u>Tree</u>	<b>History:</b> <u>Natural</u> Cultural	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / <u>Swamp</u> / Bog / Marsh / Open Water / Shallow Water	

<b>Stand Description</b>		
<b>Community Age:</b> Pioneer / Young / <u>Mid-Aged</u> / Mature / Old Growth	<b>Basal Area (m2/ha):</b>	
<b>Standing Snags:</b> Rare / <u>Occasional</u> / Abundant / Dominant		
<b>Deadfall Logs:</b> Rare / <u>Occasional</u> / Abundant / Dominant		
<b>Health</b> L / <u>M</u> / H	<b>Sensitivity</b> L / <u>M</u> / H	<b>Botanical Quality</b> L / <u>M</u> / H
<b>Slope:</b> None / Gentle / Moderate / Steep		
Simple / Complex		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

<b>Evidence of Disturbance:</b> Tree cutting, exotic species, trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests
<b>Comments:</b>

Depth Sampled		
Depth to Mottles		
Depth to Gley		
Depth to Bedrock		
Carbonates		
Depth to Gr. Water		
Depth of Organics		
Effective Texture		
Position on Slope		
Moisture Regime		

	Community Name	Code	% of Community
Inclusion	Complex		
Inclusion	Complex		
Inclusion	Complex		

Plant List	Layer / Abundance			
	1	2	3	4
Trees				
Yellow Birch				
Maple sp.				

Plant List	Layer / Abundance			
	1	2	3	4
Groundlayer				
Ostrich Fern				
Kentucky Buttercup				
Mullein weed				
Sensitive Fern				
Canada Goldenrod				
Bull thistle				
Virginia creeper				
Nightshade (enchanted)				
Northern bugweed				
Swamp aster				
White aster				
Bracken fern sp.				

Purple stems

Started some wheat

\*

Shrubs	Layer / Abundance			
	1	2	3	4
Glossy blackthorn				
Winter holly				

Rabbit  
Deer track -



<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>
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Project #: \_\_\_\_\_ Project Name: Snellis Hollow Surveyor(s): AO Date: Sept 10, 2014

<b>Polygon Description</b>	
Community Series:	Ecosite:
Vegetation Type: <u>MAS3-1</u>	
<b>System:</b> Terrestrial Wetland Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff
<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / Deciduous Coniferous / Mixed <u>wetland emergent</u>	
<b>Cover:</b> Open Shrub Tree	<b>History:</b> Natural Cultural
<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / Swamp / Bog / Marsh / Open Water / Shallow Water	

<b>Stand Description</b>		
<b>Community Age:</b> Pioneer / Young / Mid-Aged / Mature / Old Growth	<b>Basal Area (m2/ha):</b>	
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		
<b>Health</b> L / M / H	<b>Sensitivity</b> L / M / H	<b>Botanical Quality</b> L / M / H
<b>Slope:</b> None / Gentle / Moderate / Steep		
Simple / Complex		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

<b>Size Class Analysis (Rare / Occasional / Abundant / Dominant)</b>				
	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

<b>Evidence of Disturbance:</b> Tree cutting, <u>exotic species</u> , trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> <u>Birds</u> , <u>mammals</u> , <u>calls</u> , <u>observed</u> dens, nests <u>Large deer (Buck)</u>
<b>Comments:</b>

<b>Depth Sampled</b>		<u>Organics</u>
<b>Depth to Mottles</b>		
<b>Depth to Gley</b>		
<b>Depth to Bedrock</b>		
<b>Carbonates</b>		
<b>Depth to Gr. Water</b>		
<b>Depth of Organics</b>		
<b>Effective Texture</b>		
<b>Position on Slope</b>		
<b>Moisture Regime</b>		

			Community Name	Code	% of Community
Inclusion		Complex			
Inclusion		Complex			
Inclusion		Complex			

**ELC Community Summary Sheet**

**Polygon #**

Plant List	Layer / Abundance			
	1	2	3	4
<b>Trees</b>				

Shrubs	1	2	3	4

Plant List	Layer / Abundance			
	1	2	3	4
<b>Groundlayer</b>				
Purple loosestrife				
Parisetum swam				
Bidens frondosa				
<del>Phytolacca</del>				
Scalduweed				

tall  
overs'is

<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>
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Project #: \_\_\_\_\_ Project Name: Snell's Hollow Surveyor(s): gr Date: Sept 10, 2019

<b>Polygon Description</b>		
<b>Community Series:</b> <u>CUM</u>	<b>Ecosite:</b>	<b>Vegetation Type:</b> <u>1-1</u>
<b>System:</b> Terrestrial Wetland Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / <u>Tableland</u> Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / <u>Graminoid</u> / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed
<b>Cover:</b> Open Shrub Tree	<b>History:</b> Natural <u>Cultural</u>	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / <u>Cultural</u> / Swamp / Bog / Marsh / Open Water / Shallow Water

<b>Stand Description</b>		
<b>Community Age:</b> Pioneer / Young / Mid-Aged / Mature / Old Growth	<b>Basal Area (m2/ha):</b>	
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		
<b>Health:</b> L / M / H	<b>Sensitivity:</b> L / M / H	<b>Botanical Quality:</b> L / M / H
<b>Slope:</b> None / <u>Gentle</u> / Moderate / Steep		
Simple / Complex		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1	Canopy		
2	Subcanopy		
3	Understorey		
4	Groundlayer		

**Height Codes** - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
**Cover Codes** - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

<b>Size Class Analysis</b> (Rare / Occasional / Abundant / Dominant)				
	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

<b>Evidence of Disturbance:</b> Tree cutting, <u>exotic species</u> , trails, dumping, <u>noise</u> , predation  <u>Invasive species</u> <u>Adjacent to road.</u>
<b>Wildlife / Habitat Observations:</b> <u>Birds</u> , mammals, calls, <u>observed</u> , dens, nests <u>Rabbit</u> <u>Monarchs</u> <u>Brood</u>
<b>Comments:</b>

Depth Sampled		
Depth to Mottles		
Depth to Gley		
Depth to Bedrock		
Carbonates		
Depth to Gr. Water		
Depth of Organics		
Effective Texture		
Position on Slope		
Moisture Regime		

			Community Name	Code		% of Community
Inclusion		Complex				
Inclusion		Complex				
Inclusion		Complex				



<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>
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Project #: \_\_\_\_\_ Project Name: Snell's Hollow Surveyor(s): SR Date: Sept 10, 2019

**Polygon Description**

<b>Community Series:</b> <u>FOC</u>		<b>Ecosite:</b>	<b>Vegetation Type:</b>
<b>System:</b> <u>Terrestrial</u> Wetland Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / <u>Valley Slope</u> / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / <u>Alvar</u> / Rockland / Beach / Bar / Sand Dune / Bluff		<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / Deciduous / <u>Coniferous</u> / Mixed
<b>Cover:</b> Open Shrub Treed	<b>History:</b> Natural <u>Cultural</u>	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / <u>Alvar</u> / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie – Savannah & Woodland / <u>Forest</u> / <u>Cultural</u> / Swamp / Bog / Marsh / Open Water / Shallow Water	

**Stand Description**

<b>Community Age:</b> Pioneer / Young / <u>Mid-Aged</u> / Mature / Old Growth		<b>Basal Area (m2/ha):</b>	
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant			
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant			
<b>Health:</b> <u>L</u> / M / H	<b>Sensitivity:</b> <u>L</u> / M / H	<b>Botanical Quality:</b> <u>L</u> / M / H	
<b>Slope:</b> None / Gentle / <u>Moderate</u> / Steep		Simple / Complex	

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes – (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes – (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 – 24cm DBH	25 – 50cm DBH	> 50cm DBH

**Evidence of Disturbance:**  
Tree cutting, exotic species, trails, dumping, noise, predation

**Wildlife / Habitat Observations:**  
Birds, mammals, calls, observed, dens, nests

**Comments:**

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

			Community Name	Code	% of Community
Inclusion	<input checked="" type="checkbox"/>	Complex	<u>Mixed Forest</u>	<u>FOH</u>	<u>10%</u>
Inclusion	<input type="checkbox"/>	Complex			
Inclusion	<input type="checkbox"/>	Complex			



<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>
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Project #: 043952 Project Name: Snell's Hollow Surveyor(s): SK Date: 06/18

<b>Community Series:</b> <u>HAS -</u>		<b>Ecosite:</b> <u>2</u>	<b>Vegetation Type:</b> <u>1</u>
<b>System:</b> <u>Wetland</u> Terrestrial Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / Tableland Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / Graminoid / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed <u>emergent - cattail</u>	
<b>Cover:</b> <u>Open</u> Shrub Treed	<b>History:</b> Natural <u>Cultural</u>	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / Swamp / Bog / Marsh / Open Water / <u>Shallow Water</u>	

<b>Stand Description</b>		
<b>Community Age:</b> Pioneer / Young / Mid-Aged / Mature / Old Growth	<b>Basal Area (m2/ha):</b>	
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant		
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant		
<b>Health</b> L / M / H	<b>Sensitivity</b> L / M / H	<b>Botanical Quality</b> L / M / H
<b>Slope:</b> None / Gentle / Moderate / Steep		
Simple / Complex		

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			<u>Cattail</u>

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

<b>Evidence of Disturbance:</b> Tree cutting, exotic species, trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests <u>Nesting Redwing Blackbirds x 3 pairs</u>
<b>Comments:</b> <u>Agricultural runoff - depression no discharge point or connection to wetland noted.</u>

Depth Sampled		
Depth to Mottles		
Depth to Gley		
Depth to Bedrock		
Carbonates		
Depth to Gr. Water		
Depth of Organics		
Effective Texture		
Position on Slope		
Moisture Regime		

abundant soil.

			Community Name	Code	% of Community
Inclusion		Complex			
Inclusion		Complex			
Inclusion		Complex			





<b>ELC Community Summary Sheet</b>	<b>Polygon #</b>
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Project #: 043952 Project Name: Snell's Hollow Surveyor(s): SR Date: 6/6/18

<b>Community Series:</b>		<b>Ecosite:</b>	<b>Vegetation Type:</b>
<b>System:</b> Terrestrial Wetland Aquatic	<b>Topographic Feature:</b> Lacustrine / Riverine / Bottomland / Terrace / Valley Slope / <u>Tableland</u> Rolling Upland / Cliff / Talus / Crevice / Cave / Alvar / Rockland / Beach / Bar / Sand Dune / Bluff	<b>Dominant Plant Form:</b> Plankton / Submerged / Floating-leaved / <u>Graminoid</u> / Forb / Lichen / Bryophyte / Deciduous / Coniferous / Mixed	
<b>Cover:</b> Open Shrub Tree	<b>History:</b> <u>Natural</u> Cultural	<b>Community Class:</b> Beach-Bar / Sand Dune / Bluff / Cliff / Talus / Alvar / Rock Barren / Crevice-Cave / Sand Barren / Tallgrass Prairie - Savannah & Woodland / Forest / Cultural / Swamp / Bog / Marsh / Open Water / Shallow Water <i>field / meadow</i>	

<b>Stand Description</b>	
<b>Community Age:</b> Pioneer / <u>Young</u> / Mid-Aged / Mature / Old Growth	<b>Basal Area (m2/ha):</b>
<b>Standing Snags:</b> Rare / Occasional / Abundant / Dominant <i>NA</i>	
<b>Deadfall Logs:</b> Rare / Occasional / Abundant / Dominant <i>NA</i>	
<b>Health</b> L / <u>M</u> / H	<b>Sensitivity</b> <u>L</u> / M / H
<b>Botanical Quality</b> <u>L</u> / M / H	
<b>Slope:</b> None / <u>Gentle</u> / Moderate / Steep <i>Simple</i> / Complex	

Vegetation Layer	Height	Cover	Dominant Sp. Per Vegetation Layer
1 Canopy			
2 Subcanopy			
3 Understorey			
4 Groundlayer			

Height Codes - (1) >20m, (2) 10-20m, (3) 2-10m, (4) 1-2m, (5) 0.5-1m, (6) 0.2-0.5m, (7) <0.2m  
 Cover Codes - (0) None, (1) 1-10%, (2) 10-25%, (3) 25-60%, (4) >60%

Size Class Analysis (Rare / Occasional / Abundant / Dominant)	< 10cm DBH	10 - 24cm DBH	25 - 50cm DBH	> 50cm DBH

<b>Evidence of Disturbance:</b> Tree cutting, exotic species, trails, dumping, noise, predation
<b>Wildlife / Habitat Observations:</b> Birds, mammals, calls, observed, dens, nests
<b>Comments:</b>

Depth Sampled	
Depth to Mottles	
Depth to Gley	
Depth to Bedrock	
Carbonates	
Depth to Gr. Water	
Depth of Organics	
Effective Texture	
Position on Slope	
Moisture Regime	

		Community Name	Code	% of Community
Inclusion	Complex			
Inclusion	Complex			
Inclusion	Complex			

ELC Community Summary Sheet

Polygon #

N NATIVE  
O NON-NATIVE  
I AGGRESSIVE  
Invasive

Table with columns: Plant List, Layer / Abundance (1, 2, 3, 4). Row 1: Trees. The rest of the table is empty.

Table with columns: Shrubs, Layer / Abundance (1, 2, 3, 4). The table is empty.

Table with columns: Plant List, Layer / Abundance (1, 2, 3, 4). Groundlayer section includes entries like: DROSER (D, D), Bull thistle (A, A), Purple nettle (O, A), Solidago sp. (A, A), Black medic (O), Milkweed Common (O), Aster sp. (A, A), Reed Canary Grass (O, O), Thistle arven. (A, A), Orchard grass (O, O), Burdock major (O, O), Sheeps ear (R), Cat grass (R), Philadelphia fleabane (O, O), Common lettuce (O), ~~Lactuca~~ dandelion (O), ~~Morty dock~~, Bids foot-the oil (R), Small flower (R), ~~wild carrot~~, ~~Securigera varia~~ (R), Wild Teasel (R, R).

# Snell's Hollow East - Structures west end

300043952.0000

Structure survey completed on  
April 24, 2020

**Legend**  
📌 Structures



Google Earth

© 2020 Google


Snell's Hollow Secondary

100 m

# Snell's Hollow East - Structure S7 east end

300043952.0000

## Legend

 Structures

S7

S7 - fallen down sign

Heart Lake PSW Complex (WL#1)



-14\_200406



MPTU-13\_200406

Google Earth

3\_200406

© 2020 Google

AMPH4



70 m

## 300043952, S1

Project	300043952 (Snell's Hollow East)
Created	2020-04-22 19:24:49 UTC by Nadine Price
Updated	2020-04-28 18:55:57 UTC by Nadine Price
Location	43.746025, -79.816036
Visit Status	<span style="color: green;">■</span> Visit 1

### Structure

Project Number	300043952
Structure ID	S1
StructureType	House
Is Chimney Present?	Yes
If Chimney Present: Capped or Lined?	No
Comments	Saw RTH on first visit

### Visit 1, 2020-04-24

calcVisitLabel	Visit 1
Most fields in this section will auto fill based on the last entry made.	
Visit Count	1
Project Number	300043770
Observers	Nadine Price
Date	2020-04-24
Start Time	10:47
End Time	10:55
Temperature °C	6
Sky Code	(2) Cloudy or Overcast
Wind Scale	(3) Gentle breeze, leaves & twigs in constant motion: 12-19km/hr
Potential or Confirmed SAR Using Structure?	No
Comments	Check during active season if any birds nest in covered patio.

### Photos







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Is External Inspection Conducted?

No

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Is Internal Inspection Conducted?

No

---

## 300043952, S2

Project	300043952 (Snell's Hollow East)
Created	2020-04-22 18:33:26 UTC by Nadine Price
Updated	2020-04-28 18:25:54 UTC by Nadine Price
Location	43.745965, -79.815991
Visit Status	<span style="color: green;">■</span> Visit 1

### Structure

Project Number	300043952
Structure ID	S2
StructureType	Chimney
Is Chimney Present?	Yes
If Chimney Present: Capped or Lined?	No
Type of Chimney	Brick
Comments	Can see metal screen grating on top, may be covering entire top of chimney but not certain.

### Visit 1, 2020-04-24

calcVisitLabel	Visit 1
Most fields in this section will auto fill based on the last entry made.	
Visit Count	1
Project Number	300043952
Observers	Nadine Price
Date	2020-04-24
Start Time	10:59
End Time	11:02
Temperature °C	6
Sky Code	(2) Cloudy or Overcast
Wind Scale	(3) Gentle breeze, leaves & twigs in constant motion: 12-19km/hr
Potential or Confirmed SAR Using Structure?	Unknown
Comments	Can see metal screen grating on top, may be covering entire top of chimney but not certain.



Photos



Is External Inspection Conducted?	Yes
Is Internal Inspection Conducted?	No

### Chimney Swift Habitat Checklist

#### External Inspection

Is the chimney located on an old educational, institutional, industrial or commercial establishment or similar building?	No
Is the chimney at least 2.5 standard bricks wide on each side?	No
Does the chimney feature any of the following? - Visible spark protector - Animal guard - Aluminum flue protruding from it?	Yes
Is the chimney round or square in profile?	No

Is there a terra cotta tile protruding from top of chimney that is not lined with metal? No

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External Inspection Comment Rectangular shaped chimney, only 2 bricks wide on one side and 4 bricks wide on longer side. Looks like May be covered on top with metal...

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## 300043952, S3

Project	300043952 (Snell's Hollow East)
Created	2020-04-22 19:27:02 UTC by Nadine Price
Updated	2020-04-28 18:05:02 UTC by Nadine Price
Location	43.746096, -79.815704
Visit Status	<span style="color: green;">■</span> Visit 1

### Structure

Project Number	300043952
Structure ID	S3
StructureType	Garage
Is Chimney Present?	No

### Visit 1, 2020-04-24

calcVisitLabel	Visit 1
Most fields in this section will auto fill based on the last entry made.	
Visit Count	1
Project Number	300043770
Observers	Nadine Price
Date	2020-04-24
Start Time	11:11
End Time	11:14
Temperature °C	6
Sky Code	(2) Cloudy or Overcast
Wind Scale	(3) Gentle breeze, leaves & twigs in constant motion: 12-19km/hr
Potential or Confirmed SAR Using Structure?	No
Comments	No holes big enough for BARS to get in and no nests on outside of structure. Also it is mainly metal.

### Photos



Is External Inspection Conducted?	No
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Is Internal Inspection Conducted?

No

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## 300043952, S4

Project	300043952 (Snell's Hollow East)
Created	2020-04-22 18:35:54 UTC by Nadine Price
Updated	2020-04-24 15:22:25 UTC by Nadine Price
Location	43.746441, -79.816662
Visit Status	<span style="color: green;">■</span> Visit 1

### Structure

Project Number	300043952
Structure ID	S4
StructureType	Barn
Is Chimney Present?	No

### Visit 1, 2020-04-24

calcVisitLabel	Visit 1
Most fields in this section will auto fill based on the last entry made.	
Visit Count	1
Project Number	300043952
Observers	Nadine Price
Date	2020-04-24
Start Time	11:18
End Time	11:22
Temperature °C	6
Sky Code	(2) Cloudy or Overcast
Wind Scale	(3) Gentle breeze, leaves & twigs in constant motion: 12-19km/hr
Potential or Confirmed SAR Using Structure?	No
Comments	No holes for birds to get inside and all metal.

Photos



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Is External Inspection Conducted?

No

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Is Internal Inspection Conducted?

No

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## 300043952, S5

Project	300043952 (Snell's Hollow East)
Created	2020-04-22 18:37:09 UTC by Nadine Price
Updated	2020-04-24 15:27:08 UTC by Nadine Price
Location	43.746724, -79.816347
Visit Status	<span style="color: green;">■</span> Visit 1

### Structure

Project Number	300043952
Structure ID	S5
StructureType	Barn
Is Chimney Present?	No

### Visit 1, 2020-04-24

calcVisitLabel	Visit 1
Most fields in this section will auto fill based on the last entry made.	
Visit Count	1
Project Number	300043952
Observers	Nadine Price
Date	2020-04-24
Start Time	11:22
End Time	11:26
Temperature °C	6
Sky Code	(2) Cloudy or Overcast
Wind Scale	(3) Gentle breeze, leaves & twigs in constant motion: 12-19km/hr
Potential or Confirmed SAR Using Structure?	No
Comments	All covered and made of metal. No bird nests.

Photos





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Is External Inspection Conducted?

No

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Is Internal Inspection Conducted?

No

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## 300043952, S6

Project	300043952 (Snell's Hollow East)
Created	2020-04-22 18:38:17 UTC by Nadine Price
Updated	2020-04-24 15:33:00 UTC by Nadine Price
Location	43.746949, -79.816901
Visit Status	<span style="color: green;">■</span> Visit 1

### Structure

Project Number	300043952
Structure ID	S6
StructureType	Foundation
Is Chimney Present?	No

### Visit 1, 2020-04-24

calcVisitLabel	Visit 1
Most fields in this section will auto fill based on the last entry made.	
Visit Count	1
Project Number	300043952
Observers	Nadine Price
Date	2020-04-24
Start Time	11:27
End Time	11:32
Temperature °C	6
Sky Code	(2) Cloudy or Overcast
Wind Scale	(3) Gentle breeze, leaves & twigs in constant motion: 12-19km/hr
Potential or Confirmed SAR Using Structure?	No
Comments	Very open, didn't see nests. But good foundation for potential snake hibernacula.

Photos



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Is External Inspection Conducted?	No
Is Internal Inspection Conducted?	No

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## 300043952, S7

Project	300043952 (Snell's Hollow East)
Created	2020-04-22 18:39:56 UTC by Nadine Price
Updated	2020-04-24 16:19:18 UTC by Nadine Price
Location	43.751516, -79.806719
Visit Status	<span style="color: green;">■</span> Visit 1

### Structure

Project Number	300043952
Structure ID	S7
StructureType	Sign
Is Chimney Present?	No

### Visit 1, 2020-04-24

calcVisitLabel	Visit 1
Most fields in this section will auto fill based on the last entry made.	
Visit Count	1
Project Number	300043952
Observers	Nadine Price
Date	2020-04-24
Start Time	12:18
End Time	12:19
Temperature °C	6
Sky Code	(2) Cloudy or Overcast
Wind Scale	(3) Gentle breeze, leaves & twigs in constant motion: 12-19km/hr
Potential or Confirmed SAR Using Structure?	No
Comments	Toppled over sign, no birds.

### Photos



Is External Inspection Conducted?	No
Is Internal Inspection Conducted?	No

## 300043952, S8

Project	300043952 (Snell's Hollow East)
Created	2020-04-24 15:02:53 UTC by Nadine Price
Updated	2020-04-28 18:28:21 UTC by Nadine Price
Location	43.746063, -79.816107
Visit Status	<span style="color: green;">■</span> Visit 1

### Structure

Project Number	300043952
Structure ID	S8
StructureType	Chimney
Is Chimney Present?	Yes
If Chimney Present: Capped or Lined?	No
Type of Chimney	Brick

### Visit 1, 2020-04-24

calcVisitLabel	Visit 1
Most fields in this section will auto fill based on the last entry made.	
Visit Count	1
Project Number	300043952
Observers	Nadine Price
Date	2020-04-24
Start Time	11:03
End Time	11:06
Temperature °C	6
Sky Code	(2) Cloudy or Overcast
Wind Scale	(3) Gentle breeze, leaves & twigs in constant motion: 12-19km/hr
Potential or Confirmed SAR Using Structure?	Unknown
Comments	Looks to be too small for CHSW.

Photos



Is External Inspection Conducted?	Yes
Is Internal Inspection Conducted?	No

### Chimney Swift Habitat Checklist

#### External Inspection

Is the chimney located on an old educational, institutional, industrial or commercial establishment or similar building?	No
Is the chimney at least 2.5 standard bricks wide on each side?	No
Does the chimney feature any of the following? - Visible spark protector - Animal guard - Aluminum flue protruding from it?	Yes
Is the chimney round or square in profile?	Yes

Is there a terra cotta tile protruding from top of chimney that is not lined with metal? No

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External Inspection Comment Only 2 bricks wide and see metal screening/grating as well on it.

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## 300043952, S9

Project	300043952 (Snell's Hollow East)
Created	2020-04-24 15:06:40 UTC by Nadine Price
Updated	2020-04-28 18:29:15 UTC by Nadine Price
Location	43.746104, -79.81604
Visit Status	<span style="color: green;">■</span> Visit 1

### Structure

Project Number	300043952
Structure ID	S9
StructureType	Chimney
Is Chimney Present?	Yes
If Chimney Present: Capped or Lined?	Yes
Type of Chimney	Brick

### Visit 1, 2020-04-24

calcVisitLabel	Visit 1
Most fields in this section will auto fill based on the last entry made.	
Visit Count	1
Project Number	300043952
Observers	Nadine Price
Date	2020-04-24
Start Time	11:07
End Time	11:11
Temperature °C	6
Sky Code	(2) Cloudy or Overcast
Wind Scale	(3) Gentle breeze, leaves & twigs in constant motion: 12-19km/hr
Potential or Confirmed SAR Using Structure?	Unknown
Comments	Chimney at back of house

### Photos









Is External Inspection Conducted?	Yes
Is Internal Inspection Conducted?	No

### Chimney Swift Habitat Checklist

#### External Inspection

Is the chimney located on an old educational, institutional, industrial or commercial establishment or similar building?	No
Is the chimney at least 2.5 standard bricks wide on each side?	No
Does the chimney feature any of the following? - Visible spark protector - Animal guard - Aluminum flue protruding from it?	Yes
Is the chimney round or square in profile?	No
Is there a terra cotta tile protruding from top of chimney that is not lined with metal?	No
External Inspection Comment	Similar to S2, is rectangular in shape and can see something on top likely covering opening.

PROJECT AND SITE DATA							
Project No.: 01952	Project Title: Snell's Hollow East				Date (yy/mm/dd):	2010/04/03	
Site Name: Turtle station 1				No. of Photos: 8	Site No.: 1	Sample No.: 1a	
Crew Members (initials): Nadine Price, Stewart Gibson							
GPS DATA							
Location UTM: 595451.299 E, 4844130.7 <sup>4N</sup>				UTM Zone: 17T	Map Attached: <input checked="" type="checkbox"/>		
WEATHER							
Start Time: 11:20am	Search Duration: 12min	Air Temp. Start (°C): 8.0	Water Temp. (°C):	Wind (km/hr) (Beaufort): 3	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 11:32		Air Temp. End (°C): 6.7	Precip (mm):	Cloud Cover (%): 100			
HABITAT							
Proportion of Suitable Habitat Surveyed: 90%							
Wetland Type: SWM pond in cattails dominant, willows, dogwood				Substrate: unknown			
Wetland Size (dimensions, area): 0.20 ha (area); 137 m (perimeter)				Average Water Depth: unknown			
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature	Easting	Northing	Accuracy (m)	Comments			
<del>None</del>							
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
Habitat scoping day but did spend some time looking for turtles.							

- habitat scoping day

Incidentals

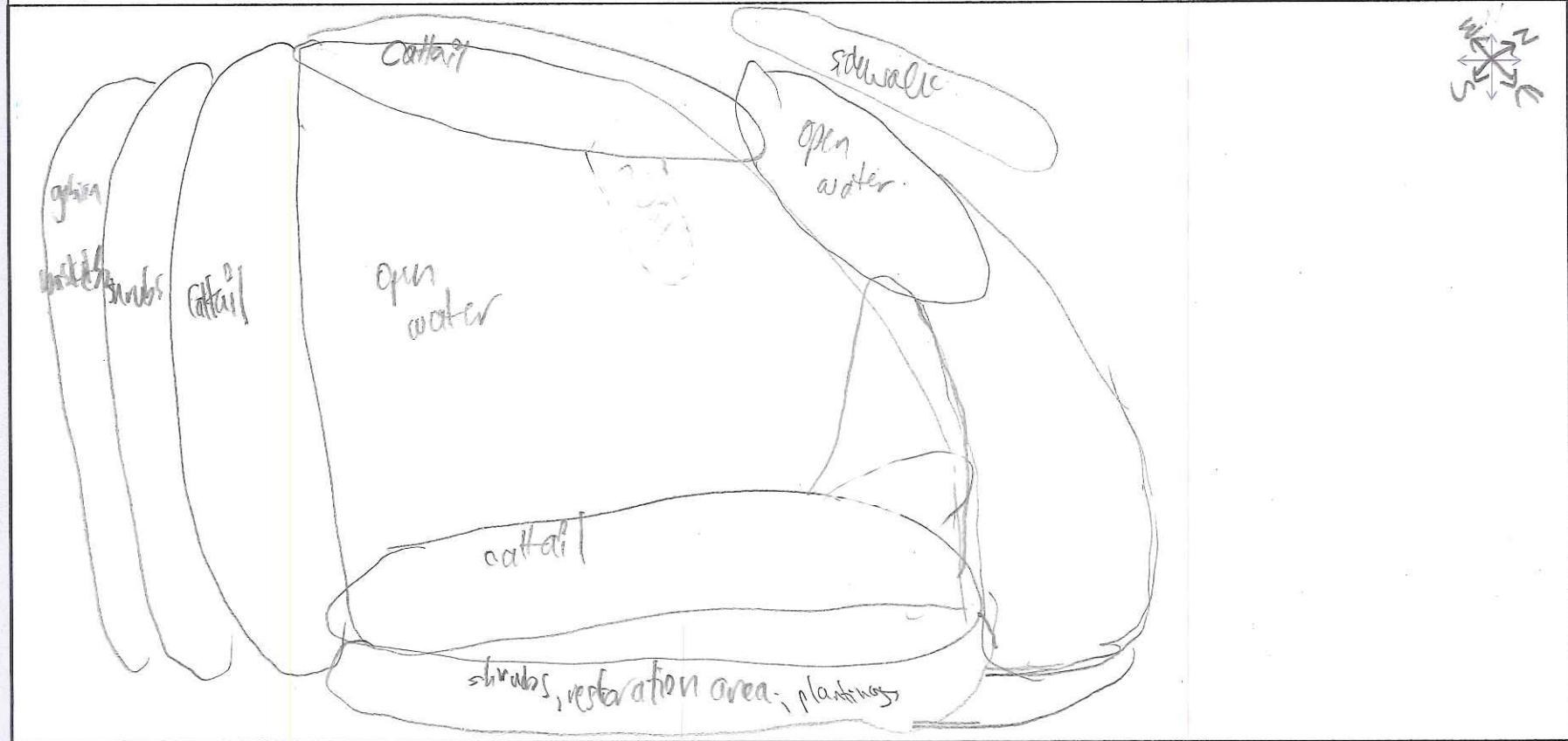
- ✓ Sosp 2 in shrubs near pond.
- ✓ RWBL
- ✓ AmRo
- ✓ Killdeer x2 - flew over.
- ✓ Mallard ♂

Turtle station 1

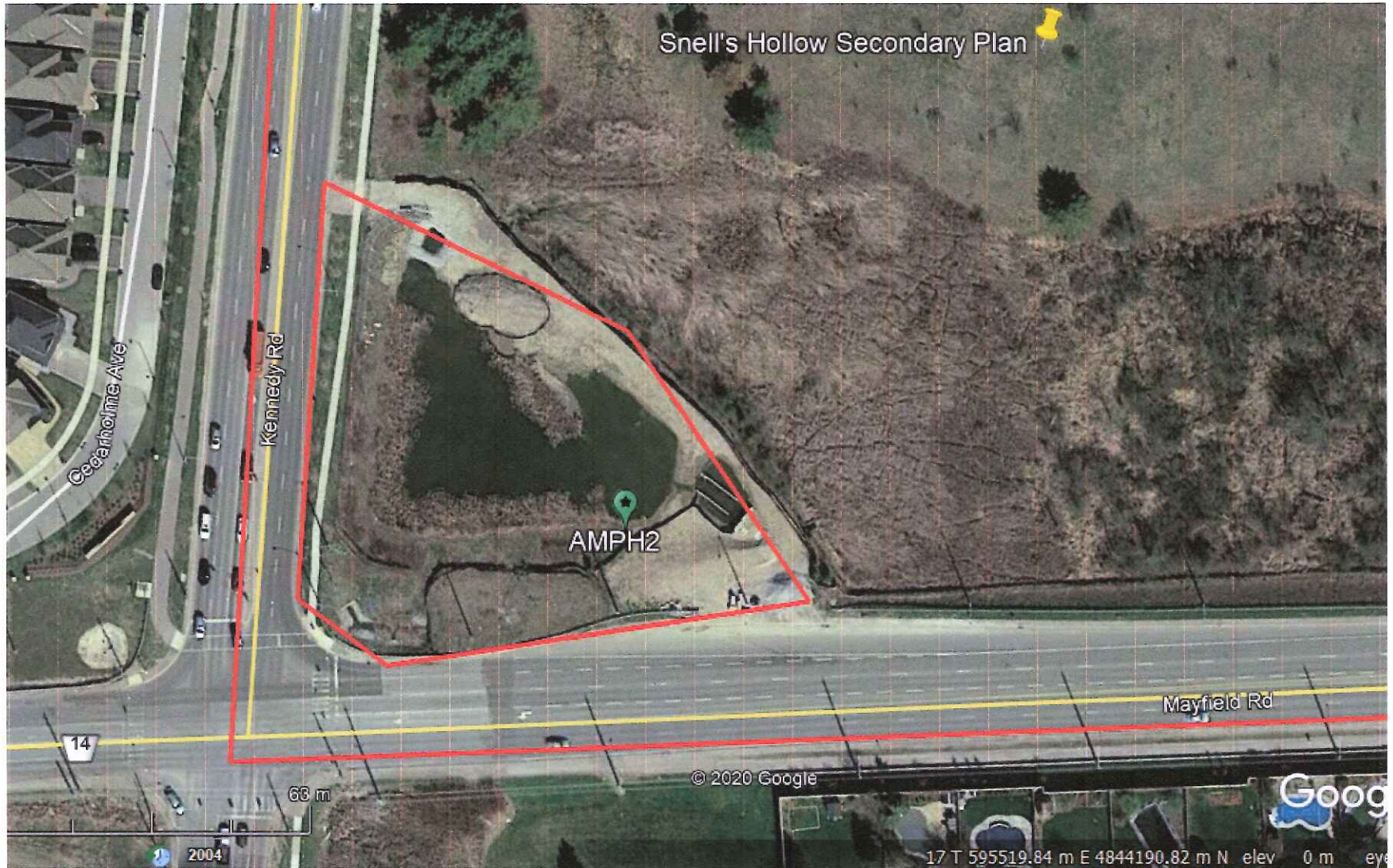
PROJECT AND SITE DATA

Project No.: 041551	Project Title: Snell's Hollow East	Date (YY/MM/DD): 20/04/05
Crew Members (initials): NP, SG		
Site Name: Turtle Station 1	Site Location: Caledon, NE corner of Kennedy Rd + Mayfield Rd	
Description of Location and Comments (con't): Small Pond, cattail dominant, restoration areas by road.		

Habitat Map Sketch:



Habitat scoping day  
Turtle survey 1<sup>st</sup> station 1 - Apr. 3/20



PROJECT AND SITE DATA							
Project No.: 04952		Project Title: Snells Hollow East				Date (yy/mm/dd): 20/04/03	
Site Name: Turtle station 2					No. of Photos: 4	Site No.: 2	Sample No.: 1a
Crew Members (initials): Nadine Price, Stewart Gibson							
GPS DATA							
Location UTM: 595697.74E, 4844590.59 <sup>N</sup>					UTM Zone: 17T	Map Attached: <input checked="" type="checkbox"/>	
WEATHER							
Start Time: 9:11 am	Search Duration: 1 min.	Air Temp. Start (°C): 5.4	Water Temp. (°C):	Wind (km/hr) (Beaufort): 3	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 11:01		Air Temp. End (°C): 2.0	Precip (mm):	Cloud Cover (%): 100			
HABITAT							
Proportion of Suitable Habitat Surveyed: 5-10%							
Wetland Type: Cattail marsh.					Substrate: —		
Wetland Size (dimensions, area): 1.21 ha (area); 543 m (perimeter)					Average Water Depth: —		
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input checked="" type="checkbox"/> Shrub/Thicket		<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites	
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat		<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other	
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
<del> </del>							
<del> </del>							
<del> </del>							
<del> </del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature	Easting	Northing	Accuracy (m)	Comments			
<del>None</del>							
<del> </del>							
<del> </del>							
<del> </del>							
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
Habitat snipping day, marginal habitat for turtles - densely vegetated w/ only some shallow water in some areas - will likely dry later in season. Still plan to briefly survey swamp at each survey visit. Only checked S side today.							

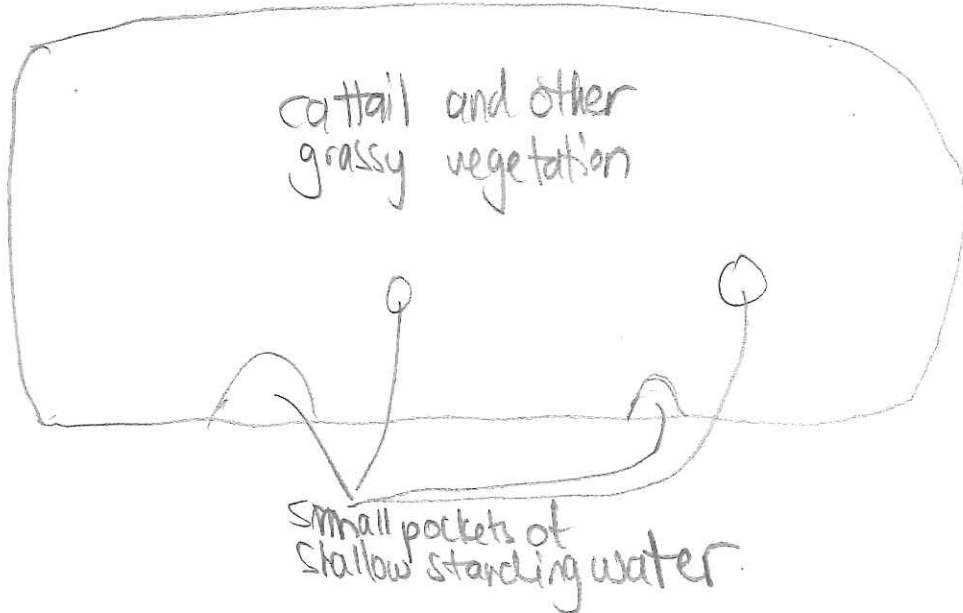
Habit snipping day

Incidentals  
couple - saw lots of scat  
Deer - Stewart observed browsing evidence.

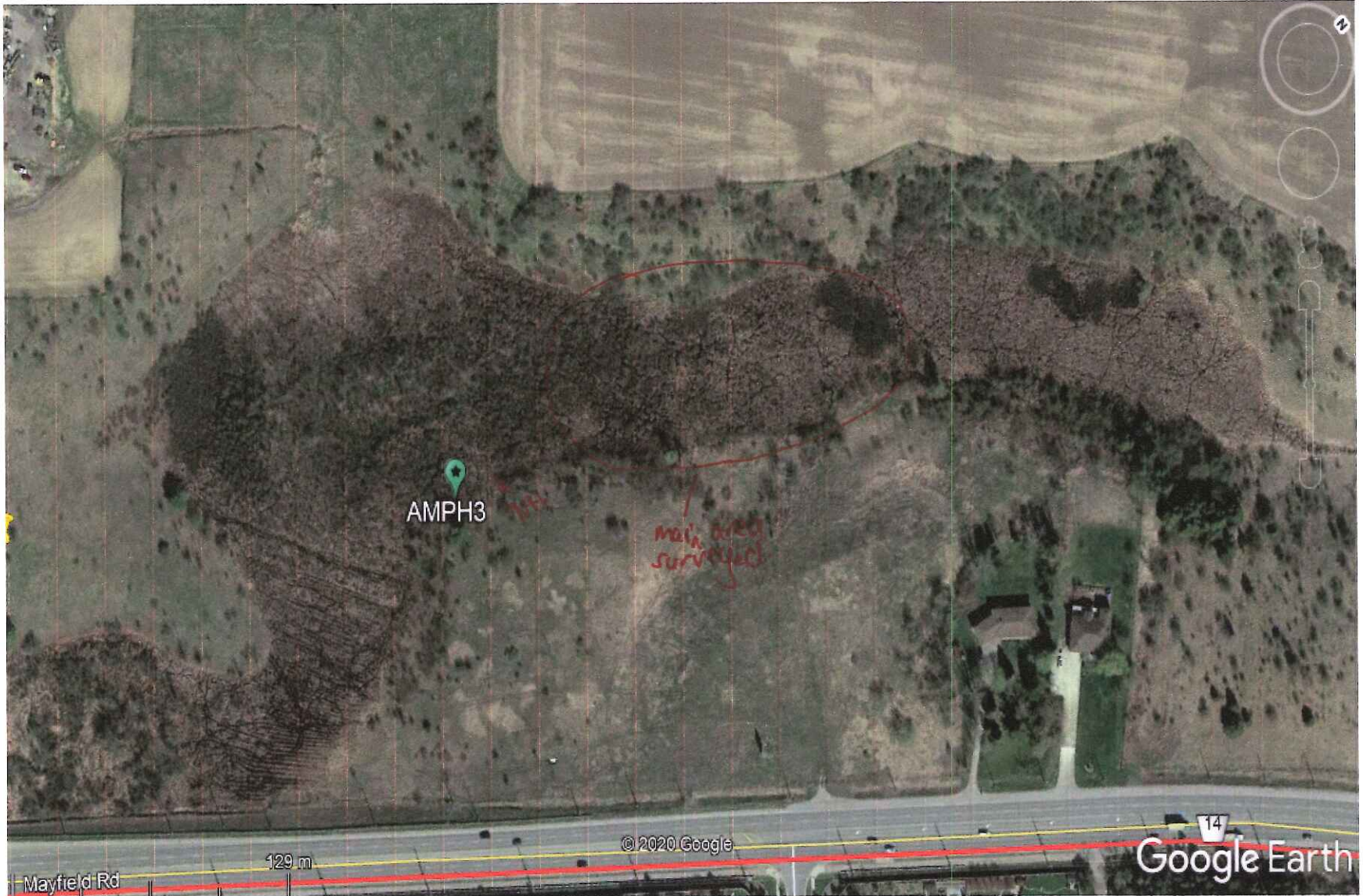
when were in forest

PROJECT AND SITE DATA

Project No.: 04952	Project Title: Snell's Hollow East	Date (YY/MM/DD): 2010/4/05
Crew Members (initials): NP, SG		
Site Name: Turtle Station	Site Location: Caledon, N side of Mayfield Rd.	
Description of Location and Comments (cont): Thicket swamp and cattail marsh.		
Habitat Map Sketch:		



Turtle survey 19, station 2 - Habitat scraping day.  
- Apr. 3/19.



PROJECT AND SITE DATA							
Project No.: 0498		Project Title: Snell's Hollow East				Date (yy/mm/dd): 20/07/03	
Site Name: Turtle Station 3				No. of Photos: 5	Site No.: 3	Sample No.: 1/a	
Crew Members (initials): Nadine Price, Stewart Gibson							
GPS DATA							
Location UTM: 59S998.87E, 4844833.76N				UTM Zone: 17T		Map Attached: <input checked="" type="checkbox"/>	
WEATHER							
Start Time: 10:30am	Search Duration: 15 min	Air Temp. Start (°C): 6	Water Temp. (°C):	Wind (km/hr) (Beaufort): 3	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 10:51	Air Temp. End (°C): 5.7c	Precip (mm):	Cloud Cover (%): 50-60				
HABITAT							
Proportion of Suitable Habitat Surveyed: 90%							
Wetland Type: Open water SPA1-1 and narrow channel				Substrate: unknown			
Wetland Size (dimensions, area): 0.81 ha (area); 565 m (perimeter)				Average Water Depth: unknown			
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature		Easting	Northing	Accuracy (m)	Comments		
Midland Painted Turtle		595943	4844862	5	Basking in veg at edge of pond. (N side)		
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
Habitat supering day but did spend some time looking for turtles.							
Incidentals							

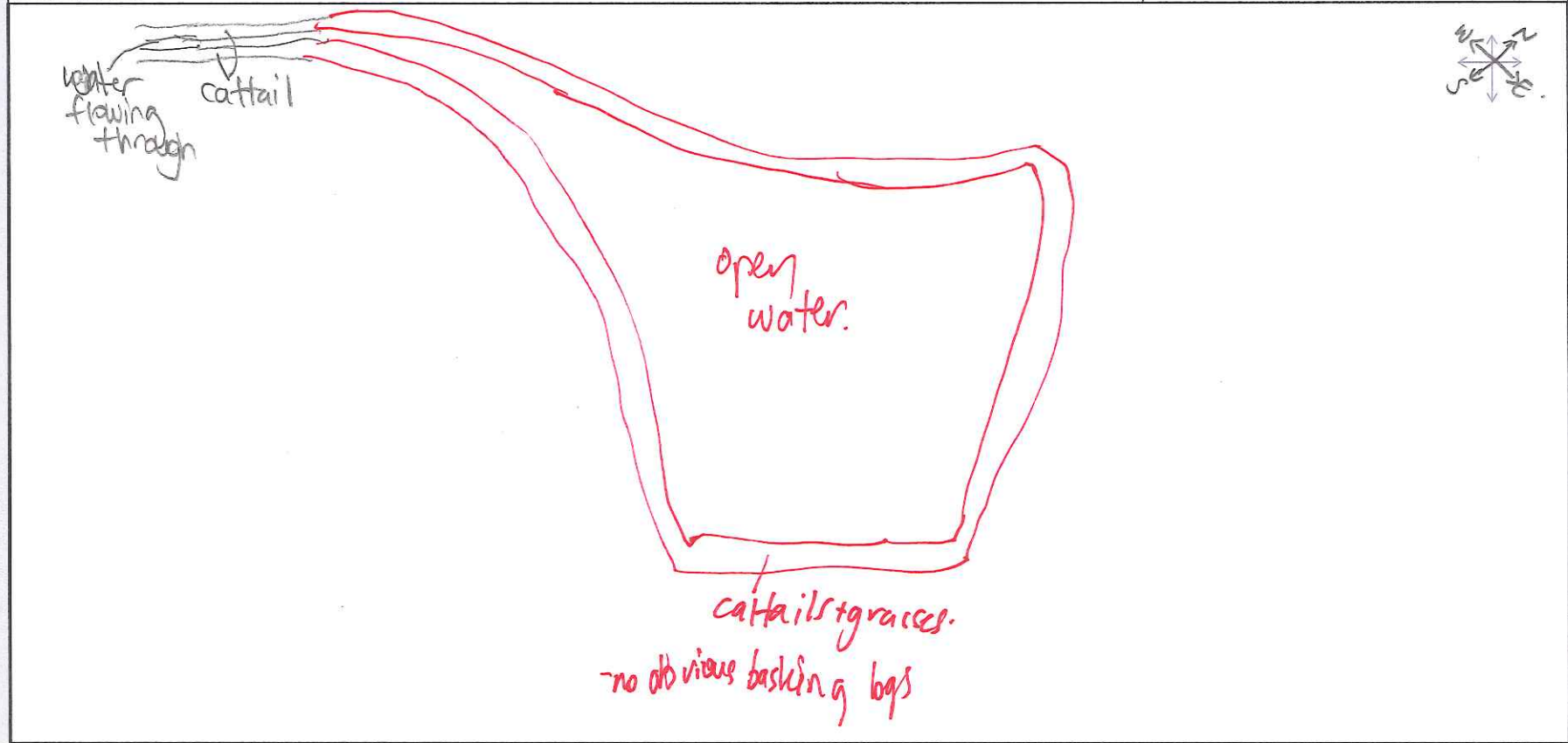
✓ GATE  
 AMPRO  
 Killandsx2  
 RJA  
 chickadee



PROJECT AND SITE DATA

Project No.: 0499	Project Title: Shell's Hollow East	Date (YY/MM/DD): 20/04/03
Crew Members (initials): NR, JG		
Site Name: Turtle Station	Site Location: Caledon, N side of Howfield Rd, W of Heart Lake Rd	
Description of Location and Comments (cont): <del>Marsh</del> open water, <del>reed</del> cattail dominant, likely neck canopy, no canopy. - station also includes cattail dominant narrow channel that connects to open water pond.		

Habitat Map Sketch:



Turtle survey 1<sup>st</sup> Station 3 - Habitat scoping day.

-Apr. 3/19.

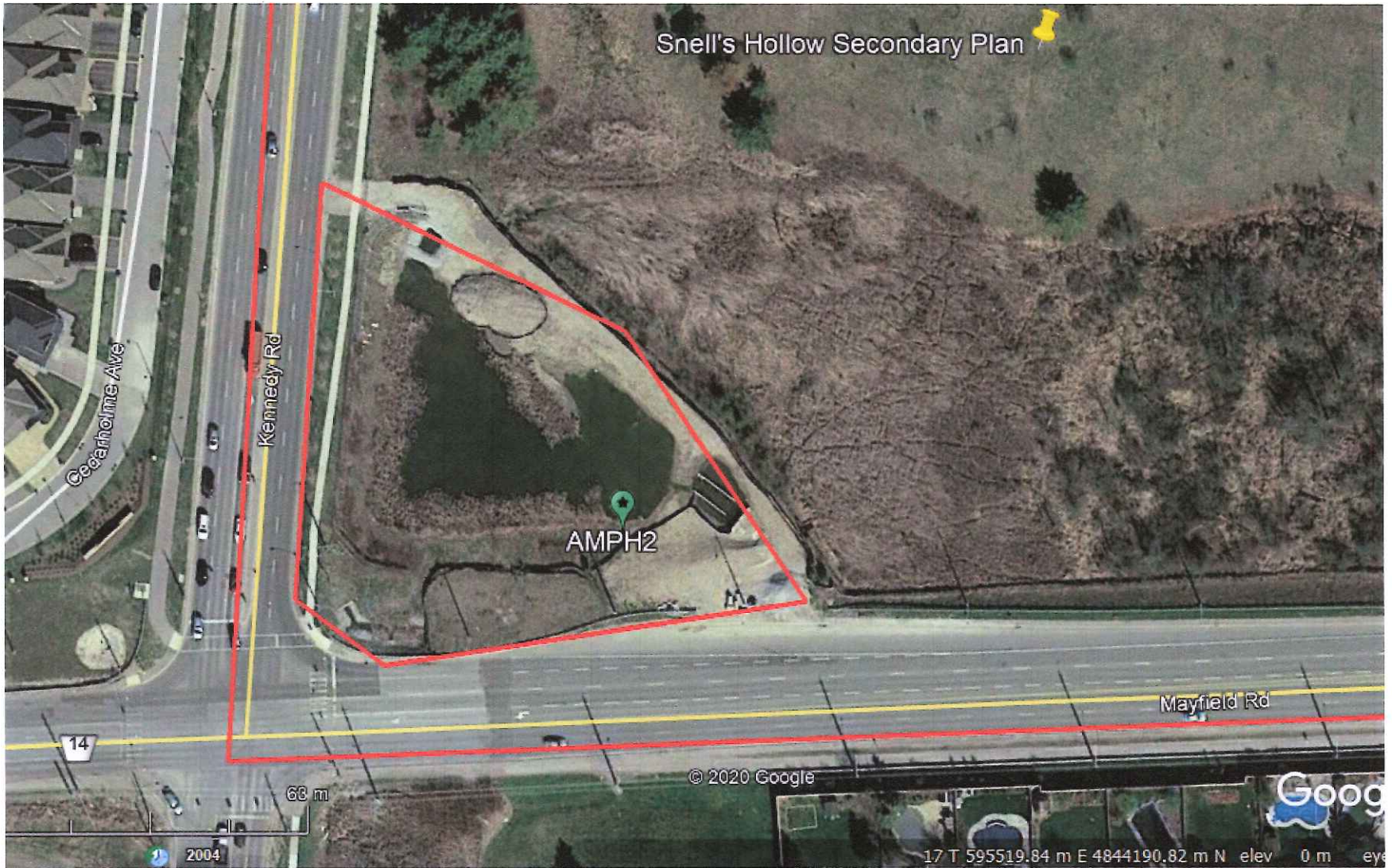


*Swamp pond*

PROJECT AND SITE DATA							
Project No.: 041997		Project Title: Snells Hollow East			Date (yy/mm/dd): 20/04/05		
Site Name: Turtle station 1				No. of Photos: 0	Site No.: 1	Sample No.: 1	
Crew Members (initials): NP, SG							
GPS DATA							
Location UTM: 595451.000E, 4844130.164N				UTM Zone: 17T	Map Attached: <input checked="" type="checkbox"/>		
WEATHER							
Start Time: 12:10 pm	Search Duration: 10 min.	Air Temp. Start (°C): 14.8	Water Temp. (°C):	Wind (km/hr) (Beaufort): 1	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 12:20 pm		Air Temp. End (°C): 14.8	Precip (mm):	Cloud Cover (%): 10			
HABITAT							
Proportion of Suitable Habitat Surveyed: 90%							
Wetland Type: Swamp pond - cattail dominant.				Substrate: unknown			
Wetland Size (dimensions, area): 0.20 ha (Carex); 137m (perimeter)				Average Water Depth: unknown			
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
<del> </del>							
<del> </del>							
<del> </del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature	Easting	Northing	Accuracy (m)	Comments			
<del>None</del>							
<del> </del>							
<del> </del>							
<del> </del>							
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
First turtle survey.							

*✓ RWBL  
Mado x Ce in bush by pond*

Turtle survey 1, station 1 - Apr. 6/20

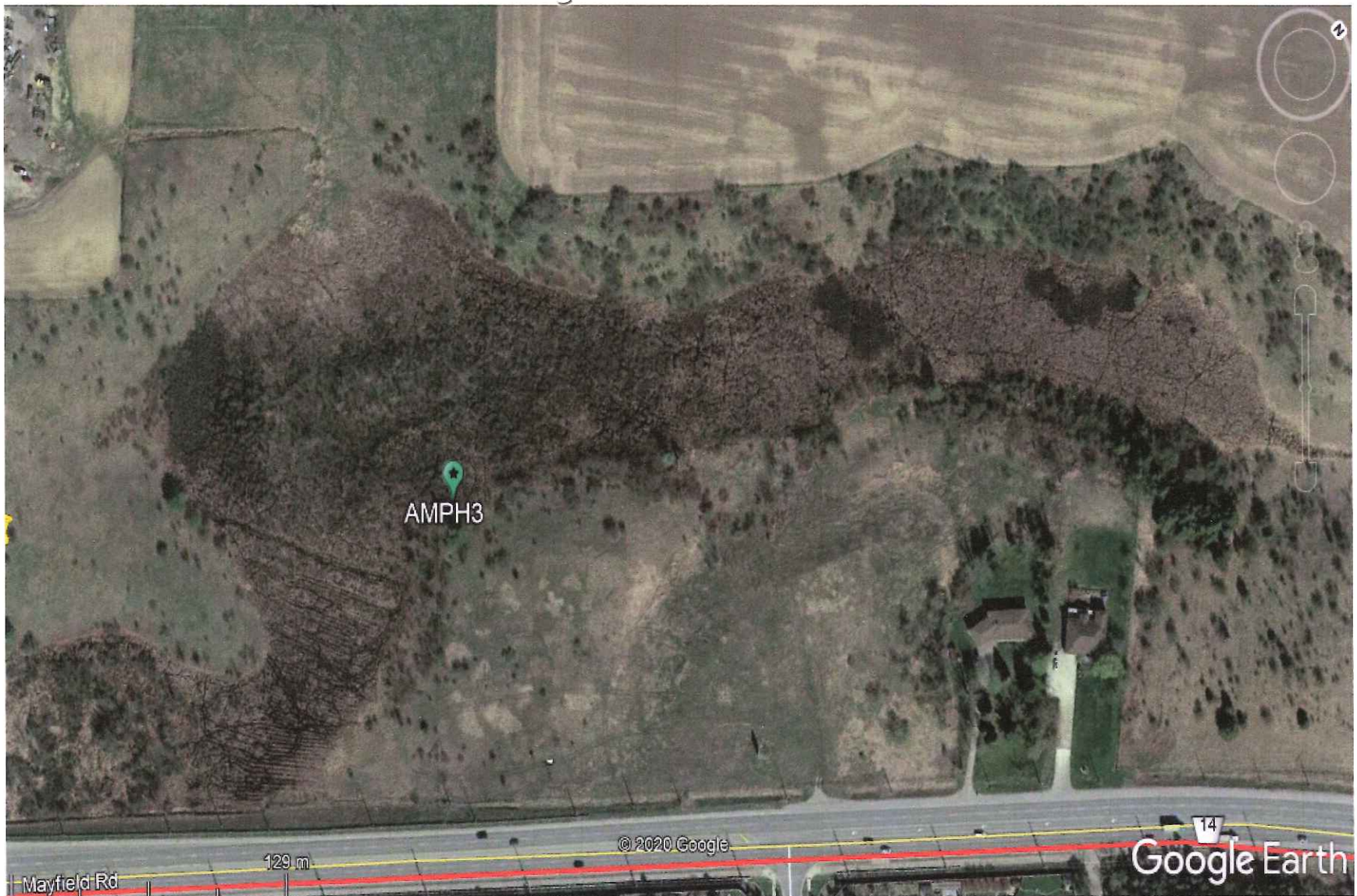


PROJECT AND SITE DATA							
Project No.: 043982		Project Title: Snell's Hollow East				Date (yy/mm/dd): 20/04/06	
Site Name: Turtle station 2				No. of Photos: 6	Site No.: 2	Sample No.: 1	
Crew Members (initials): NP, SG							
GPS DATA							
Location UTM: 59S687.74E, 4844590.96 N				UTM Zone: 17T	Map Attached: <input checked="" type="checkbox"/>		
WEATHER							
Start Time: 12:28	Search Duration: 23 min	Air Temp. Start (°C): 14.1	Water Temp. (°C): —	Wind (km/hr) (Beaufort): 1	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 1:01		Air Temp. End (°C): 15.5	Precip (mm): —	Cloud Cover (%): 10			
HABITAT							
Proportion of Suitable Habitat Surveyed: 5-10%							
Wetland Type: Cattail marsh				Substrate: unknown			
Wetland Size (dimensions, area): 1.21 ha (area); 543 m (perimeter)				Average Water Depth: unknown			
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
<del> </del>							
<del> </del>							
<del> </del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature	Easting	Northing	Accuracy (m)	Comments			
<del>None</del>							
<del> </del>							
<del> </del>							
<del> </del>							
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
on S side: Searched SWT and narrow channel leading to open water ponds at east end. Also checked N side of swamp but habitat was not good for turtles.							

GBHE  
 RWBL  
 SOSP  
 WOFR - full chorus in SWT.  
 AMGO x2 - flying over.  
 TUUU x2 - " "

Brown-headed cowbird - 5 - in bush by SWT narrow channel.

Turtle Survey 1, station 2 - Apr. 6 / 20



**PROJECT AND SITE DATA**

Project No.: 012951 Project Title: Snell's Hollow East Date (yy/mm/dd): 20/04/06

Site Name: Turtle Station 3 No. of Photos: 4 Site No.: 3 Sample No.: 1

Crew Members (initials): NP, SG

**GPS DATA**

Location UTM: 595998.87E, 4844833.76<sup>N</sup> UTM Zone: 17T Map Attached:

**WEATHER**

Start Time: 13:02	Search Duration: 40 min.	Air Temp. Start (°C): 15.1	Water Temp. (°C): 1	Wind (km/hr) (Beaufort): 1	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)
End Time: 13:42		Air Temp. End (°C): 14.5	Precip (mm): -	Cloud Cover (%): 10	

**HABITAT**

Proportion of Suitable Habitat Surveyed: 90%

Wetland Type: Open water SASI-1 and narrow channel - cattail marsh. Substrate: unknown

Wetland Size (dimensions, area): 0.81 ha (area); 565 m (perimeter). Average Water Depth: unknown.

Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other

Terrestrial Shoreline Habitat (ELC)

**BLANDING TURTLE OBSERVATIONS**

Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							

**INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES**

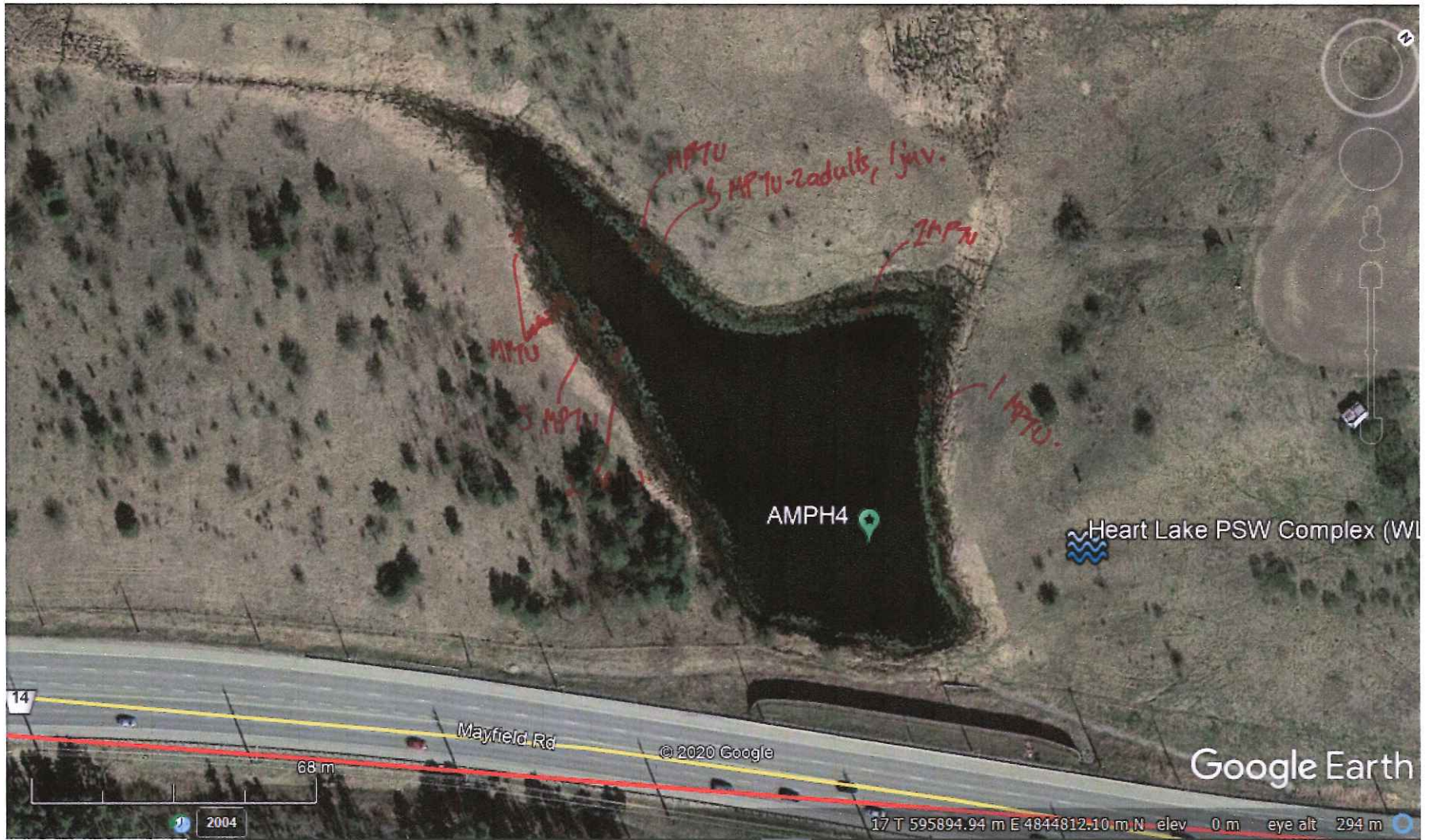
Species/Feature	Easting	Northing	Accuracy (m)	Comments
Midland Painted Turtle <sup>MPTU</sup>	595937.36	4844860.61	5	1 adult, basking in veg.
MPTU	"	"	"	" " " " "
MPTU	"	"	"	1 juvenile, " " "
MPTU	595918.56	4844838.15	"	Basking in veg.
MPTU	595933.52	4844861.27	"	" " "

**GENERAL COMMENTS (habitat notes, invasive species, potential threats)**

MPTU	595941.80	4844841.07	"	" " "
MPTU	"	"	"	" " "
MPTU	"	"	"	" " "
MPTU	"	"	"	" " "
MPTU	"	"	"	" " "
MPTU	595953.36	4844837.96	"	" " "
MPTU	"	"	"	" " "
MPTU	596006.39	4844841.88	"	" " "
MPTU	595972.30	4844841.6	"	" " "

GBHE  
Bl. c. ch  
Mallards = P

Turtle Survey 1, station 3 - Apr. 6/20

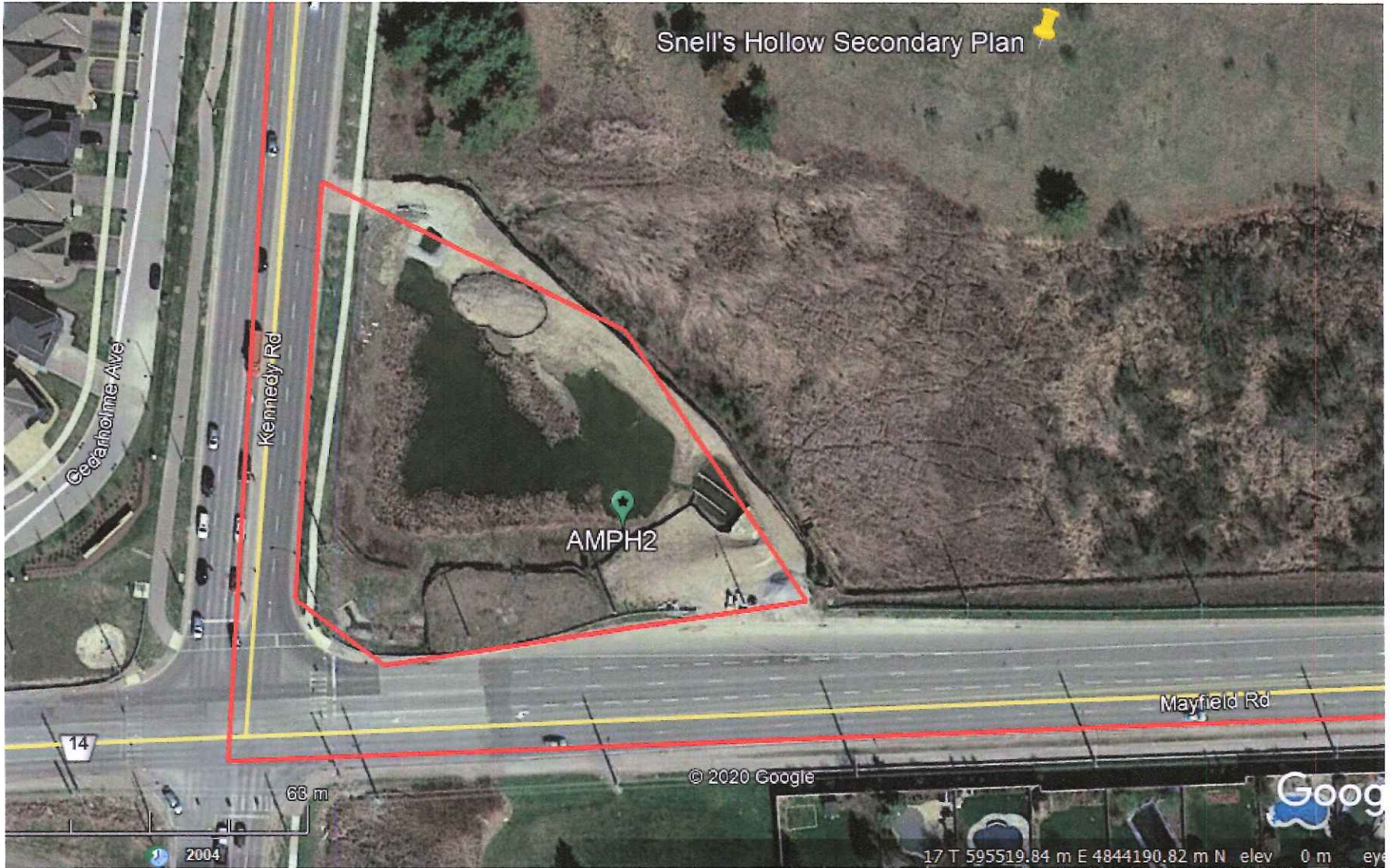




PROJECT AND SITE DATA							
Project No.: 04395		Project Title: Smelly Hollow East				Date (yy/mm/dd): 20/04/25	
Site Name: Turtle station 1					No. of Photos: 0	Site No.:	Sample No.: 2
Crew Members (Initials): Nadine Price							
GPS DATA							
Location UTM: 595451.291E, 4844130.764N					UTM Zone: 17T		Map Attached: <input checked="" type="checkbox"/>
WEATHER							
Start Time: 12:18	Search Duration 10 min.	Air Temp. Start (°C): 15	Water Temp. (°C):	Wind (km/hr) (Beaufort): 2	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 12:28		Air Temp. End (°C): 15.1	Precip (mm):	Cloud Cover (%):			
HABITAT							
Proportion of Suitable Habitat Surveyed: 90%							
Wetland Type: SWM pond w cattails dominant					Substrate: unknown		
Wetland Size (dimensions, area): 0.20 ha (area); 187 m (perimeter)					Average Water Depth: unknown		
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged		<input type="checkbox"/> Reed/Phragmites	
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent		<input type="checkbox"/> Other	
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature	Easting	Northing	Accuracy (m)	Comments			
<del>None</del>							
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
Incidental Wildlife							
2 CAGS							
RW/BL-S							
Modo-P							
CoGK							
5052 S - in shrubs near pond.							
Chipping Sp. - in tree near pond							

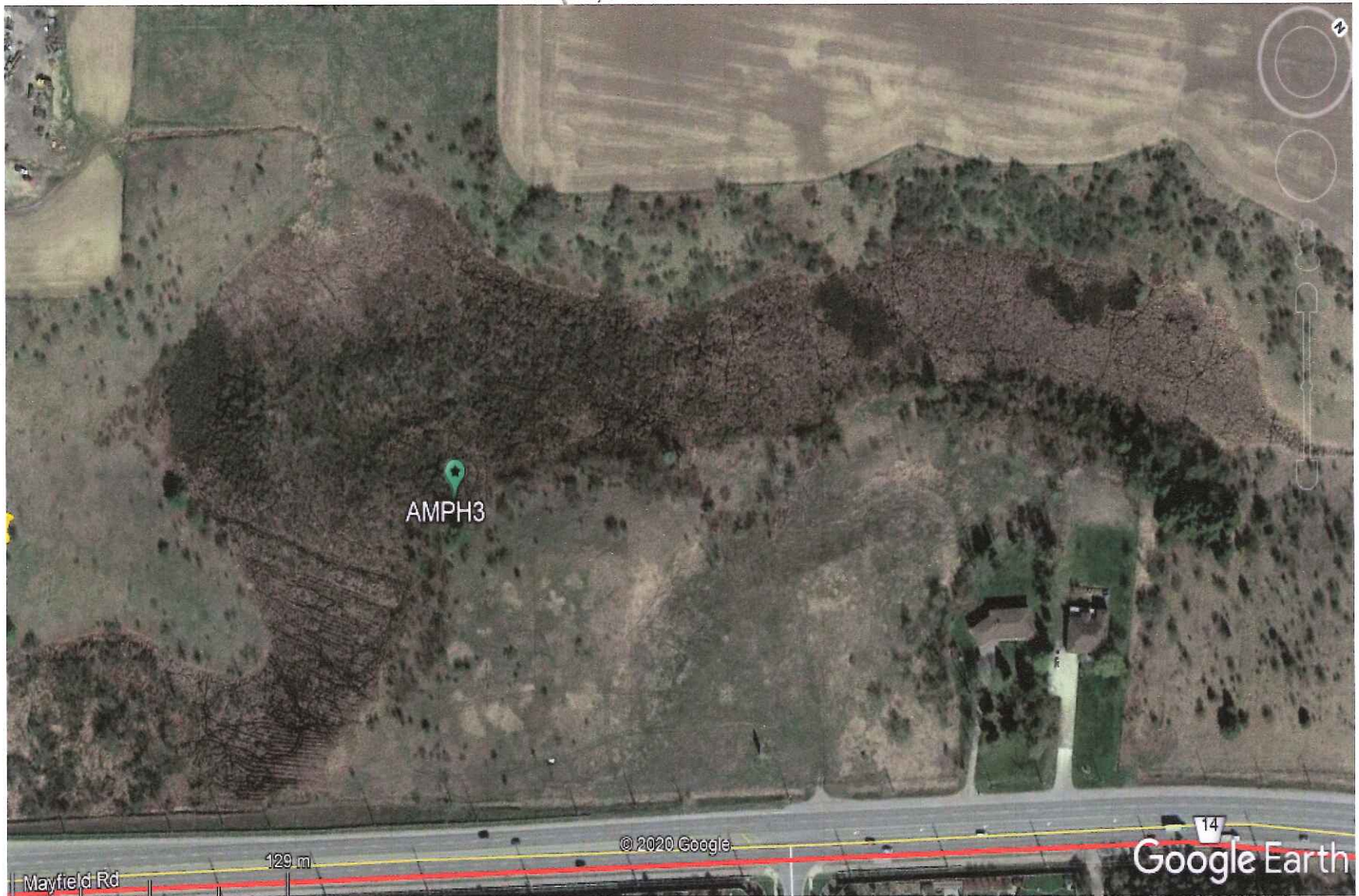
Turtlesurvey-Turtle station 1

Apr. 21/20



PROJECT AND SITE DATA							
Project No.: 01992		Project Title: Snell's Hollow East				Date (yy/mm/dd): 2010/1/25	
Site Name: Turtle station 2					No. of Photos: 0	Site No.: 2	Sample No.: 2
Crew Members (initials): Nadine Price							
GPS DATA							
Location UTM: 59S687.74E, 4984590.57N					UTM Zone: 17T	Map Attached: <input checked="" type="checkbox"/>	
WEATHER							
Start Time: 12:40	Search Duration: 30 min	Air Temp. Start (°C): 17.0	Water Temp. (°C):	Wind (km/hr) (Beaufort): 2	Beaufort Wind Scale: 0=Calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 1:19 pm		Air Temp. End (°C): 15	Precip (mm):	Cloud Cover (%): 1			
HABITAT							
Proportion of Suitable Habitat Surveyed: 5-10%							
Wetland Type: Cattail marsh					Substrate: _____		
Wetland Size (dimensions, area): 1.21 ha (area); 543m (perimeter)					Average Water Depth: _____		
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature	Easting	Northing	Accuracy (m)	Comments			
<del>None</del>							
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
Incidental Wildlife:							
Am. Goldfish - S.							
FWBC - S.							
RTH - flying over							
Wood calling - call coded ~ S ind? in swamp or so...							
Eastern Kingbird perched in tree by swamp							

Turtle survey 2, station 2 Apr 2020



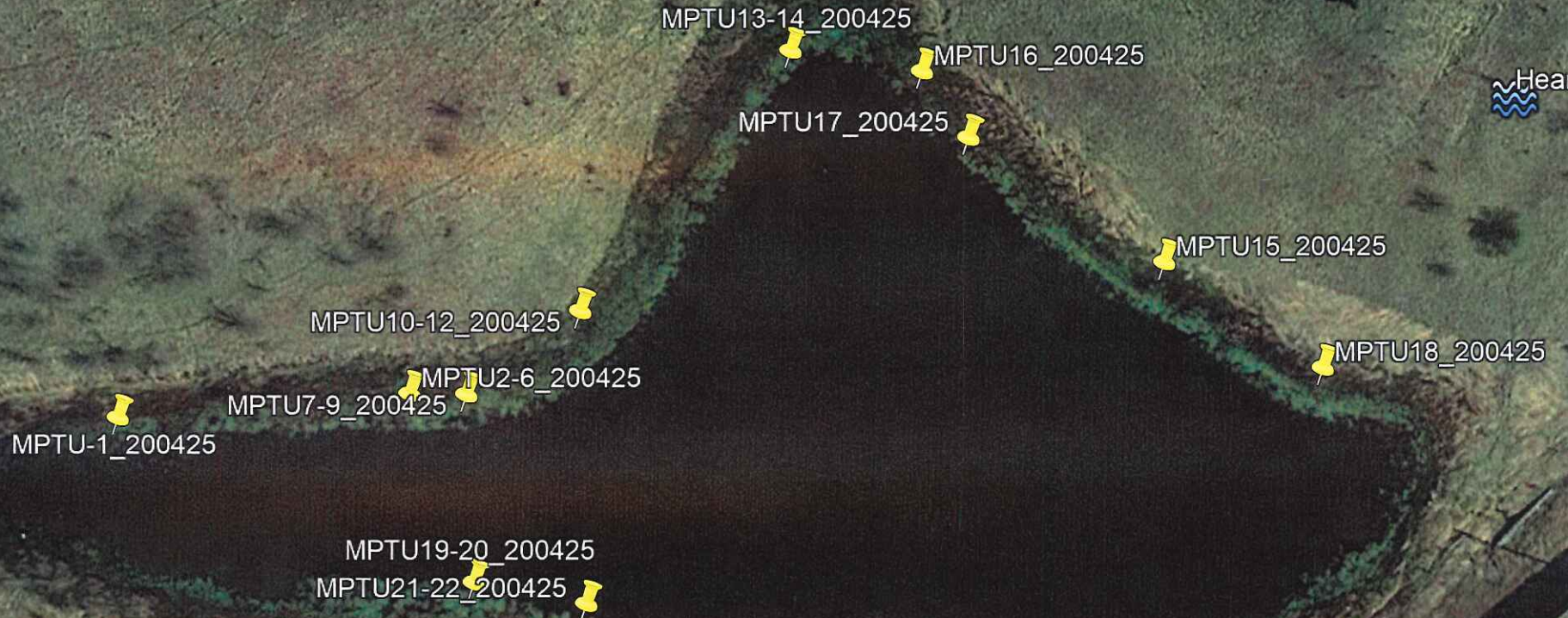


# Turtle Survey 2, Station 3 - Apr. 25, 2020

300043952.0000 Snell's Hollow East Secondary Plan

## Legend

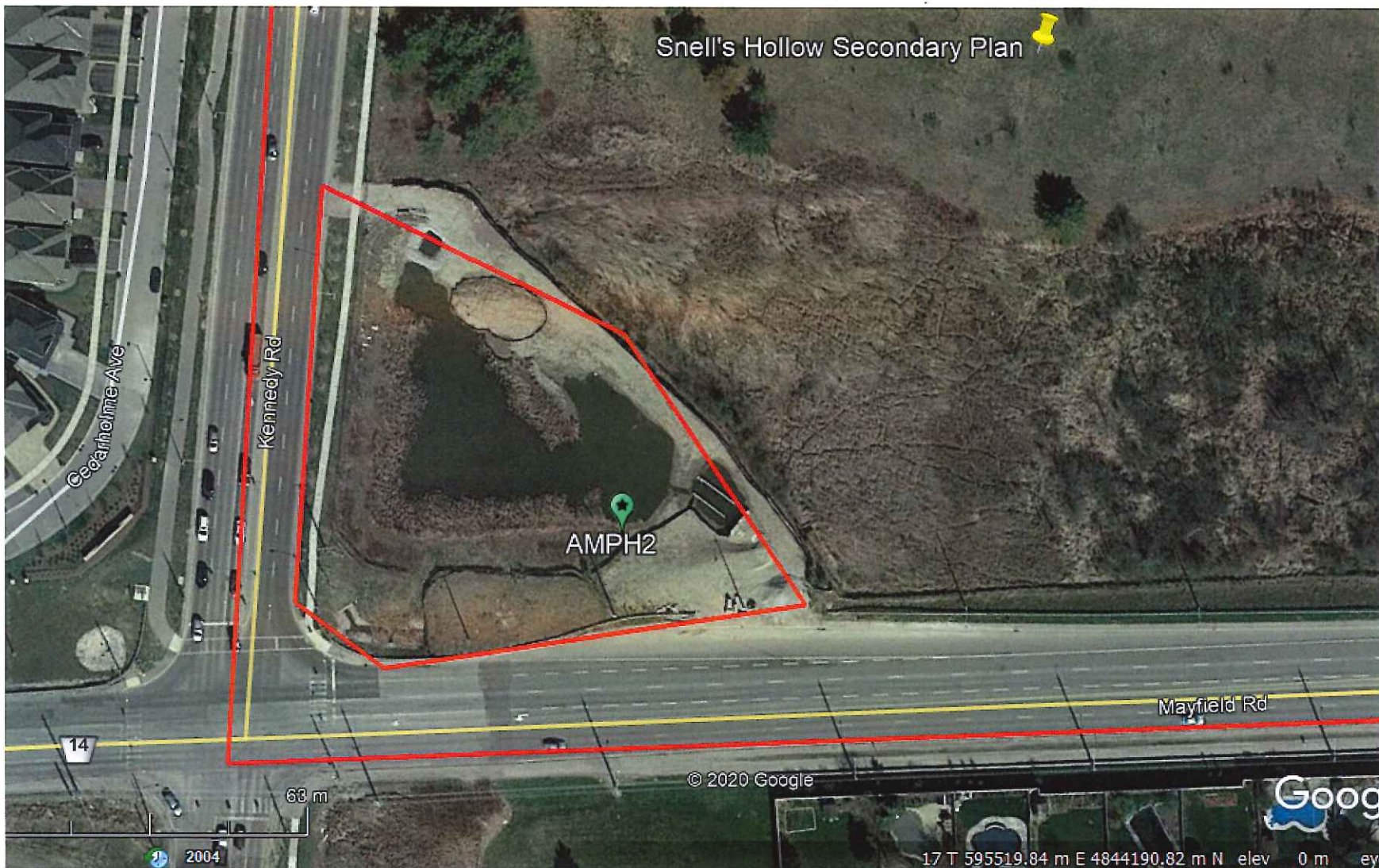
 Midland Painted Turtle



PROJECT AND SITE DATA							
Project No.: 04395 Project Title: Snell's Hollow East					Date (yy/mm/dd): 20/04/27		
Site Name: Turtle Station 1				No. of Photos: 0	Site No.:	Sample No.: 3	
Crew Members (initials): NB, Me Price, Meredith Meeker							
GPS DATA							
Location UTM: 59S451.209E, 4884130.761 <sup>4N</sup>				UTM Zone: 17T	Map Attached: <input checked="" type="checkbox"/>		
WEATHER							
Start Time: 13:45	Search Duration: 11 min.	Air Temp. Start (°C): 13.1	Water Temp. (°C):	Wind (km/hr) (Beaufort): 1	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face, leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 13:56		Air Temp. End (°C): 13.1	Precip (mm): 0	Cloud Cover (%): 60			
HABITAT							
Proportion of Suitable Habitat Surveyed: 90%							
Wetland Type: SWM pond w cattails dominant				Substrate: unknown			
Wetland Size (dimensions, area): 0.20 ha (area); 187 m (perimeter)				Average Water Depth: unknown			
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Eastings	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature	Eastings	Northing	Accuracy (m)	Comments			
<del>None</del>							
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
2 adult CA 60 & 6 gaslings.							

Turtle survey 3 - Station 1

Apr. 27/20.





PROJECT AND SITE DATA

Project No.: 04988 Project Title: Smell's Hollow East Date (yy/mm/dd): 20/04/27  
 Site Name: Turtle Station 2 No. of Photos: 0 Site No.: 2 Sample No.: 3  
 Crew Members (initials): NB, Price, Meredith Meeker

GPS DATA

Location UTM: 59S687.74E, 4844590.58N UTM Zone: 17T Map Attached:

WEATHER

Start Time: <u>14:05</u>	Search Duration: <u>23 min.</u>	Air Temp. Start (°C): <u>16.0</u>	Water Temp. (°C):	Wind (km/hr) / (Beaufort): <u>1</u>	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face, leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)
End Time: <u>14:27</u>		Air Temp. End (°C): <u>14.6</u>	Precip (mm): <u>0</u>	Cloud Cover (%): <u>60</u>	

HABITAT

Proportion of Suitable Habitat Surveyed 5-10%  
 Wetland Type: Cattail marsh Substrate: \_\_\_\_\_  
 Wetland Size (dimensions, area): 1.21 ha (area); 543m (perimeter) Average Water Depth: \_\_\_\_\_  
 Vegetation (check all that apply):  
 Rush/Sedges  Trees  Shrub/Thicket  Aquatic Submerged  Reed/Phragmites  
 Floating Mat  Cattail  Sphagnum/Peat  Aquatic Emergent  Other

Terrestrial Shoreline Habitat (ELC)

BLANDING TURTLE OBSERVATIONS

Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.	Notes
<u>None</u>							

INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES

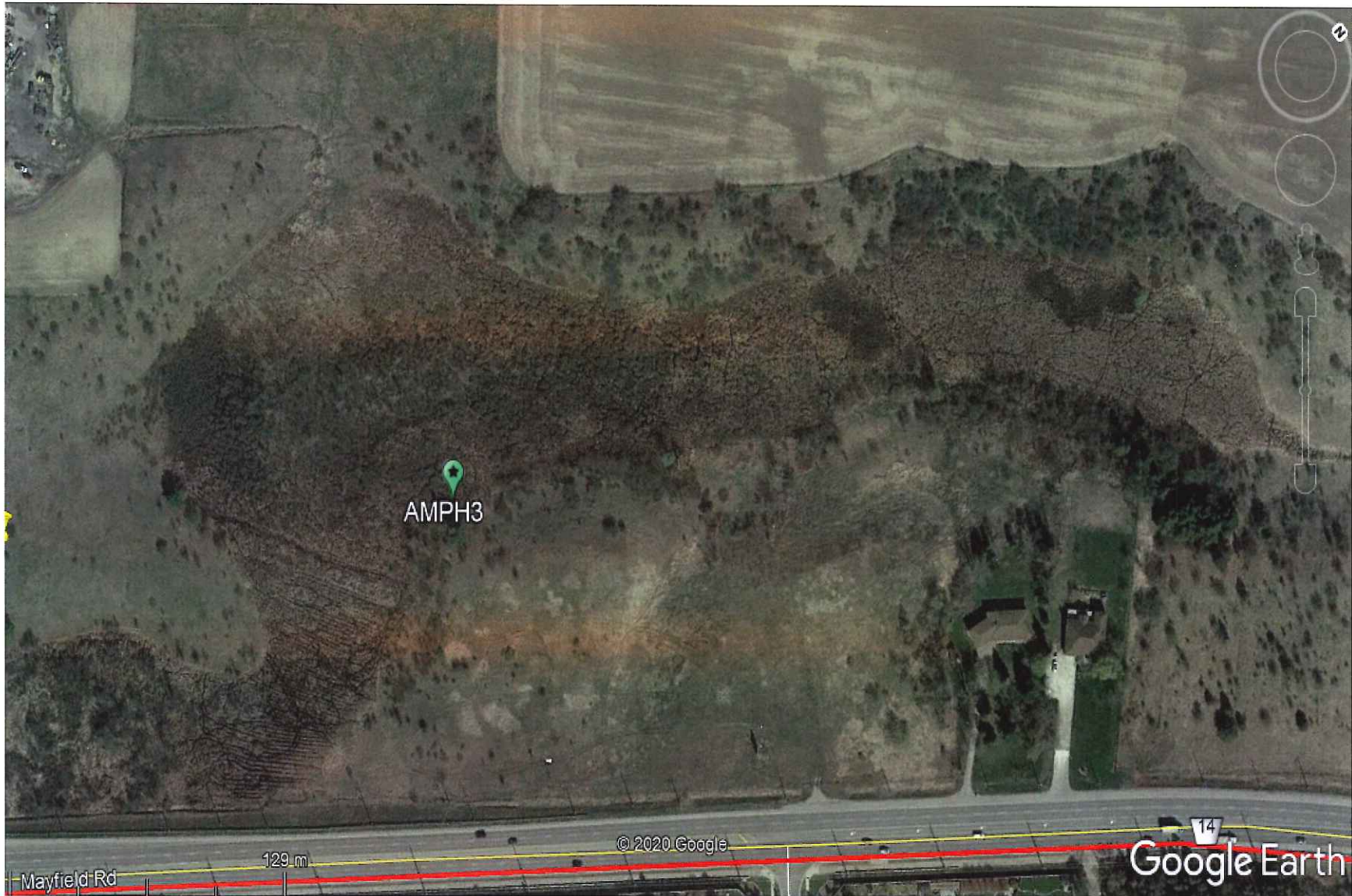
Species/Feature	Easting	Northing	Accuracy (m)	Comments
<u>None</u>				

GENERAL COMMENTS (habitat notes, invasive species, potential threats)

Am. woodcock observed !!  
Wthr. calling.

Turtle survey 3 - Station 2

Apr. 27/20



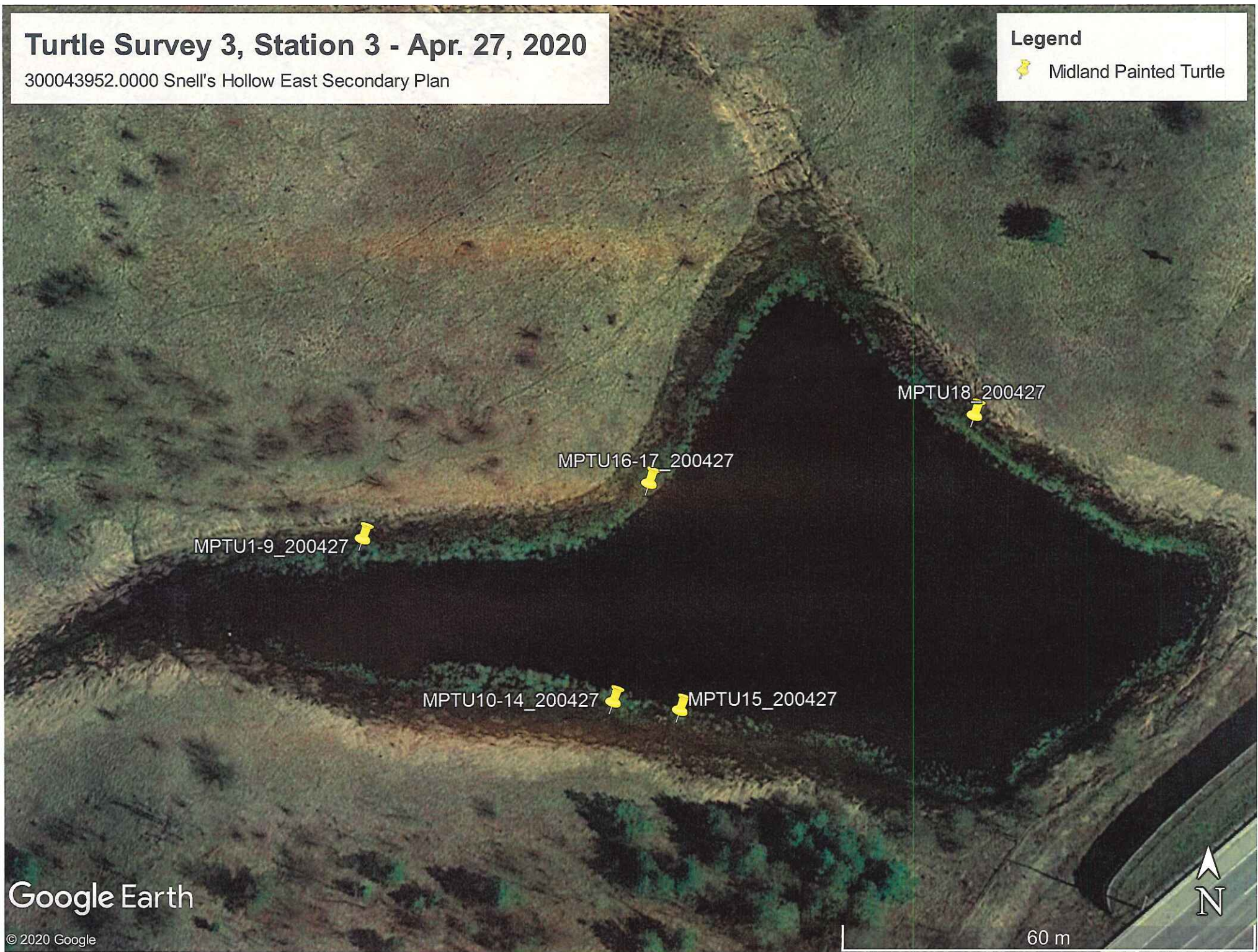
PROJECT AND SITE DATA							
Project No.: 04319			Project Title: Snell's Hollow East		Date (yy/mm/dd): 20/04/27		
Site Name: Turtle Station 3				No. of Photos: 0	Site No.: 3 Sample No.: 3		
Crew Members (initials): NP, MM							
GPS DATA							
Location UTM: 595998.87E, 4844835.74N				UTM Zone: 17T	Map Attached: <input checked="" type="checkbox"/>		
WEATHER							
Start Time: 14:27		Search Duration: 53 min	Air Temp. Start (°C): 12.5	Water Temp. (°C):	Wind (km/hr) (Beaufort): 1		
End Time: 15:20			Air Temp. End (°C): 14.1	Precip (mm): 0	Cloud Cover (%): 80		
Beaufort Wind Scale: 0=Calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face, leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)							
HABITAT							
Proportion of Suitable Habitat Surveyed: 90%			cattail marsh				
Wetland Type: Open water SAS 1-1 and narrow channel				Substrate: unknown			
Wetland Size (dimensions, area): 0.81 ha (area); 565 m (perimeter)				Average Water Depth: unknown			
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature	UTM Easting	UTM Northing	Accuracy (m)	Comments			
MPTU-9 (9 Midland Painted)	595920	4844860	4 m	Basking in aquatic veg near rock			
MPTU-14 (5 " " " " )	595958	4844836	6	" " " " "			
MPTU-15 (1 Midland Painted)	595968	4844835	6 m	" " " "			
MPTU-16/17 (2 " " " " )	595963	4844869	6	" " " "			
MPTU-18 (1 Midland Painted)	596012	4844880	6	" " " "			
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
Incidental wildlife: N. rough-winged swallow = foraging over pond.							

# Turtle Survey 3, Station 3 - Apr. 27, 2020

300043952.0000 Snell's Hollow East Secondary Plan

## Legend

 Midland Painted Turtle



Google Earth

© 2020 Google




60 m

PROJECT AND SITE DATA							
Project No.: 010646		Project Title: Snell's Hollow East				Date (yy/mm/dd): 2005/02	
Site Name: Turtle Station 1				No. of Photos: 2	Site No.: 1	Sample No.: 4	
Crew Members (initials): Nadine Price, Meredith Meeker							
GPS DATA							
Location UTM: 595451.299E, 4844130.764N				UTM Zone: 17T	Map Attached: <input checked="" type="checkbox"/>		
WEATHER							
Start Time: 11:55 am	Search Duration: 16 min.	Air Temp. Start (°C): 13.5	Water Temp. (°C): 13.5	Wind (km/hr) (Beaufort): 23	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 12:41 pm		Air Temp. End (°C): 13.3	Precip (mm): 0	Cloud Cover (%): 100			
HABITAT							
Proportion of Suitable Habitat Surveyed: 90%							
Wetland Type: SWM pond w cattails dominant				Substrate: unknown			
Wetland Size (dimensions, area): 0.20 ha (area); 187 m (perimeter)				Average Water Depth: unknown			
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
<del> </del>							
<del> </del>							
<del> </del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature	Easting	Northing	Accuracy (m)	Comments			
MPTU - SWM (Midland Painted Turtle)	595480	4844165	4	Hatchling!			
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
Incidental wildlife: Luvu - seen flying overhead...							

# Turtle Survey 4, Station 1 - May 2, 2020

300043952.0000 Snell's Hollow East Secondary Plan

## Legend

 Midland Painted Turtle



Google Earth

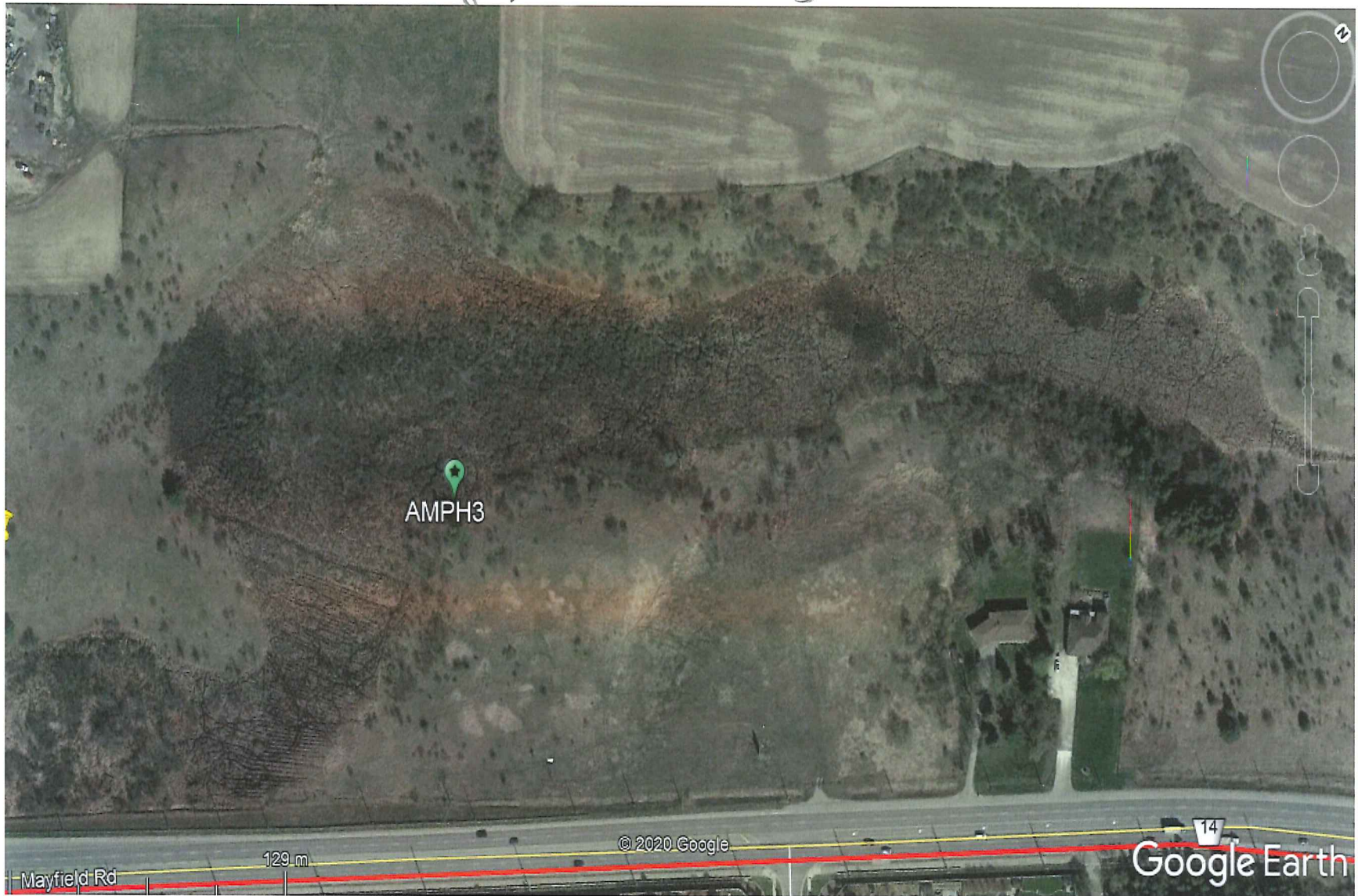
© 2020 Google



50 m

PROJECT AND SITE DATA							
Project No.: 04895F		Project Title: Snelly's Hollow East				Date (yy/mm/dd): 20/05/02	
Site Name: Turtle station 2				No. of Photos: 0	Site No.: 2	Sample No.: 4	
Crew Members (initials): Nadine Price, Meredith Meeker							
GPS DATA							
Location UTM: 595687.74E, 4844590.58N				UTM Zone: 17T	Map Attached: <input checked="" type="checkbox"/>		
WEATHER							
Start Time: 12:28	Search Duration 15 min	Air Temp. Start (°C): 10.4	Water Temp. (°C):	Wind (km/hr) (Beaufort) 2	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face, leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 12:43		Air Temp. End (°C): 17.8	Precip (mm): 0	Cloud Cover (%): 90			
HABITAT							
Proportion of Suitable Habitat Surveyed 5-10%							
Wetland Type: Cattail marsh				Substrate: unknown			
Wetland Size (dimensions, area) 1.21 ha (area); 543 m (perimeter)				Average Water Depth: unknown			
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature	Easting	Northing	Accuracy (m)	Comments			
<del>None</del>							
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
Incidental wildlife: Chipmunks x2 chasing each other near swamp Cardinal - 5 Cottontail rabbit - 1 on hill in field by swamp							

Turtle survey 4, station 2 May 2/20





**PROJECT AND SITE DATA**

Project No.: 04399		Project Title: Snell's Hollow East		Date (yy/mm/dd): 20/05/02	
Site Name: Turtle station 3			No. of Photos: 0	Site No.: 3	Sample No.: 4
Crew Members (initials): Nadine Price, Meredith Meeker					

**GPS DATA**

Location UTM: 59S998.81E, 4844833.76N	UTM Zone: 17T	Map Attached: <input checked="" type="checkbox"/>
---------------------------------------	---------------	---------------------------------------------------

**WEATHER**

Start Time: 12:40	Search Duration: 51 min	Air Temp. Start (°C): 17.2	Water Temp. (°C):	Wind (km/hr) (Beaufort): 2	<small>Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves &amp; twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust &amp; loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)</small>
End Time: 13:37		Air Temp. End (°C): 15.3	Precip (mm): 0	Cloud Cover (%): 90	

**HABITAT**

Proportion of Suitable Habitat Surveyed: 90%	cattail marsh
Wetland Type: Open water SAST-1 and narrow channel	Substrate: unknown
Wetland Size (dimensions, area): 0.81 ha (area); 565m (perimeter)	Average Water Depth: unknown
<b>Vegetation</b> (check all that apply)	
<input type="checkbox"/> Rush/Sedge <input type="checkbox"/> Trees <input type="checkbox"/> Shrub/Thicket <input type="checkbox"/> Aquatic Submerged <input type="checkbox"/> Reed/Phragmites	
<input type="checkbox"/> Floating Mat <input checked="" type="checkbox"/> Cattail <input type="checkbox"/> Sphagnum/Peat <input type="checkbox"/> Aquatic Emergent <input type="checkbox"/> Other	

Terrestrial Shoreline Habitat (ELC)

**BLANDING TURTLE OBSERVATIONS**

Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.	Notes
None							

**INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES**

Species/Feature	Easting	Northing	Accuracy (m)	Comments
MPT01 (1 Midland Painted Turtle)	595949	4844839	6	Basking in vegetation.
MPT02-5 (4 " " " " )	595962	4844836	6	" " "
MPT06 (1 " " " " )	595928	4844859	6	" " "
MPT07 (1 " " " " )	595977	4844869	6	Head sticking out of water, swimming.

**GENERAL COMMENTS** (habitat notes, invasive species, potential threats)

Became overcast and a little windy during survey and most turtles disappeared.	Incidental wildlife: ♀ Herring gull merganser on pond Sandpiper on shore ♂ Bluehead on pond.
--------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------


# Turtle Survey 4, Station 3 - May 2, 2020


300043952.0000 Snell's Hollow East Secondary Plan

## Legend


 Midland Painted Turtle

Heart Lake PSW

 MPTU7\_200502

 MPTU6\_200502

MPTU1\_200502

 MPTU2-5\_200502

Google Earth

© 2020 Google



70 m

PROJECT AND SITE DATA

Project No.: 04392 Project Title: Snell's Hollow East Date (yy/mm/dd): 20/05/13  
 Site Name: Turtle station 1 No. of Photos: 5 Site No.: 1 Sample No.: 5  
 Crew Members (initials): Nadine Price, Meredith Hecker

GPS DATA  
 Location UTM: 59S451.299E, 4884130.76<sup>4N</sup> UTM Zone: 17T Map Attached:

WEATHER  
 Start Time: 11:18 Search Duration: 12 min Air Temp. Start (°C): 11.2 Water Temp. (°C): Wind (km/hr) (Beaufort): 1  
 End Time: 11:30 Air Temp. End (°C): 9.3 Precip (mm): Cloud Cover (%): 5  
 Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)

HABITAT

Proportion of Suitable Habitat Surveyed: 90%  
 Wetland Type: SWM pond w cattails dominant Substrate: unknown  
 Wetland Size (dimensions, area): 0.20 ha (area); 157 m (perimeter) Average Water Depth: unknown  
 Vegetation (check all that apply):  
 Rush/Sedge  Trees  Shrub/Thicket  Aquatic Submerged  Reed/Phragmites  
 Floating Mat  Cattail  Sphagnum/Peat  Aquatic Emergent  Other

Terrestrial Shoreline Habitat (ELC)

BLANDING TURTLE OBSERVATIONS

Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							

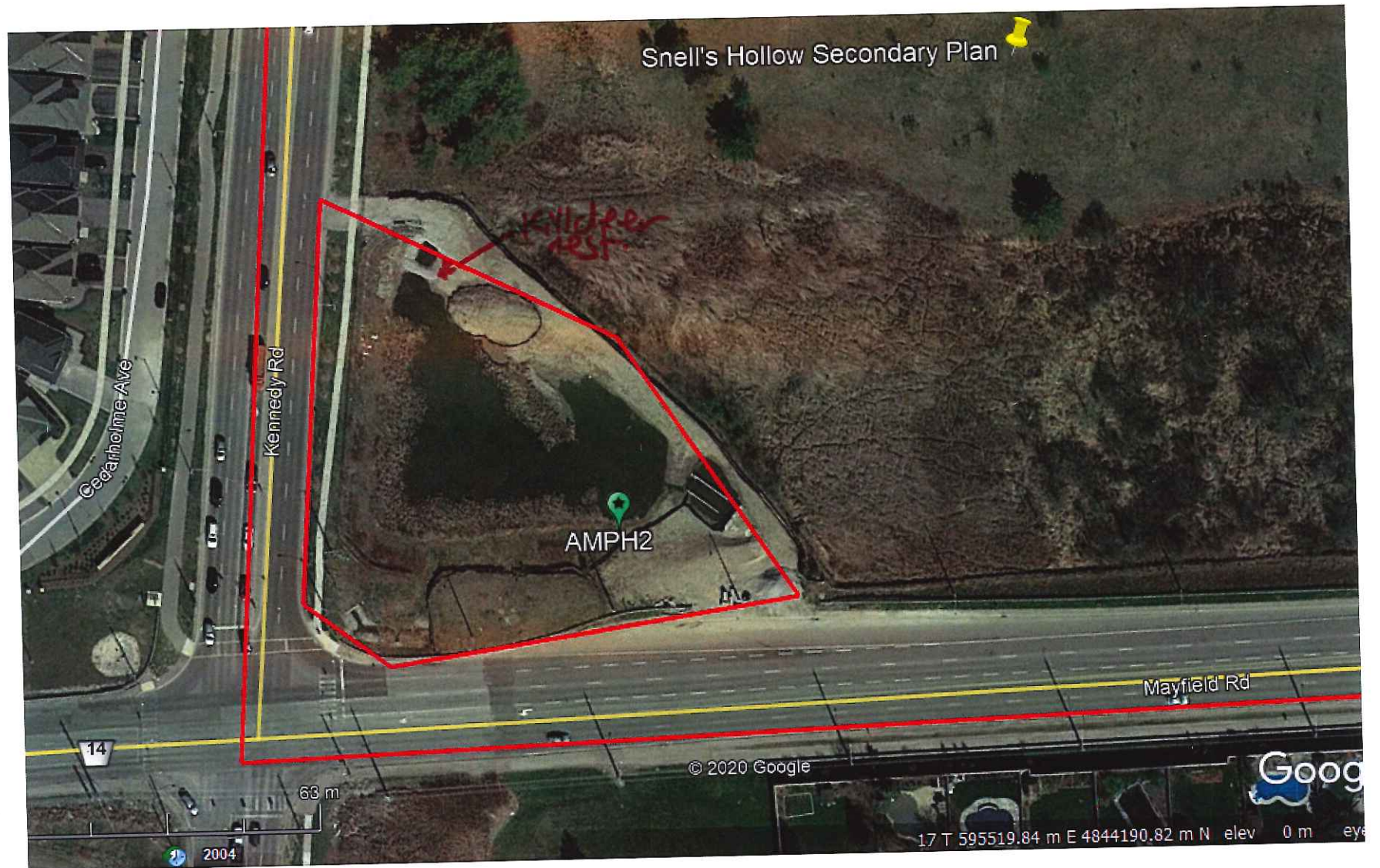
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES

Species/Feature	Easting	Northing	Accuracy (m)	Comments
<del>None</del>				

GENERAL COMMENTS (habitat notes, invasive species, potential threats) *Incidental wildlife:*

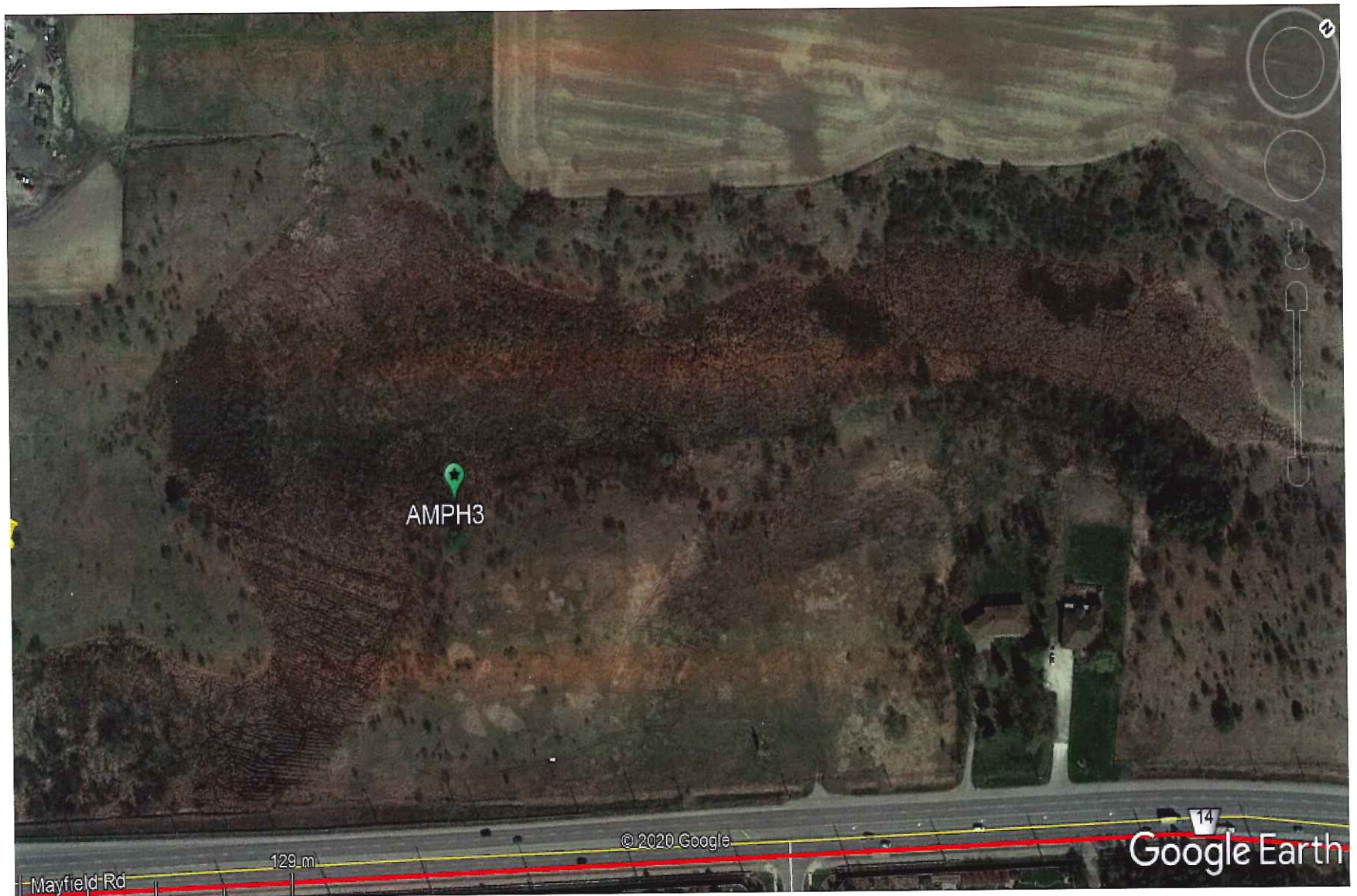
*Killed egg nest - GPS coordinates noted to letter on it. In Esp I collect and will be put into incidental wildlife list.*

Turtle Survey S - Turtle Station 1, May 13/20



PROJECT AND SITE DATA							
Project No.: 04955 Project Title: Snell's Hollow East						Date (yy/mm/dd): 20/05/13	
Site Name: Turtle Station 2				No. of Photos: 6	Site No.: 2	Sample No.: 5	
Crew Members (initials): Nadine Price, Meredith Meeker							
GPS DATA							
Location UTM: 595687.74E, 4844590.58N				UTM Zone: 17T		Map Attached: <input checked="" type="checkbox"/>	
WEATHER							
Start Time: 11:46	Search Duration: 29 min.	Air Temp. Start (°C): 12.5	Water Temp. (°C):	Wind (km/hr) (Beaufort): 1	Beaufort Wind Scale: 0=calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: 12:15	Air Temp. End (°C): 14.0	Precip (mm): 0	Cloud Cover (%): 0				
HABITAT							
Proportion of Suitable Habitat Surveyed: 5-10%							
Wetland Type: Cattail marsh				Substrate: unknown			
Wetland Size (dimensions, area): 1.21 ha (area); 543 m (perimeter)				Average Water Depth: unknown			
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
BLANDING TURTLE OBSERVATIONS							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<del>None</del>							
INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES							
Species/Feature		Easting	Northing	Accuracy (m)	Comments		
<del>None</del>							
GENERAL COMMENTS (habitat notes, invasive species, potential threats)							
Incidental wildlife: Gray catbird - H White-throated sparrow - S Tri-Collar warbling in tree by swamp. Chipmunk in tree.							

Turtle survey 5, station 2 May 13/20



**PROJECT AND SITE DATA**


Project No.: <u>0414P</u>		Project Title: <u>Snell's Hollow East</u>		Date (yy/mm/dd): <u>20/05/13</u>			
Site Name: <u>Turtle Station 3</u>			No. of Photos: <u>3</u>	Site No.: <u>3</u>	Sample No.: <u>5</u>		
Crew Members (initials): <u>Nadine Price, Meredith Meeker</u>							
<b>GPS DATA</b>							
Location UTM: <u>595898.87E, 4844833.76N</u>			UTM Zone: <u>17T</u>	Map Attached: <input checked="" type="checkbox"/>			
<b>WEATHER</b>							
Start Time: <u>12:21</u>	Search Duration: <u>1 hr 1 min</u>	Air Temp. Start (°C): <u>14</u>	Water Temp. (°C):	Wind (km/hr) (Beaufort): <u>1</u>	Beaufort Wind Scale: 0=Calm, smoke rises vertically (0-2 km/hr); 1=Light air movement, smoke drifts (3-5); 2=Slight breeze, wind felt on face; leaves rustle (6-11); 3=Gentle breeze, leaves & twigs in constant motion (12-19); 4=Moderate breeze, small branches moving, raises dust & loose paper (20-30); 5=Fresh breeze, small trees begin to sway (31-39); 6=Strong breeze, large branches in motion (40-50)		
End Time: <u>13:22</u>		Air Temp. End (°C): <u>13.5</u>	Precip (mm): <u>Ø</u>	Cloud Cover (%): <u>0</u>			
<b>HABITAT</b>							
Proportion of Suitable Habitat Surveyed: <u>90%</u>							
Wetland Type: <u>Open water, SASI-1 and narrow channel - cattail marsh</u>				Substrate: <u>unknown</u>			
Wetland Size (dimensions, area): <u>0.81 ha (area); 565 m (perimeter)</u>				Average Water Depth: <u>unknown</u>			
Vegetation (check all that apply)	<input type="checkbox"/> Rush/Sedge	<input type="checkbox"/> Trees	<input type="checkbox"/> Shrub/Thicket	<input type="checkbox"/> Aquatic Submerged	<input type="checkbox"/> Reed/Phragmites		
	<input type="checkbox"/> Floating Mat	<input checked="" type="checkbox"/> Cattail	<input type="checkbox"/> Sphagnum/Peat	<input type="checkbox"/> Aquatic Emergent	<input type="checkbox"/> Other		
Terrestrial Shoreline Habitat (ELC)							
<b>BLANDING TURTLE OBSERVATIONS</b>							
Easting	Northing	Accuracy (m)	Time	Behavior	Age/Sex	Photo No.:	Notes
<u>None</u>							
<b>INCIDENTAL OBSERVATIONS OF OTHER SPECIES OR IMPORTANT HABITAT FEATURES</b>							
Species/Feature	Easting	Northing	Accuracy (m)	Comments			
MP TU1 (1 Midland Painted Turtle)	595930	4844859	4 m	Head sticking up in water			
MP TU2-3 (2 " " " " )	595940	4844861	8 m	Basking among duck & other on meadow.			
MP TU4 (1 " " " " )	595935	4844859	8	" " cattails.			
MP TU5-6 (2 " " " " )	595951	4844862	8	" in veg.			
MP TU7 (1 " " " " )	595951	4844860	6	Swimming in water with head up.			
<b>GENERAL COMMENTS (habitat notes, invasive species, potential threats)</b>							
MP TU8 (1 Midland Painted Turtle)	595956	4844866	6	Basking in veg. <u>Incidental wildlife:</u> GBITE flying over			
MP TU9 (" " " " )	596023	4844873	6	" " " " Muskrat in pond			
MP TU10-12 (3 " " " " )	596010	4844881	6	" " " " Trumpeter Swan on pond			
MP TU13 (1 " " " " )	596008	4844883	6	" " " " Mallard nesting in cattails			
MP TU14-15 (2 " " " " )	596015	4844876	8	" " " " Osprey flew over less yellowlegs on pond wild turkey by cog field			

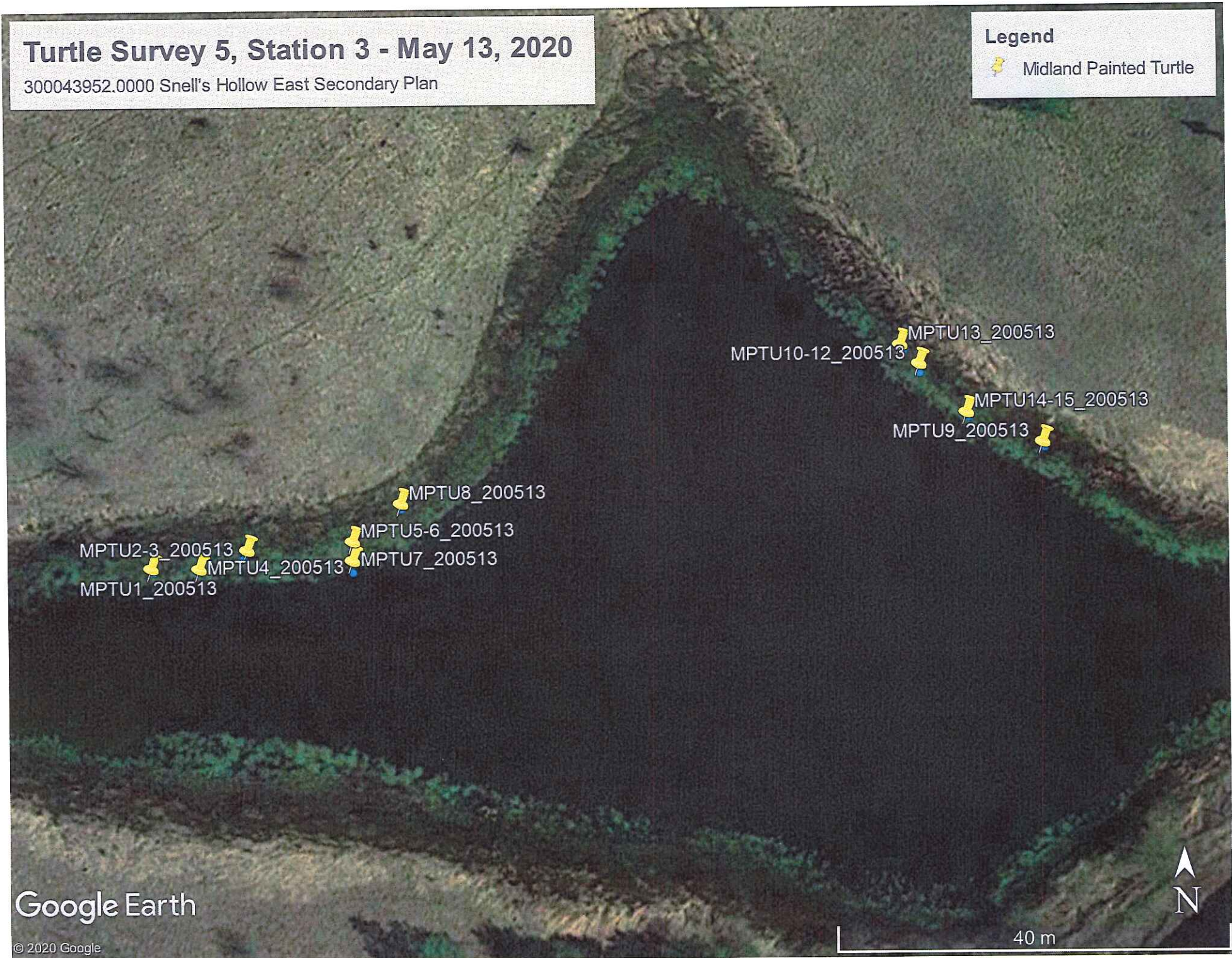
\*B0B0-2013 -> GPS coordinates noted in incidental wildlife list - seen in meadow on way out near Kennedy Rd (west end of site).

# Turtle Survey 5, Station 3 - May 13, 2020

300043952.0000 Snell's Hollow East Secondary Plan

## Legend

 Midland Painted Turtle



Google Earth

© 2020 Google

40 m



### Turtle Nesting Survey

Project Name: <u>Snells Hollow</u>		Survey Location: _____	
Project Number: _____		Easting: _____	
Site Surveyor: <u>HM</u>		Northing: _____	
Second Surveyor: <u>MM</u>		_____	
Date: <u>June 03</u>			
Air Temp (°C):	Start: <u>12:25</u>	Survey Time Start: <u>17:15</u>	Cloud Cover <sup>1</sup> : <u>10</u>
	End: <u>14:20</u> (24 hour)	End: <u>19:55</u>	Wind Scale <sup>2</sup> : <u>3</u>
Search Duration: <u>130/160 min</u>	Wetland Name: <u>Open - HLWC</u>	Precipitation: <u>0</u>	

#### Turtle Observations

UTM (Easting/Northing)	Time (24 hr)	Common Name	Count	Behaviour	Notes/Comments
<u>Open Water Pond</u>		<u>MPT</u>	<u>10+</u>	<u>in water / basking</u>	<u>no nesting evidence observed</u>

GPS coordinates, including accuracy: If multiple individuals of the same species are observed and are more than ten m from each other, separate GPS coordinates should be submitted for each individual. If the GPS location is taken from a shoreline and not the location of the turtle, include additional information to allow the point to be mapped accurately (e.g., turtle was 20 m NW of GPS location)

#### Incidental Observations of Other Species or Important Habitat Features

Name of Feature/Species	Count	Notes/Comments
<u>Gray tree Frog</u>	<u>3</u>	<u>call level 1</u>
<u>wood duck</u>	<u>1</u>	<u>female flying low to SWD</u>
<u>mallard</u>	<u>1</u>	<u>kill site</u>
<u>Musk Rat Den?</u>	<u>2</u>	<u>entry -&gt; exit?</u>

<sup>1</sup> NAAMP/ Beaufort Sky Codes

- 0 = clear (no cloud cover)
- 1 = partly cloudy (scattered or broken) or variable
- 2 = cloudy or overcast
- 3 = sandstorm, duststorm or blowing snow
- 4 = fog, smoke, thick dust, or haze

- 5 = drizzle or light rain
- 6 = rain
- 7 = snow or snow/rain mix
- 8 = showers
- 9 = thunderstorms

<sup>2</sup> Beaufort Wind Scale

- 0 = calm, smoke rises vertically (0-2km/hr)
- 1 = Light air movement, smoke drifts (3-5)
- 2 = Slight breeze, wind felt on face; leaves rustle (6-11)
- 3 = Gentle breeze, leaves & twigs in constant motion (12-19)

- 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);
- 5 = Fresh breeze, small trees begin to sway (31-39)
- 6 = Strong breeze, large branches in motion (40-50)

Crayfish burrows 5+  
Green Frog 1  
@ SWM Pond

### Turtle Nesting Survey

Project Name:	Snell's Hollow CEISMP		Survey Location	Start at SWM	
Project Number:			Easting:		
Site Surveyor:	MM		Northing:		
Second Surveyor:					
Date:	June 11, 2020				
Air Temp (°C):	Start:	24.2°C	Survey Time	Start:	17:22
	End:	21.25	(24 hour)	End:	20:03
Search Duration:			Wetland Name:	Heart Lake	
			Cloud Cover <sup>1</sup> :	15	
			Wind Scale <sup>2</sup> :	2	
			Precipitation:	0 20mm overnight	

#### Turtle Observations

UTM (Easting/Northing)	Time (24 hr)	Common Name	Count	Behaviour	Notes/Comments
43-7445 7124 -7A.3 1465503	17:29	Midland Painted	1		soft soil/bone under, no scraping
		"	1	swimming YOY	areas of Freshly
culvert	17:58	"	4	basking	Scraped ground
in front of hill	18:06	"	4	basking	
			2	basking	near outlet

GPS coordinates, including accuracy: If multiple individuals of the same species are observed and are more than ten m from each other, separate GPS coordinates should be submitted for each individual. If the GPS location is taken from a shoreline and not the location of the turtle, include additional information to allow the point to be mapped accurately (e.g., turtle was 20 m NW of GPS location)

#### Incidental Observations of Other Species or Important Habitat Features

Name of Feature/Species	Count	Notes/Comments
Green Frog	1	calling
More Crayfish burrows	4	channel leading to western marsh

<sup>1</sup> NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze

5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>2</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)

4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30)  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

### Turtle Nesting Survey

Project Name: <u>Smell's Hollow CEISMP</u>		Survey Location	
Project Number: _____		Easting: _____	
Site Surveyor: <u>MM, NP</u>		Northing: _____	
Second Surveyor: _____			
Date: <u>JUN 12, 2020</u>		Cloud Cover <sup>1</sup> : <u>70</u>	
Air Temp (°C):	Start: <u>16.3</u>	Survey Time	Start: <u>8:24</u>
	End: <u>16.7</u>	(24 hour)	End: <u>10:37</u>
Search Duration: _____	Wetland Name: _____		Wind Scale <sup>2</sup> : <u>4</u>
			Precipitation: <u>0</u>

#### Turtle Observations

UTM (Easting/Northing)	Time (24 hr)	Common Name	Count	Behaviour	Notes/Comments
	<u>9:46</u>	<u>MPTC</u>	<u>2</u>	<u>basking</u>	<u>bar-colvert</u>

GPS coordinates, including accuracy: If multiple individuals of the same species are observed and are more than ten m from each other, separate GPS coordinates should be submitted for each individual. If the GPS location is taken from a shoreline and not the location of the turtle, include additional information to allow the point to be mapped accurately (e.g., turtle was 20 m NW of GPS location)

#### Incidental Observations of Other Species or Important Habitat Features

Name of Feature/Species	Count	Notes/Comments

<sup>1</sup>NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze

5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>2</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)

4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

### Turtle Nesting Survey

Project Name: <u>Snell's Hollow CEISMP</u>		Survey Location	
Project Number: _____	Easting: _____		
Site Surveyor: <u>MM</u>	Northing: _____		
Second Surveyor: <u>NP</u>	Date: <u>June 17, 2020</u>		
Air Temp (°C):	Start: <u>37.0</u>	Survey Time	Start: <u>18:27</u>
	End: <u>23.3</u>	(24 hour)	End: <u>20:57</u>
Search Duration: _____	Wetland Name: _____	Cloud Cover <sup>1</sup> : <u>0</u>	Wind Scale <sup>2</sup> : <u>0</u>
		Precipitation: <u>0</u>	

### Turtle Observations

UTM (Easting/Northing)	Time (24 hr)	Common Name	Count	Behaviour	Notes/Comments
	<u>19:42</u>	<u>MPTV</u>	<u>7</u>	<u>in water</u>	

GPS coordinates, including accuracy: If multiple individuals of the same species are observed and are more than ten m from each other, separate GPS coordinates should be submitted for each individual. If the GPS location is taken from a shoreline and not the location of the turtle, include additional information to allow the point to be mapped accurately (e.g., turtle was 20 m NW of GPS location)

### Incidental Observations of Other Species or Important Habitat Features

Name of Feature/Species	Count	Notes/Comments
<u>Monarch</u>		
<u>Robin Feeding Fledgling</u>		

<sup>1</sup>NAAMP/ Beaufort Sky Codes

- 0 = clear (no cloud cover)
- 1 = partly cloudy (scattered or broken) or variable
- 2 = cloudy or overcast
- 3 = sandstorm, duststorm or blowing snow
- 4 = fog, smoke, thick dust, or haze

- 5 = drizzle or light rain
- 6 = rain
- 7 = snow or snow/rain mix
- 8 = showers
- 9 = thunderstorms

<sup>2</sup> Beaufort Wind Scale

- 0 = calm, smoke rises vertically (0-2km/hr)
- 1 = Light air movement, smoke drifts (3-5)
- 2 = Slight breeze, wind felt on face; leaves rustle (6-11)
- 3 = Gentle breeze, leaves & twigs in constant motion (12-19)

- 4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);
- 5 = Fresh breeze, small trees begin to sway (31-39)
- 6 = Strong breeze, large branches in motion (40-50)



## Turtle Nesting Survey

Project Name: Smell's Hollow Survey Location: \_\_\_\_\_  
 Project Number: \_\_\_\_\_ Easting: \_\_\_\_\_  
 Site Surveyor: MM Northing: \_\_\_\_\_  
 Second Surveyor: NP  
 Date: June 24, 2020  
 Air Temp (°C): \_\_\_\_\_ Start: 16.9 Survey Time Start: 10:37 Cloud Cover<sup>1</sup>: 90  
 End: 22.6 (24 hour) End: 12:56 Wind Scale<sup>2</sup>: 6  
 Search Duration: \_\_\_\_\_ Wetland Name: \_\_\_\_\_ Precipitation: >1mm

### Turtle Observations

UTM (Easting/Northing)	Time (24 hr)	Common Name	Count	Behaviour	Notes/Comments
<u>43.7504119</u> <u>43.7504119</u> <u>-79.8095571</u>	<u>2:04</u>	<u>unknown</u>	<u>1</u>		<u>multiple shell fragment</u>

GPS coordinates, including accuracy: If multiple individuals of the same species are observed and are more than ten m from each other, separate GPS coordinates should be submitted for each individual. If the GPS location is taken from a shoreline and not the location of the turtle, include additional information to allow the point to be mapped accurately (e.g., turtle was 20 m NW of GPS location)

### Incidental Observations of Other Species or Important Habitat Features

Name of Feature/Species	Count	Notes/Comments

<sup>1</sup> NAAMP/ Beaufort Sky Codes  
 0 = clear (no cloud cover)  
 1 = partly cloudy (scattered or broken) or variable  
 2 = cloudy or overcast  
 3 = sandstorm, duststorm or blowing snow  
 4 = fog, smoke, thick dust, or haze

5 = drizzle or light rain  
 6 = rain  
 7 = snow or snow/rain mix  
 8 = showers  
 9 = thunderstorms

<sup>2</sup> Beaufort Wind Scale  
 0 = calm, smoke rises vertically (0-2km/hr)  
 1 = Light air movement, smoke drifts (3-5)  
 2 = Slight breeze, wind felt on face; leaves rustle (6-11)  
 3 = Gentle breeze, leaves & twigs in constant motion (12-19)

4 = Moderate breeze, small branches moving, raises dust & loose paper (20-30);  
 5 = Fresh breeze, small trees begin to sway (31-39)  
 6 = Strong breeze, large branches in motion (40-50)

### Turtle Nesting Survey

Project Name: <u>Snells Hollow</u>		Survey Location	
Project Number: _____	Easting: _____		
Site Surveyor: <u>MM</u>	Northing: _____		
Second Surveyor: _____	Date: <u>June 30, 2020</u>		
Air Temp (°C):	Start: <u>31.2</u>	Survey Time	Start: <u>18:17</u>
	End: <u>27.8</u>	(24 hour)	End: <u>20:30</u>
Search Duration: _____	Wetland Name: _____	Cloud Cover <sup>1</sup> : <u>30</u>	Wind Scale <sup>2</sup> : _____
		Precipitation: <u>0</u>	

#### Turtle Observations

UTM (Easting/Northing)	Time (24 hr)	Common Name	Count	Behaviour	Notes/Comments
<u>43.7502170 -79.8095575</u>	<u>19:35</u>	<u>MPTU</u>	<u>6 shells</u>		<u>empty nest -&gt; successful?</u>
<u>43.7501 -79.8100</u>	<u>19:37</u>	<u>MPTU</u>	<u>shell present</u>		<u>an empty nest</u>
<u>43.7499 -79.8098</u>	<u>19:39</u>	<u>MPTU</u>	<u>shells present</u>		<u>empty nest</u>
<u>large pond</u>	<u>19:45</u>	<u>SNTU</u>	<u>1</u>	<u>head poking above pond</u>	

GPS coordinates, including accuracy: If multiple individuals of the same species are observed and are more than ten m from each other, separate GPS coordinates should be submitted for each individual. If the GPS location is taken from a shoreline and not the location of the turtle, include additional information to allow the point to be mapped accurately (e.g., turtle was 20 m NW of GPS location)

#### Incidental Observations of Other Species or Important Habitat Features

Name of Feature/Species	Count	Notes/Comments
<u>raccoon road kill</u>	<u>1</u>	
<u>Frog road kill</u>	<u>1</u>	
		<u>Other potential nest sites - scrapings not definitive</u>

<sup>1</sup>NAAMP/ Beaufort Sky Codes

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