

APPENDIX C

C2: Field Notes



Entire Site

Orchard grass	American Penstemon	Leath Aster	false Solomon's seal
grey goldenrod	Senecio sp. (✓)	Salix eriocephala	white trillium
wild carrot	black medic	White Birch	leatherwood
Timothy	St. Johns wort	White Sweet clover	Driftford Pink
Chicory	Poa pratensis	violet sp.	grass-leaved goldenrod
Fragrant Sumac	early goldenrod	Canada Goldenrod	Spreading dogbane
Hawkweed sp.	black bullrush	Specklet Alder	path rush
Goatsbeard	Trembling Aspen	Joe pye weed	Marginal wood fern
Common Yarrow	eleocharis sp.	grey dogwood	Carex gracillima
wild Strawberry	bur oak	spotted jewelweed	Bottlebrush grass
mullein	haffalo berry	spotted water hemoak	Green-leaved Plantain
prairie smoke	heal-all	hairy willowherb	Fly honeysuckle
mossy stonecrop	Balsam fir	Sugar maple	Polypody fern
Silvery ringweed	Side-flowering Aster	wild Sarsaparilla	Fragile fern
Ox eye daisy	Smother ry	bracken fern	Sweet coltsfoot
Poverty oatgrass	Tall agrimony	Birds foot trefoil	Battosnake fern
curly dock	wild Geranium	tall buttercup	beach drops
Rib grass	hellaborain	white pine	bunchberry
Wild Redraspberry	Carex eburnea	Poa compressa	White Lettuce
Field ringweed	field horetail	red oak	Smooth Broom
Common juncifol	White Ash	Large-leaf Aster	Orange hawkweed
red clover	White spruce	Common speedwell	Twin flower
red osier dogwood	water horhound	Daisy fleckle	Ribes tristis
Common milkweed	bone set	Ironweed	Norther Newburn
		Canada mayflower	Hops lover

Project No.	04 3318
Project Name	Northland Power Manitowish
Field Identifier	field notes
Signature	gs.

rough-stemmed goldenrod	Smooth Grassweedy	Common Apple	barren strawberry
Tall fescue	White Elm	herb robert	bulblet fern
redtop	Carex retrosa	bull thistle	Coriander sp
Black Snake root	Sium Sium	Carex vulpinoidea	poorly everlasting
Indian pipe	Bulbiferous Water hound	Whisk grass	basswood
Sensitive fern	Carex tuckermanni	Barn yard grass	Indian Paint Brush
Pale common grass	Tamarack	Quack grass	Pine saw
Wool grass	Mittlenwort	water plantain	Common Plantain
Slender Willow	Sax flower	pear	nippewort
Baby's Willow	red maple	Yellow sweat clover	Sweet scented bedstraw
Blue Flag Iris	hairy Solomon seal	Elaeagnus	Yellow bedstraw
Dwarf Raspberry	Baccharis	bladder campion	Water horehound
Pyrola sp.	starry false Solomon seal	Hawthorn sp.	Catnip
White fl. wood aster	red bareberry	large tooth Aspen	Fireweed
Arrow leaved Aster	Oak fern	Sheep Sorrel	red ash
Carex tenax	Canada Thistle	Rough ground squirrel	Sharp lobed hepatica
Spinulose wood aster	Creeping juniper	Amelanchier humilis	Glandular horse sorrel
Maple leaf Viburnum	Staghorn Sumac	wild columbine	mountain ash (S. decora)
poison ivy	Choke cherry	Carex lacustris	Canada milkvetch (A. neobain)
rosa sp.	Tansy	March Marigold	Canada blue grass
Common clambush	Field Chirweed	Broad-leaf cattail	Mad dog skull cap
Burdock	cow Vetch	will mint	Mild waterpiper
Rough leaf Dogwood	Alfalfa	passif willow	Smooth Aster
Black Ash	White clover	Marsh bedstraw	fringed Blue A.
Hairy woodbine	Common Ragweed	Ribes tristis	upland wh.

Turbine 21 10x10m quadrat

Turbine 26 10m x 10m

Sugar Maple	Sugar Maple	Balsam Fir	Balsam Fir & E. White
Leatherwood	Deciduous Forest	E. White Cedar	Cedar Coniferous forest
Common speedwell		White Spruce	on rocky limestone
heal-all		Broken Fern	Nidge
Balsam-fir		White Ash	
Large leaf Aster		Green-leaved Rattlesnake plantain	
Tall buttercup		Leatherwood	
Yellow-crown		Large leaf Aster	
Round-lobed hepatic		Wild Sarsaparilla	
Canada mayflower		Tall (agrimony)	
Violet sp.		Trembling Aspen	
Ironwood		Canada May-Flower	
goodweed (✓)		Sugar Maple	
Aster leaf? (✓)		bunchberry	
Pennsylvania Sedge		Sweet (H) foot	
Canada blue grass		Carex -burnea	
black snake		Pennsylvania Sedge	
		Balsam Poplar (✓)	
		Lactuca biennis	
		Violet sp.	
		buffalo berry	
		white birch	

Turbine 18 10x10m quadrat

Turbine 19 10x10m quadrat

Buckberry	Ribes americana	Sugar Maple	Sugar Maple
Flat-top Aster	Canada goldenrod	Ironwood	Deciduous Forest
Trembling Aspen	Stary false common seal	Balsam Fir	ground layer sparse
Tall Agrimony		Kullaboraine	large tree ~ 35cm DBH
Balsam Fir	Deciduous Swamp	Violet sp.	
Side-flowering Aster	in Trembling Aspen in	White Ash	
American Elm	Canopy and Balsam Fir	Round-leaved haptica	
Black Ash	in Understorey	Common spearhead	
Beaked Hazel	Standing water in some	featherwood	
wild Strawberry	spots	rattlesnake fern	
bedstraw		red bone berry	
Spinulos Wood Fern			
dwarf Raspberry			
Joe py weed			
Red Oaxer dogwood			
Mitrewort			
twine flower			
buckweed			
Balsam poplar			
wild sarsaparilla			
leaf hall			
Kullaboraine			
Violet sp.			
Arrow-Kanva Aster			
Large-leaf Aster			

Turbine 1 10x10m quadrat

Red clover			
Rose sp.			
White clover			
Timothy			
Poverty grass			
Poverty oat grass			
Agropyron			
Yarrow			
Curly dock			
Black medic			
Aster sp.			
Weed grass (✓)			

Turbine 3 10x10m quadrat

Timothy			
Red clover			Same as 1
Yarrow			
Red top			
Poverty oat grass			
Heath Aster			

Turbine 2 10x10m quadrat

Red clover			Same as 1
Timothy			
Red top			
Poverty oat grass			
Alfalfa			
White clover			
Yarrow			
Common Ragweed			
Side flower N. l.			
Wild strawberry			
Black medic			

Turbine 3 G

Common juniper			Scrubby pastureland
Wild strawberry			with bur oak and
Ox-eye daisy			Common juniper
Hawthorn			f. hawthorn
Arrow-leaved Aster			
Yarrow			plains hawthorn
Curly dock			
Sheep sorrel			
Poverty oat grass			
Rough leaved ragwort			
American Elm			
Leafy			
Ribgrass			
Timothy			
Red clover			
Snowberry			
Bur oak			

Turbine 38 10m x 10m quadrat

Turbine 28 10m x 10m quadrat

Black red clover	Alvar like community	Ribes American	Cedar Swamp
Field ragwort	with Bur oak, common	Wild Strawberry	Black Ash
prairie smoke	Juniper. Much	Buffalo berry	Trembling Aspen
Silver cinquefoil	Exposed soil	Willabotain	
Sassafras berry		redosier dogwood	Trembling Aspen
Yarrow		E. White Cedar	wild Sarsaparilla
poverty cat grass		Field horsetail	beaked hazel
leaf all		red clover	leaf all
Arrowweed Aster		Sweet Coltsfoot	Rattlesnake phlox (green based)
St. Johns wort		Yarrow	Poison Ivy
Fragrant Sunflower		Large leaf Aster	
wild columbine		Canada Mayflower	
helleborin		Ribes frict	
Wild strawberry		dwarf Raspberry	
snowberry		bur oak	
thimble weed		black Ash	
poverty cat grass		black snakeroot	
black medic		Rattlesnake fern	
American Penstemon		Balsam poplar	
		Violet sp.	
		Side flowering Aster	
		White spruce	
		Rosa sp.	
		White lettuce	
		Winniflow	

Turbine 22

Turbine 22

Mixed Swamp

		Mixed Forest w				Mixed Swamp	
Balsam Fir		Trametes Aspen	Balsam Fir	Red-osier dogwood		E. White Cedar	
Large-leaf Aspen		E White Cedar	White Elm	bugleweed		Balsam Fir	
hellabodaine				pussy willow		white birch	
Side-flowering Aster				E. White Cedar		Speckled Alder	
Carex elvarnea				Field horsetail			
buffalo berry				Sensitive-fern			
sugar maple				dwarf (asplund)			
broken Fern				Rose sp.			
black modic				White Birch			
Rose Sp.				Speckled Alder			
Round-lobed hepatic				Balsam Fir			
leather wood				reed canary grass			
but oak				Sweet coltsfoot			
Wild Sarsaparilla				wild strawberry			
rattlesnake plantain (green leaved)				White Spruce			
Carex sp.				Saskatoon berry			
bottlebrush grass				Arens sp.			
Viola sp.				wild carrot			
				hellabodaine			
				bunch berry			
				buffalo berry			
				Common dandelion			
				balsam poplar			
				pyrola sp.			
				black ash			

Turbine 33 10m x 10m Quadrat

		Mixed Forest	
Balsam Fir		W bur Oak, balsam Fir	
Sugar Maple		white pine, ironwood	
bur oak			
white ash			
leatherwood			
hellaborain			
round-leaved lonicera	green-leaved rattlesnake plantain		
Arrowleaf Aster	Canada Mayflower		
bottle brush grass			
Violet sp.			
Ironwood			
White Pine			
large leaf Aster			
E. White Cedar			
Black Snakeroot			
buffalo berry			
basewood			
Common dandelion			
Yarrow			
Snowberry			
Wild strawberry			
Pink sax			
Red Burreberry			
red clover			

Turbine 37 10m x 10m quadrat

		Mixed Forest	
Balsam Fir			
Trembling Aspen			
E. White Cedar			
Buffalo berry			
twinklaxer			
large leaf Aster			
Wild Sarsaparilla			
mountain Ash			
Canada mayflower			
Black snakeroot			
Dwarf Raspberry			
Sugar Maple			
green-leaved rattlesnake plantain			
bur oak			
Poison Ivy			
Vetch			
rattlesnake fern			
hellaborain			
Rose sp.			
white ash			

Turbine 35 10m x 10m quadrat

Turbine 41 10x10m

Sugar Maple

Trunking Aspen	Paper Birch	Deciduous Forest	Basswood		Deciduous Forest
Sugar Maple	Sugar Maple, White Birch		Sugar Maple		~20m from
White Birch			large tooth Aspen		open field
Ironwood			Ironwood		
Leatherwood			Violet		
White ash			Brake Fern		
Violet sp.			Black Snakeroot		
large leaf Aster			White Ash		
Sharp leaved harralica			Parrot eburada		
Fragment Sunna			E. white Cedar		
Canada mayapple			Beaked hazel		
Brake fern			Wild Gay Sassailla		
Great rattlesnake Plantain			hellaborain		
Black Snakeroot			Greenleaf rattlesnake plantain		
beaked hazel			Rattlesnake fern		
hellaborain			Stary false Solomon Seal		
Showerberry			leatherwood		
pyrola			Canada mayflower		
Stary false Solomon's Seal					
Red baneberry					
Lonicera dioica					
downy arrowwood					

Turbine 40 10m x 10m quadrat

Turbine 7 10m x 10m quadrat

Balsam Fir		Balsam Fir mixed Forest
Sugar Maple		w Sugar Maple, Poplar, Ash
White Ash		
Trembling Ash		
E. White Cedar		
hellaboraine		
Carex ebernam		
Canada mayflower		
Violet		
Black Spatteroot		
rattlesnake fern		
Green-leaf patchspoke plantain		
Ironwood		
Maple leaf viburnum		

Timothy		Active pastureland
Redtop		Moo!
Red clover		
Poverty oat grass		
black milk		
White clover		
prairie smoke		
wild carrot		
hawkweed sp.		
curly dock		
Rose sp.		
Yarrow		
Uncus Dudleyi		
Carex tuncera		

Turbine 5 10x10m quadrat

Timothy		Active pasture Land
poverty oat grass		
Red clover		Rose sp
Aster sp.		
prairie smoke		
hawkweed sp.		
dandelion		
black Med. V		
White clover		

turbine 13 10m x 10m quadrat

Sugar Maple		Young Sugar Maple
Latterwood		Deciduous Forest
white Ash		~ 30cm DBH (10% freq)
Violet sp.		sparse ground cover
Tall buttercup		
Carex gracillivra		
bur oak		
Side-flowering Aster		
Ironwood		
hellaboraine		

Turbine 10 10m x 10m quadrat

Turbine 12 10m x 10m quadrat

Sugar Maple	Sugar Maple	Deciduous Forest
Ironwood	Forest	
large-leaf Ash	~ 30-35 (1st) large trees	
White Ash		
Choke Cherry	~ 20 meters from	
helleborin	field edge	
Carex texana		
Bottle brush grass		
Plantain Sedge		
gravel Sedge		
Violet sp.		
White lettuce		

Sugar Maple	Sugar Maple	Deciduous Forest
leatherwood	leatherwood	(young) large trees ~ 35-30 cm DBH
Violet sp.	Violet sp.	
helleborin	helleborin	
bur oak	bur oak	
Side-flowering aster	Side-flowering aster	
poorly cut grass	poorly cut grass	
tall buttercup	tall buttercup	
Carex sp.	Carex sp.	
white Spruce	white Spruce	

Turbine 9 10m x 10m quadrat

Turbine 9 10m x 10m quadrat

Ribes cynosbati		
Trillium sp.		
Canada Mayflower		
False Solomon seal		

Balsam Poplar	Balsam Fir	Balsam Fir, Balsam Poplar Mixed Swamp
Balsam Fir	Balsam Fir	
White Spruce	White Spruce	
Dwarf raspberry	Dwarf raspberry	Rattlesnake Fern

Turbine 11 Same as 10

Turbine 9 10m x 10m quadrat

Sugar Maple	Same as 10	
Violet	Same as 10	
Red Robert	Same as 10	
White Ash Ironwood	Same as 10	
Bottle brush grass	Same as 10	
Carex platyphylla	Same as 10	
Aster	Same as 10	

helleborin	helleborin	Canada Mayflower
Mountain Maple	Mountain Maple	leatherwood
Ox Eye	Ox Eye	White Birch
Wild Sarsaparilla	Wild Sarsaparilla	Violet sp.
Spirula Wood Fern	Spirula Wood Fern	Lonicera Canadensis
lady fern	lady fern	
midway wort	midway wort	
black Ash	black Ash	
White Elm	White Elm	

Turbine 30 10m x 10m quadrat
 Old Pasture

Poa pratensis			
Yarrow			
Hawkweed sp			
Wild Strawberry			
Ox-eye daisy			
black medick			
Red Clover			
dandelion			
Chicory			
Canda Thistle			

Turbine 31 10m x 10m quadrat
 E. White Cedar

Cedar	Swamp		
poverty oat grass			
White sp. 10			
grey goldenrod			
wild strawberry			
march herb			
red ox eye dogwood			
bear berry			
Carex ebornea			
Trunbling Aspen			
Violet sp.			
Bobb's willow			
Flat-top Aster			

Turbine 32 10m x 10m quadrat

Wild Strawberry			
hawkweed			
Yarrow			
Poa pratensis			
poverty oat grass			
ox-eye daisy			
hawthorn sp			
hindy's Aster			
wild carrot			
grey goldenrod			
Red clover			

Turbine 34 10m x 10m quadrat

Willow Mineral			
Thicket Swamp			
Indian paintbrush			
bobb's willow			
Water hickory			
Russy willow			
Panicum sp.			
Poa pratensis			
Juncus sp.			
Violet sp.			
wild Strawberry			
Side-flowering Aster			
goldenrod sp.			
Red ox eye dogwood			

Houghton's Goldenrod Survey

~~GPS~~ Houghton's Goldenrod Survey
 South side of rd: 9:15 - 11:00
 Transmission line to go on south side of road.

GPS 615 - point marked on south side of road at fence line.

Photo #'s 7932-7937-7942

Plants are located in SW corner of Harbor View Rd entrance way to 100m radio station camp ground.

Plants are located 5-10m south of fence line. ~ 20 patches of Rd. patch ~ 10m wide.

45-50 plants near small white hut on large rocks.

GPS 616

Plants

7943-7947, 7961-67

13 stems for very patchy low veg

2-4m south of fence

15m south of road

GPS 617

Looks like a patch of Houghton's Goldenrod well south of road estimated 50-70m south of road in rocky area - difficult to confirm from distance but will be very from ground so not likely to be disturbed.

Plants 7948-7951

hard to estimate #s from distance patch point in of meadow ~ 50m wide approx. Name scattered Houghton's Goldenrod.

GPS 618

Photos - 79229, 79231
 7952 - 7956

6 plants, 10-15 m south of fence
 line 20-25 m south of road
 very small group.

- South side of road scanned from
 fence line using binoculars
- fence line ~ 10m south of road
- area covered thoroughly south of fence
 ~ 40m, good visibility due to low
 vegetation level. - No. H. Goldenrod found N of
 fence.

North side of Harbor line
 11:00 - 12:10

Harbor - ..

GPS 619 - blueberry stems sprays (in thorn?)
 photos 7969 - 7972
 ~ 5 m N of road ~ 11 plants.

GPS 620 - point marked on road

appears to be a patch of
 11' H. Goldenrod ~ 40 m N of
 road. On northern side of a
 patch of white cedar.
 patch of golden rod appears to be
 ~ 30m wide

- Plants numerous - 100+
- cannot count more than 10 from this
 distance
- photos - 7973 - 7979
- GPS'd track around patch
- photos 7980 - 7990

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Turbine 24 and access Rd
(Route 7 GPS)

13:00 - 13:46

photo 7991 - Access Rd./Route 7 looking West
from GPS 621

No Houghton's Goldenrod observed
on or near Access Road or
T24 site.

Turbines 16 & 14 & Access Rd
(Route 6)

13:55 - 14:30

photo 7992 taken from T16 looking S
photo 7993 T44 looking South.

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T9 & Access Rd (Route 21)

15:05 - 15:20

photo 7994 - T9 looking West
No Houghton's Goldenrod observed

T4 & Access Rd. (Route 20)

15:25 - 15:35

photo 7995 - T4 looking W
No Houghton's Goldenrod observed

Morphitz Side Road, T1, T5, T11
and access roads. (Routes 18 & 19)
Monarch-⁺

15:50 - 16:50

photo 7996 - T1 looking South
7997 - T5 looking East
7998 - T10 looking South

T13, 37 02 + Access Roads
 16:50 - 18:20 at Transmission Line

Photo 7999 - T13 Looking North
 8000 - T37 Looking North
 8001 T37 Looking South
 8002 - T2 Looking South

No Houghtons Goldenrod

Weather

Intermittent rain 100% cloud cover
 in AM

Most of day
 - cloud cover ~ 75%
 - temp 20-25°C
 wind S-1-2

8:30 - 8:40 T15⁶ Access Rd
 (Photo 205)

No Houghtons Goldenrod observed

Access Road to T13 (Gate 17)
 (Gate 17)

No Houghtons Goldenrod observed

8:45 - 9:20

Photo 8003 - Access rd looking N from
 Greenish Rd.

Access Rd to T19 (Gate 8)

9:25 - 9:50

Photo 8004 - Access Rd looking S, south
 of Greenish Rd.

No Houghtons Goldenrod observed.

Maplehurst Sideload E of McLeans
 Mtn Road

10:15 - 30

Plots 8005 - pasture N side Maple S.R.
 8006 " " S " " "

No Houghton's Golden rod observed

Weather

Sunny - cloud cover 25%

T temp - 20°C
 Wind S
 no precip.

JOB NP - McClain's Mtn
 DATE Dec 3, 2010 PAGE 1 of 1

JOB
 DATE

Goat Island ELC

Alvar Habitat

Tree	A	Shrubs	A
BETULAP	O	JUNICOM	O
PINUSSTR	R	sweet gale	O
THUJOC	O	Serviceberry spp.	R
JACK PINE	R	Calm St. John's Wort	R
		Shrubby Cinquefoil	?

HERBS A

grasses	R	D	
Solidago sp.	O		not flat top
Mullen	R	R	
Scirpus spp	O		
Evening primrose	R		
Solidago spp	R		possible Houghton's
Indian hemp	R		

(# of plants)

Goldenrod	Pb. 140 (8); 141 (1); 142 (2)
Goldenrod	Wren (1) = 0.014695 ha
"	" (2) = 0.434182 ha

Mixed Forest - Cw, Treb. Aspen; Pw, Bw

Ash Swamp Incursion - FIR/ASPEN

PARTY CHIEF D. Restivo; R. Baxter

WEATHER Partly Cloudy; Wind - 1; Temp - -2°C;
 Cloud - 80% - Precipitation - none

PARTY
 WEATH

Turbine 17

Herpetile Habitat Search

Massasauga Hibernacula

Time: ~~11:40~~ = 11:14 - 13:30

Temperature	start 15°C	Finish 20°C
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Wind Beaufort	start 1	finish 3
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Cloud cover - 75%

photo #
 #1099 }
 GPS # 498 } Small bedrock outcrop / hole /
 upturned roots (photographs) ~ 10m from T17

General Habitat notes for turbine 17

Forest in immediate area of turbine is mixed upland with cedar, spruce

balsam poplar, Sugar maple

Eastward from turbine site forest becomes more upland & dominated by deciduous species

To the west of the turbine site forest becomes more lowland dominated by cedar & spruce

- soil is moist in lowland area but not wet and no standing water is observed within 100m of turbine site. - mapped edge of low area with GPS

Within 100m of turbine site there is very little exposed rock and any access to below ground is limited to over-turned trees

- area of turbine appears to have limited suitability as a potential massasauga hibernacula site

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- tree cover and canopy closure both dense.

- ~~no~~ large ^{canopy} openings or areas of exposed ^{back} to provide bushy vegetation habitat.

- no snakes observed

- Area covered was 100m from turbine in all di

Wildlife observations - (from car to tree
back)

SALR - "

AMLR - "

CORA - "

BTNW - "

RUSR - "

WESP - "

SOSP - "

NLFR - "

NOFL - "

Herp SAR survey

Turbine 17 to Access Road Area

Access Road is "Road 24"

Access Road to Turbine 21 is "Road 25"

T17 area 12:30 - 14:45 searched

Birds	
SCTA -	S
OVEN -	S
BINW -	S
AMCO -	S
YBSA -	dm
YBSA	
RUGR -	dm

SPPE -

Circular area approximately 100m in radius from T17 location was searched for approximately 2 hours.

No herp SAR observed during search.

- Deepest hole/crack at GPS # 499 is approximately 2.5 feet at its deepest point most of hole is shallower than this

- crack is approximately 2 feet long

- other depressions at GPS # 499 very shallow to exposed, less than 30 cm deep

- blowdown tree located at T17 has a hole at base approximately 2 feet deep

T17 Access Rd Photographs 14:45 - 16:00

7361 - south arm midpoint.

GPS # 541 - photos 7362 - 7364

- crack approximately 3 feet at deepest point #

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GPS 541 - crack #2 also
approx 3 ft deep
photo # 7365, 7366

GPS #542 - photos 7367, 7368

hole at base of small tree
approximately 2 feet deep.

Photo 7369 long arm of access road
looking north ~20m N of corner.

Photo 7370 access rd. long arm, looking
North, North edge of track area.

Photo 7371 access road near Greenbush Rd
looking south through willow thicket.

Photo 7372 access road near Greenbush
Rd looking N through field to weebush.

Weather: Temp 25
W-62 Cloud cov 60% no precip

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14:45 - 16:00

Access Road to Turbine 2

Access road cuts through
designated wetland a 120m
buffer zone

Main branch (North-South)
uses existing side road 20
which cuts through a
swamp thicket.

Small branch - East to West
South of wetland and buffer

Photos 7379 & 7380 show
swamp thicket & Side road 20
SWTH is located on East side
Side road 20

Photo 7381 shows forested sw
located to W of Side road 20

No. McLenas Mtn. - Herp S.A.R
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No. McLenas Mtn. - Herp S.A.R
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Photos 7383, 7382
GPS 544

rock piles located N of thicket
swamp approximately 10 m from
thicket & 15 m from side road
20
piles approximately 2.5 x 1.5 meters
- potential gestation sites

GPS 545

Photos 7384

Rock pile upland from wet shrub thicket
approx 4 x 3 m in diameter.

GPS 546

Photos 7385, 7386

Table rock approx 4 x 2 m surface area
one small hole - potential gestation site
upland from wet shrubs

GPS 547

Photo 7387 rock pile 5 x 3 m
down of wet shrub thicket

GPS 548

Photo 7388

rock pile 4 x 4 m
upland from wet shrubs
~ 40 m from shrubs

Weather

Temp = 20°C - Wind - B2

Cloud 50% no precip

Wetland area

Small wet willow thicket N of
swamp thicket - wet soil, little
no standing water photo # 73

Swamp thicket has standing water
beaver activity

GPS 482 - tributary dry
photos 7693, 7694

Butternut (GPS 483)
pics - 7695, 96, 97

3 stems ~ 30-35 cm dbh

Shows signs of canker disease
50% crown cover, several large
branches are dead.

~~Turning 17 area to access rd.~~

GPS 5834 - crack approx
90 cm deep to 90 cm long
10 cm wide.
photos - 7705, 7706, 7707

Time: 12:45 - 2:00 mapped more
habitat features

Weather Temp 25 Wind B2
no precip, 20% cloud

Wildlife
P. W. O.
Y. B. S. A.
C. H. S. P.

GPS #584 - rockpile, no obvious cracks
in ground
photo # 7709

GPS 585 - rock pile
photo # 7710
no obvious cracks into ground

GPS 586 - rock pile, no obvious
cracks into ground
photo # 7711

GPS 587 - rock pile, no obvious
cracks into ground
photo # 7712

RSHA called again 13:30

11:50 - 12:56

Weather Cloud 100%, light rain, Temp 25
wind B2

Access Road to T21

GPS 588 Rockpile
photo 7713

GPS 589 Rockpile
photo 7714

Photo 7715 - Access Road to T21
looking east from 20 sidewalk

GPS 590 - Rockpile
photo 7716

GPS 591 - Rockpile
photo 7717

No
Date

McLeans Natn Herp SAR
July 8 2010

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No
Date

Page

		WV	
CCFL	KEVI	AMRE	
NOFL	NOVA	WTSP	
GTPR	COYE		
CEWV	SLSP		
BLJA	BCCIT		

Project No.	043318
Project Name	Mantowlin Island / Northland Power Line
File Identifier	Corr
Signature	<i>[Signature]</i>

No
 Date
 Northland Power Inc.
 JAN 25 107
 Page 1 of 1

Project #: 043328

Winter Bird Survey

Weather : Sunny to occasional cloudy
 @ 15:00 Cloud: 1/10
 Wind: 3
 Temp: -18°C (-27°C w wind chill)
 Precipitation: none
 Survey time: 15:00 - 17:30
 (2.5 hrs)

Bird Obs.

~~CORA~~ +++
 BCLH ||||
 EUST ||

Comments: Waters around Mantowlin Island are frozen (closed to waterfowl)

No. Northland Power Inc.
 Date Jan 26/07 Page 1 of 1

1 of 1

43320

Project #: 043328

Winter Bird Survey

part cloudy

Weather: Cloud: 10/10

@ 07:50 Wind: 2

-13:50 Temp: -18°C

part w
(chill)

(6 hrs) Precipitation: none

Bird Obs.

50

5 hrs)

CORA ~~HHHH~~ IIII

PIWO II

SNBU (30) (3) (18) (8)

BCC# IIII (6)

WBNU (3)

HOFI HHH

BRUGR II

low fowl in

at to

No Manitowlin Island - Northland Power
Date Feb. 20, 07 Page 1 of 1

No
Date

Project #: 04 3318

Winter Bird Survey (14:00 - 18:00)
- 4 hrs -

Weather: Temp = -6°C

@ 14:00

Wind - 4

Cloud - 2/10

Precipitation - none.

@

Bird Obs.

COFA IIII

RUGR I

RBNU IIII

BCH IIII

PUFI I

PIWO I

Comments - Bay frozen; no
waterfowl or waterbirds

- porcupine observed
south of Green Bush Rd.

1 Power
je. 1 of 1

No. Manitadin Island - Northland Power
Date Feb 21/07 Page 1 of 1

Project #: 043318

4:00 - 18:00) Winter Bird Survey (07:30 - 13:30)
- 4 hrs - - 6 hrs -

C
Weather: Temp. - -9°C
@ 07:30 Wind - 3
Cloud - 10/10
Precipitation - none

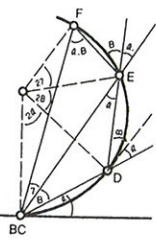
Bird Obs.

CORA	###	###	###	###
WBNU	###			
BCEH	###	###	###	###
PIWO	###			
RBNV	###	###		
BLJA	##			
HAWO	1			
PUFI	1			

no
obs
observed
Bird Rd.

CHORD LENGTHS FOR LAYING OUT
 CURVE IA AND II

P.I. STA.	+	CURVE N°
$\Delta =$	° ' "	
R =	m	
CONSECUTIVE chord length		CURVE DATA
		Az (or Bear) = ° ' "
		$\Delta =$ ° ' "
		R = m
		T = m
		L = m
		E = m
		T = R tan $\Delta/2$
		E = R exsec $\Delta/2$
		L = RA $\pi/180$
		} or read off Table II with Δ as table entry
P.I. STA.	+	
- T	-	
B.C.	+	
+ L	+	
E.C.	+	
Def. $\chi = \frac{90}{\pi} \frac{\ell}{R}$		} or read off Table I or Table II with R as table entry
= arcsin $\left(\frac{C}{2R}\right)$		
Chord = $2R \sin \left(\frac{90}{\pi} \frac{\ell}{R}\right)$		



Winter Bird Survey. (13:30 - 18:30)
 - 5 hrs -

Weather @ 14:30: Temp - -3°C
 Wind - 3
 Cloud - 1/10
 Precipitation - none.

Bird Obs

- CORA IIII IIII IIII II
- AMCR IIII IIII
- BCCH IIII IIII IIII
- ERST I
- RTHA I
- HAWO IIII
- RBNU I
- PIWO I
- RWBL I

Weather @ 21:00
 Temp - -6°C Cloud 2/10
 Wind - 1 Precip - none.

Nocturnal Owl Survey (21:00 - 21:45)
 2 survey stations.

Stn 1 - Columbra Mtn. Rd.
 - no observations

Stn 2 - Green Bush Rd
 - no observations.

No NORTHLAND POWER - MANITOULIN
Date March 16, 1977 Page 1 of 1

No
Date

Winter Bird Survey (07:45 - 12:15)
- 4.5 hrs -

Weather: Temp -15°C
Wind - 3-4
Cloud - 3/10
Precipitation - none.

Bird Obs.

CORA +++ ~~||||~~ ~~||||~~ ~~||||~~ |

EUST +++ ||

AMCR |||

BLJA +++ ||

BCCH ~~+++~~ ~~||||~~ ~~||||~~ ~~||||~~ |

RBGU |

WBNU |

RBNU ||

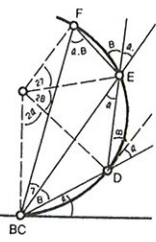
PIWO |

DOWD |

HAWO |

CHORD LENGTHS FOR LAYING OUT
 CURVE IA AND II

P.I. STA.	+	CURVE N°
$\Delta =$	° ' "	
R =	m	
CONSECUTIVE chord length		CURVE DATA
		Az (or Bear) = ° ' "
		$\Delta =$ ° ' "
		R = m
		T = m
		L = m
		E = m
		T = R tan $\Delta/2$
		E = R exsec $\Delta/2$
		L = R $\Delta \pi/180$
		or read off Table II with Δ as table entry
P.I. STA.	+	
- T	-	
B.C.	+	
+ L	+	
E.C.	+	
Def. $\chi = \frac{90}{\pi} \frac{\ell}{R}$		or read off Table I or Table II with R as table entry
= arcsin $\left(\frac{C}{2R} \right)$		
Chord = $2R \sin \left(\frac{90}{\pi} \frac{\ell}{R} \right)$		



Winter Bird Survey. (13:30 - 18:30)
 - 5 hrs -

Weather @ 14:30: Temp - -3°C
 Wind - 3
 Cloud - 1/10
 Precipitation - none.

Bird Obs

- CORA IIII IIII IIII II
- AMCR IIII IIII
- BCCH IIII IIII IIII
- FAST I
- RTHA I
- HAWO IIII
- RBNH I
- PIWO I
- RWBL I

Weather @ 21:00
 Temp - -6°C Cloud 2/10
 Wind - 1 Precip - none.

Nocturnal Owl Survey (21:00 - 21:45)
 2 survey stations.

- Stn 1 - Columbra Mtn. Rd.
 - no observations
- Stn 2 - Green Bush Rd
 - no observations.

No. NORHLAND POWER - MANITOULIN
Date March 16, 1977 Page 1 of 1

No.
Date

Winter Bird Survey (07:45 - 12:15)
- 4.5 hrs -

Weather: Temp -15°C
Wind - 3-4
Cloud - 3/10
Precipitation - none.

Bird Obs.

CORA +++ ~~||||~~ ~~||||~~ ~~||||~~ |

EUST +++ ||

AMCR |||

BLJA +++ ||

BCCH ~~+++~~ ~~||||~~ ~~||||~~ ~~||||~~ |

RBGU |

WBNU |

RBNU ||

PIWO |

DOWD |

HAWO |

No. Northland Power - Manitoulin Island
 Date June 21/07 Page 1 of 4

Project #: 043318

Breeding Bird Survey.

Weather @ 05:30

Temp - 12°C

Wind - 5

Cloud - 8/10

Precipitation - none.

WT 105:30

ALFL ' S AMCR ::

EUST :: X SAVS : S

AMRO : X CCSP ' S

INBU ' S PIWO " X

Stn ① (06:15 - 06:25) pasture

CCSP ' S SOSP ' S

SAVS : S AMCR :: X

AMRO ' S NOFA ' X

WT

SAVS :: S AMCR ::

CORA ' SOSP ' S

wet/young

Stn ② (06:37 - 06:47) mixed forest

BGNW ' S SOSP : S

BWWA ' S CF AMRO : S

WTSP ' S HETH : S

- Manitowish Island

Page 1 of 4

No. NP - Manitowish
Date June 21, 1977

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Project #: 043318

Survey.		WT		BCCH	'	X
		AMCR	:	CORA	!:	X
05:30		EAKI	!:	P, A	SWSP	' S
Wind - 5		RWBL	!:	X	BHCO	' S
Precipitation - none.						
		STN 3	(07:09 - 07:15)	cattail open marsh		
		SWSP	!:	S, A, FY	RWBL	E R
AMCR	::	SACR	!:	P	AMRO	!:
SAVS	:' S	YEWA	'	S, CF	COYE	' S
CCSP	' S	MALL	'	X	ALFL	' S
PIWO	' X					
		STN 4	(07:28 - 07:39)	wet dec. forest		
06:15 - 06:25	pasture	REVI	:' S	BWMA	:' S	
SOSP	' S	AMRE	!:	S	RWBL	' X
AMCR	!:	BHCO	'	S	AMRO	' X
NOHA	' X	EWPE	:' S		DVEN	' S
		COYE	'	S	Dowo	' X, S
AMCR	!:	WT				
SOSP	'	SACR	X - flo	unk. #		
	wet/young	CHSP	!:	S	SAVS	:'
07:06:47	mixed forest	BOBO	'	S	AMCR	:' X
SOSP	:' S	EWST	!:	CF	AMRO	' X
AMRO	' S	AMKI	'	X	RBBU	:' X - flo
HEFH	:' S					

No NP - Mamitauhin

Date June 29/07

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dec. Swamp

Stn 5 (08:00 - 08:10)	Thicket
CEWA : X	WAWI : S
GCEL : X-calling	VEER : S
SWSP : S	AMRO : S
AMRE : S	BHCO : S
YEWI : S	

WT (08:10 - 08:45) Swamp/field.

COYE : S	AMRE : S
LEEL : calling	WODU : X
YEWI : S	SO SP <input type="checkbox"/> S
TUVU : X	BHCO : P
SAUS <input type="checkbox"/> cop/s	AMRO : X
AMCR : X	LOKA : X
NOHA : X	CEWA : X-fl
BWVA : S	RWBL :

wetland / open water (08:45 - 09:15) (feal)

RVDU : P	BWTE <input type="checkbox"/> X ducklys
BECH : S	AMRE : S
RBNU : X	RWBL : A
BCJA : X	BWVA : S
WODU : X	- possibly same as stn 5
EWPE : S, X	CHSP : S

wetland open water

CEWA : X	AMKI : P, N - can
SORA : calling	MAU <input type="checkbox"/> : ducklys
CSWA : S	

Adj. Forest

NP - Mammoth

dec. Swamp

upland dec.

- 08:10)	Thicket	Stn 6 (09:15 - 09:25)	(Oak) forest
VAVI	S	REVI	S BLJA
VEEK	S	EWPE	S CORA
AMRO	S	CEWA	X-calling. SOSA
BHCO	S		S

[WCT] Field edge (09:25 - 10:50)

0:45) Swamp/field.		BWWA	S	SOSP	S
AMCR	S	AMCR	X	YEWA	S
WODA	X	CAGO	X-flo	LEUS	X
SOSP	S	SAVS	S, P	RBGU	X-flo
BHCO	P	SACR	X-flo	EVME	S

height 20-50m

↳ + SACR in Pasture.

AMRO	K	NOHA	P	YEWA	S
CORA	X	NOFL	X	BOBO	X
CEWA	X-flo	STGR	X	BHCO	X
RWBLC		BLJA	X-calling.		

0:45 - 09:15) (feet)
BWTE X duckings

AMRE	S	Maclean's Mtn Woodlot (10:50 - 11:00)
RWBL	A	EWPE
BWWA	S	REVI
ibly some as stns		AMCR
CHSP	S	SOSP
AMRO	X-flo	

AMKI : P, N - cavity

MALL X : duckings

No. Northland Power - Manitowlin Island
 Date June 22/07 Page 1 of 4

Project #: 043318

Breeding Bird Survey.

Weather @ 05:30

Temp - 12°C

Wind - 2

Cloud - 0/10

Precipitation - none.

WT (05:30 - 05:55)

AMCR :

SOSP : S

CHSP : S

SACR : heard west &

YEMA : S

North Fields

pasture. Sta 7 (05:55 - 06:05)

SOSP : S

WPKL : *

LEWA : X

AMCR : X

YEMA : S

SACR UNK #

calling from west Field

WT

Pasture
 AMCR
 Field

SAVS : S

EUST : X

BHCO : X

WTSP : S

COYE : S

AMRO : X

SOSP : S

OVEN : S

Point Island

No. NP - Manitoba

Page 1 of 4

Date June 22/07

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: 043318

		Str 8	(06:23-06:33)	Dec. Forest	
		BGNW	: S	OVEN	: S
		EWPE	: S	REVI	: S
2		VEER	: S	RBSU	: X f/o

tation - none.

WT

		ROGR	: X	AMRE	:: S
S		AMRO	: X	CSWA	:: S, CF
heard west +		SOSP	: S	CEWA	: X
fields		BHCO	:: X	BOBO	:: S
		GCFL	: X	INBU	: S
(06:05)		BGNW	: S	AMCR	: X
PFL *		WBNA	: X	SAYS	:: P, S
AMCR : X		BCCU	: X	OVEN	: S
AMCR link #		UNK. radio	: X	NOHA	: X
ing from west field		BWNA	: S		

OPEN

ST	:: X	Str 9	(07:16-07:26)	Dec. Forest	
SP	:: S	BHCO	: X	BGNW	: S
AMRO	: X	VEER	: X	REW	:: S, P
REN	: S	WBNU	: X	SACR	:: X f/o
				AMCR	:: X

WT

		BGNW	: S	OVEN	: S
		CEWA	:: X	BWNA	: S
		WTSP	: X	AMRO	: S

NP - Manufahi

No
 Date June 22/09 Page 3 of 4

No
 Date

WT continued

AMCR : X CHSP : S
 WOTH : S BLJA - X

Stn 10 (07:53-08:03) Wetland

Forest Ridge

ALFL : S, X NAWA : S, X ^{abpr} _{Swamp}
 SOSP : S WTSP : S
 VEER : S HETH : S
 AMRE : S NOFL : X
 WBNA : S BLJA : X
 EABB : FY WAWI : X

Field

WT

SACR : X f/o AMGO : X
 COYE : S MODO : X
 CHSP : X SWSP : S
 AMRO : X BCKH : S
 NAWA : S ALFL : S, X
 SACR :

Stn 11 (08:32-08:40) Open Field

AMGO : X BLJA : X
 SACR : X WTSP : S
 AMRE : S SOSP : X
 NOFL : X RBEM : X - flo
 BWWA : S

WT

NP - Manitoba

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No
Date June 22, 02 Page 4 of 4

WT

4SP : S		OVEN : S	CHBP : S
LJA - X		BGNW : S	AMRO - X
	Forest Ridge	AMCR : X	SOSP : S
-08103) Wetland		AMRE : S	RWBL : X
WA : S, X		REVI : S	EWPE : S
IP : S		NAWA : S	REVI : S
TH : S		WLWR : S	
FL : X			
JJA : X	Field	AMRO : X	SOSP : X
AVI : X		LARSA : S	KILL : X
		AMCR : X	EAAB : X
		SAVS : S	SACR : X
AMGO : X		INBU : X	AMGO : S
MODO : X		GCFL : X	
SWSP : S			1
BCEH : S		STN 12 (10:14-10:26)	Dec Forest oak aspen
ALPL : S, X		BGNW : S	REVI : S
		AMRE : P	EWPE : S
		RTHU : P, X - calling	VEER : X
44) Open Field			
JJA : X		STN 13 (10:39-10:49)	Dec. Forest maple
OSP : S		OVEN : S	REVI : S
OSP : X		EWPE : S	
BGM : X - flo			
		WT	BEK : X
			TUVU : X

No NORTHLAND POWER - MANITOULIN
 Date July 3/07 Page 1 of 4

No
 Date

Project: 043318

Breeding Bird Survey (05:45-10:45)
 # 1 (continued)

Weather @ 05:45

Temp - 15°C Wind - 6

Cloud - 10/10 Precipitation - none

WT

SACR : X BLJA : X

AMCR : X BGNW : S

MOPO : X

Stn 14 (06:25-06:35) Dec. Forest
 BLJA : X - calling (cliff side)

WT

INBU : S BWVA : S

AMCR : X

Stn 15 (06:51-07:01) mixed forest.

BGNW : S OVEN : S

AMCR : X BLJA : X

AMRO : S KBNU : X

WT

BGNW : S RBGU : X

Project: 043318
Survey (05:45-10:45)
1 (continued)
5:45
Wind - 6
Precipitation - none

open field

BLJA : X
BGNW : S
06:35 Dec. Forest
calling (cliff side)

BWNA : S
07:00 mixed forest
OVEN : S
BLJA : X
BGNW : X
: S RBGM : X

STN 16 (07:15 - 07:25)		
SAVS : S	WBNU : X	calling
SOSP : S	AMRO : S	
RBGM : X	AMCR : X	
WTSP : S	BCCA : X	
NOFL : X	BLJA : X	

STN 17 (07:32 - 07:42) wetland swamp thicket		
AMRE : S	SWSP : S	
BCCIT : X, S	SACR : X, A	
CEWA : X	COYE : S	
SOSP : S	WBNU : S	
BLJA : X calling	CGR : X	
CORA : X	BGNW : S	

WT		
VEER : S	WTSP : S	
AMRO : X FY	NOCA : S	
NOFL : X	OVEN : S	
NANA : S	AMCR : X	

STN 18 (08:40 - 08:50) open dec. forest		
SOSP : S	REW : S	
AMRO : S	BGNW : S	
AMCR : X	BLJA : X calling	
BCCA : X	CEWA : X "	

NP - Manitowlin

No
Date

July 3/07

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Stn 19 (09:10-09:20) Dec. Forest

HETH : S	OVEN : S
BGNW : S	WBNU * X
	REVI * S

(WT)

REVI : S	SACK unkn. # heard
OVEN * S	to east

Stn 20 (09:39-09:49) ^{open shrubland} (near Red Lake)

CHSP : S	AMRO : X, S
SOSP : S	BCJA → X
AMCR : X	RBEU * X - f/0
NOFL * X	NAWA * S
TUVU * X - f/0	AMGO : X - f/0
BGNW * S	WTSP * S

(WT)

EAPH * S	EWPE * S
----------	----------

OTHER WILDLIFE

White-tailed deer	skunk
eastern chipmunk	raccoon
red squirrel	

dm

10-09:29 Dec. Forest

WT

OVEN : S

FIADH : X

MODO : X-calling

WBNU : X

OVEN : S

REVI : S

Stn 21 (10:32-10:42) Dec Swamp

BGNW : S

BOCH : X

SACR unk. # heard
to east

AMRE : S

REVI : S

10-09:49 open shrubland
(near Per. bank)

AMRO : X, S

BLJA : X

RBGU : X-flo

NAWA : S

flo AMGO : X-flo

WTSP : S

EWPE : S

10-09

dec

unk

skunk

vaicon

No. Northland Power - Manitowish
 Date July 4/07 Page 1 of 4

Project: 043318

Breeding Bird Survey #2
 (05:40-10:40)

Weather @ 05:40
 Temp - 15°C Wind - 6
 Cloud - 10% Precipitation - rain (light)
 for 1st 30 min of survey

WT

SOSP : S CCSP : S
 SAVS : S AMCR : X
 NAWA : S AMRO : S
 GCFL : S-calling REVI : S

Stn 1 (06:17-06:27)

SAVS : S CHSP : S
 NAWA : X SOSP : S
 EXME : S CORA : X
 AMCR : X

WT

REVI : S EWPE : S
 SAVS : S SOSP : S
 CORA : X

Project : 043318

Survey #2 (05:40-10:40)	Stn 2 (06:44-06:54)		
5:40	SOSP : S	HETH : S	
Wind - 6	BWWA : S, X	REVI : S	
Precipitation - rain (light) for 1st 30 min of survey	AMCR : X-flo		
CCSP : S	Stn 3 (07:07-07:17)		
AmCR : X	SWSP : S	RWBL <input checked="" type="checkbox"/>	A, CF
AmRO : S	EAKI : P, X	COYE : S	
ing REVI : S	NOOR : X	SOSP : S	
	YEWB : S		
	[WT]		
-06:27)	LEFL : X-calling	COGR : X	
CHSP : S	REVI :	AMRO : X	
SOSP : S			
CORA : X	Stn 4 (07:35-07:45)		
	EWPE : S	AMRE : S	
	AMCR : X	SACR : X	
	COYE : S	COGR : X	
EWPE : S	BCCH : S	BGNW : S	
SOSP : S	WBNW : P		
	[WT]		
	HETH : S	CEWA : X	
	AMCR : X	SAYS : S	
	TUVV : X-flo	RBNW : X-flo	

Stn S	(08:00 - 09:12)	
SWSP	:: S	VEER: S, X
REVI	' S	AMRE ' S
EWPE	' S	LEFL ' S
GCFL	' S - calling	COYE ' S
AMRO	' X	EAPH ' X
Yewa		PUFI [P, X

(WT)

	AMRO :: X	LOGR :: X, P
shrub	SAUS : S	TUUN ' X
	MALL ' X - P/b	Yewa : S
	EAKI : X, A	BBCH - X
pasture	AMGO ' X	RBGU ' X - P/b
	SWSP : S	AMRO : X
	RWBL [A	COSR [A
wetland	MALL [X] X, FY	WTSP ' S
	INBU :: S	SWSP : S, X
adj.	BCCH : X	EWPE ' S
to	VEER ' S	HETH ' S
wetland	AMRE :: S	WBNu ' X

-08:12)			St h 6 (09:09-09:19)	
VEER: S X			REVL S	CHSP S
AMRE S			SACR X	soon to SE EWPE S
LEFL S				
calling COYE S			WD	
EAPH X			BCCN X	CEWA T X
DWFI C P X			SOSP X S	FY EABB S P X
			EWST X X X	FYN NOHA X
			SAYS X X X	FY P RBGU X X
LOGR S X P			SACR X X	AMCR X
TWU X				AMGO S X
VEWA S			VEWA S	
BB LU X				
RBGU X P %	Maclean's		REVL S	OVEN S
AMRO X	Mt Forest		CHSP P	AMCR X - calling
COGR X A			SOSP S	VEER X
FY WTSP S	(10:27-10:37)			
SWSP S X				
			Comments: Windy all morning make auditory sensing difficult Day 100-150m	
EWPE S				
HETH S				
WBNu X				

No. Northland Power - Manitowlin
Date July 5, 1977 Page 1 of 5

Project = 043318

Breeding Bird Survey #2 (05:45-10:15)

Weather @ 05:45

Temp - 16°C

Wind - 3

Cloud - 9/10

Precipitation - none

WT

SOSP : S FY SAVS : S

EIABIB : X

STN 7 (06:09-06:19)

AMCR : X

SOSP : S

SAVS : S

CHSP : P

AMRC : X

BEICU : P

CEWA : X

EAST : X

WTSP : S

OVEN : S

HETH : S adj. forest

to west

WT

SOSP : S

CEWA : X

DOWD : P

REVI : S

- - Manitoulin
Page 1 of 5

No NP-Manitoulin
Date July 5/07 Page 2 of 5

reject = 043318

Survey #2 (05:45-10:15)
15
Wind - 3
Precipitation - none
FY SAUS . S
109 - 06:19)
SOSP .: S
CHSP . P
BACO . P
EMST . X
HETH . S adj. forest
west
CEWA . X
REVI . S

Stn 8 (06:39-06:49)
OVEN .: S BWWA : S
NAWA . S VEER : S
RBGR . S AMRE : S
HETH . S AMCR : X - calling
WBNU . X - calling SACR unk #
heard NE of pt.
WT
CSWA . S CHSP in FY
BGNW . S WBNU . X
EWPE . S BCOH .: X
AMRO . X SOSP in S, FY
WTSP . S BATH : P
REVI .: S AMRE : S
BWWA : FY OVEN . S
SAUS .: S HETH . S

Stn 9 (07:30 - 08:40)
OVEN . S HETH . S
REVI .: S BWWA : S
AMCR . X BGNW . S
BWWA . X
↳ light morph.

NP- Manitoulin

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WT

SOSP	:	S	VEER	:	S
WTSP	:	S	WBNU	:	X
BGNW	:	S			

STN 10 (07:54-08:04)

WTSP	:	S	EABB	:	P, NU
BCH	:	S	VEER	:	S
MOOD	:	X, S	NANA	:	S
DOWN	:	CF, P	COYE	:	S
SOSP	:	FY	AMGO	:	X
GCEL	:	X	REVI	:	S
WBNU	:	X-calling	BLJA	:	X-calling
CEWA	:	X-calling			

WT

COYE	:	S	SWSP	:	S
BCH	:	X	BWNA	:	S
WTSP	:	S	AMGO	:	X
VEER	:	S	DOWN	:	X

STN 11 (08:20-08:30)

JACK	:	X, A	WTSP	:	S
SOSP	:	S	COYE	:	S
BLJA	:	X	DOWN	:	X-calling

in

VEER : S
 WBNU : X

7:54-08:04
 EABB : P, NU
 VEER : S
 NAWA : S
 P COYE : S
 AMGO : X
 REVI : S

calling
 calling
 BLJA : X-calling

SWSP : S
 BWVA : S
 AMGO : X
 DOWN : X

(08:20-08:30)
 WTSP : S
 COVE : S
 DOWN : X calling

WT
 OVEN : S
 SOSPA : S
 open field
 WTSP : S
 CHSP : S
 wetland
 SWSP : S
 YEWA : S
 RWBL : X
 Forest
 EWPE : S
 BGNW : S
 REVI : S
 INBU : S

west field
 EAPH : X
 AMGO : S

Stn 12 (10:13-10:23)
 OVEN : S
 EWPE : S
 BGNW : S
 AMRE : S
 MAWA : S

WT
 RBGR : X/P
 unk : FY
 BGNW : X

NOHA : X
 SAVS : S
 EUST : X
 SAGR : X
 COVE : S
 EAKI : X
 WBNU : X
 LEFL : X
 AMRO : S
 SOTA : S
 AMRL : X

CHSP : CF
 GRHE : X-F/6

REVI : S
 VBSS : X S
 AMCR : X
 BCCH : X

CHSP : X
 NOFL : X
 HETH : S

Sta 13 (10:44 - 10:54)

OVEN : S	EWPE : S
LEFL : X - falling.	VEER : X
BGNV : S	WOTH : S

WT

REUI : S	OVEN : S
LEFL : S	ECCH : FY
YBCU : X	

Project: 043318

54)		Breeding Bird Survey #2	
EWPE : S			
calling. VEER : X		Weather @ 05:50	
WOTH : S		Temp - 16°C	Wind - 2
		Cloud - 2 ho	Precipitation - none
OVEN : S		<u>WT</u>	
BCCH : PY		BLJA : X	EAKL : P
		AMRO : X	COYE : S
		OVEN : S	WIMR : S
		Stn 14 (06:13-06:23)	
		BLJA : X	BGNW : S
		AMRO : X	CEWA : X
		AMRE : S	REVI : S
		WBNG : X	TRES : X
		OVEN : S	HETH : S
		BCCH : X	
		<u>WT</u>	
		NOFL : X	VEER : S
		OVEN : S	AMRE : S
		BWWA : S	AMRO : S

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No.
 Date

Stn 15 (06:43 - 06:53)

OVEN : S BGNW : S, P

WBNU : X-calling VEER : S

AMCR : X-calling BWNA : S

North

WT

RUSR : X

WTSP : S

South

NOFL : X

Stn 16 (07:09 - 07:19)

AMRO : S, P SOSP : S

WTSP : S VEER : S

NAWA : S BCCN : X

BLJA : X AMCR : X

BGMW : S COGR : X-flo

→ all birds observed @ edge
 of in surrounding forest.

Stn 17 (07:29 - 07:39)

AMRO : X SWSP : S COYE : X, S

NAWA : S VEER : S

WTSP : S SOSP : S

BWNA : P RBNU : X

REVI : S GBHE : X-P/G

BCCN : X

NP - Manitoba

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No
Date

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06:45 - 06:55			WT		
BGNW :: S, P			NANA · S	REVI · S	
calling VEER · S			BWNA · S	AMRO :: X	
calling BWNA · S		North	TUVU · X	WTSP · X	
			OVEN · S	RUGR · X, H	
			→		
WTSP · S		South	BCCA · X	CHSP · S	
			OVEN · S	AMBE · S	
07:09 - 07:19			Stn 18	08:38 - 08:48	
SOSP · S			RBNW · S	MOOD · S	
VEER · S			BLJA · X	SACR · X	
BCCA · X			REVI · S	AMRO · S	
AMRO · X			AMRE · S	NOFL :: X	
COBR · X - f/o			BCCA · X	HETH · S	
			VEER · S	WBNW · X - calling	
observed @ edge			BGNW · S	SOSP · S	
surrounding forest.			GLFL · X - calling		
(07:29 - 07:39)			Stn 19	08:56 - 09:06	
S COYE :: X, S			REVI · S	OVEN :: S	
S VEER · S			BGNW :: S	BCCA · X	
SOSP · S			RBNW · X	EWPE · S	
RBNW · X			HETH · S	NOFL · X	
GBHE · X - f/o			WBNW · X	COLO · X - f/o	