

Appendix B3

2011 Bird Breeding Surveys

NextEra Bird / Wildlife Survey Form

Study Area: Goshken Turbine Site: GE 62 Feature No.: 177
 Observers: Kruska Time Start: 9:15 Time Stop: 9:55
 Date: May 25/2011 Wind: 0 Cloud: 90
 Search area/distance recorded on field map: Temp: 16° Precip: 0

Bird Species	Ev.	120 m	>120	Bird Species	Ev.	120 m	>120	Wildlife Species	Ev.	120 m	>120
Turkey Vulture	X	1 ✓		Yellow Warbler	P	1 ✓	1 ✓	Green Heron	OB	1	
Red-tailed Hawk				Com. Yellowthroat				indigo			
Killdeer	H		1 ✓	Northern Cardinal				Raccoon	TR		
Mourning Dove				Rose-br. Grosbeak	S	1 ✓					
Downy Woodpecker				Indigo Bunting	S	2 ✓					
Northern Flicker	S	1 ✓		Chipping Sparrow							
E. Wood Pewee	S	1 ✓		Song Sparrow	P	3 ✓	2 ✓				
Willow Flycatcher				Savannah Sparrow							
Eastern. Phoebe											
Gr. Cr. Flycatcher	S	1 ✓	1 ✓	Red-wing. Blackbird	P	2 ✓	1 ✓				
Eastern Kingbird				Common Grackle	P	10 ✓					
Tree Swallow				Br.-head. Cowbird	P		1 ✓				
Barn Swallow				Baltimore Oriole	P	2 ✓	1 ✓				
Blue Jay	X		1 ✓	Am. Goldfinch	S	2 ✓	1 ✓				
Am. Crow	X	1 ✓	1 ✓	Am Woodcock	1	1 ✓					
Bl.-cap. Chickadee				Red-bellied WP			1 ✓				
White-br. Nuthatch				Mallard	X	3 ✓					
House Wren				Am Redstart	S	1 ✓					
Wood Thrush	S	1 ✓									
Am. Robin	S		1 ✓								
Gray Catbird	S	1 ✓	1 ✓								
Cedar Waxwing											
E. Starling											
Warbling Vireo											
Red-eye Vireo	S	1 ✓	2 ✓								

Notes (e.g. basic description of habitat covered)

Call somewhat like Towhee but with variable note after "Drink-you-..." Vesper Sp?

Ash Swamp w shallow pooling

At least a dozen COGR in woodlot, appear to be nesting colony
 AMWD flushed from swamp

* record UTM for species of conservation concern.

NextEra Bird / Wildlife Survey Form

Study Area: Goshen Turbine Site: Siemens 46 Feature No.: 177
 Observers: Scott Martin Time Start: 6:23 am Time Stop: 7:18 am
 Date: July 2/11 Wind: S B: ① Cloud: 90%
 Search area/distance recorded on field map: Temp: 19°C Precip: nil

Bird Species	Ev.	120 m	>120	Bird Species	Ev.	120 m	>120	Wildlife Species	Ev.	120 m	>120
Turkey Vulture				Yellow Warbler	SM	1 ✓					
Red-tailed Hawk				Com. Yellowthroat							
Killdeer				Northern Cardinal							
Mourning Dove				Rose-br. Grosbeak							
Downy Woodpecker	SM	1 ✓		Indigo Bunting	SM	1 ✓					
Northern Flicker				Chipping Sparrow							
E. Wood Pewee	SM	1 ✓	1 ✓	Song Sparrow	SM	2 1 ✓	1 ✓				
Willow Flycatcher				Savannah Sparrow	SM	1 ✓					
Eastern. Phoebe											
Gr. Cr. Flycatcher				Red-wing. Blackbird	SM	1 ✓					
Eastern Kingbird				Common Grackle							
Tree Swallow				Br.-head. Cowbird							
Barn Swallow				Baltimore Oriole	P	2 ✓					
Blue Jay				Am. Goldfinch	SM	2 ✓					
Am. Crow	X		5 ✓								
Bl.-cap. Chickadee											
White-br. Nuthatch											
House Wren											
Wood Thrush											
Am. Robin	SM	1 ✓									
Gray Catbird											
Cedar Waxwing											
E. Starling											
Warbling Vireo											
Red-eye Vireo											

Notes (e.g. basic description of habitat covered)

Soya field ; wheat field ; drainage ditch w hedgerow ;
SWD - Silver Maple, Red Maple, Ash, Ironwood, Nannyberry, Red-osier Dogwood,
sensitive fern, Fowl Manna Grass, Pop Sedge - Vernal flooded

* record UTM for species of conservation concern.

July 2/11

Start: 6:23am

End: 7:18am

Temp: 19°C

Wind: ① South

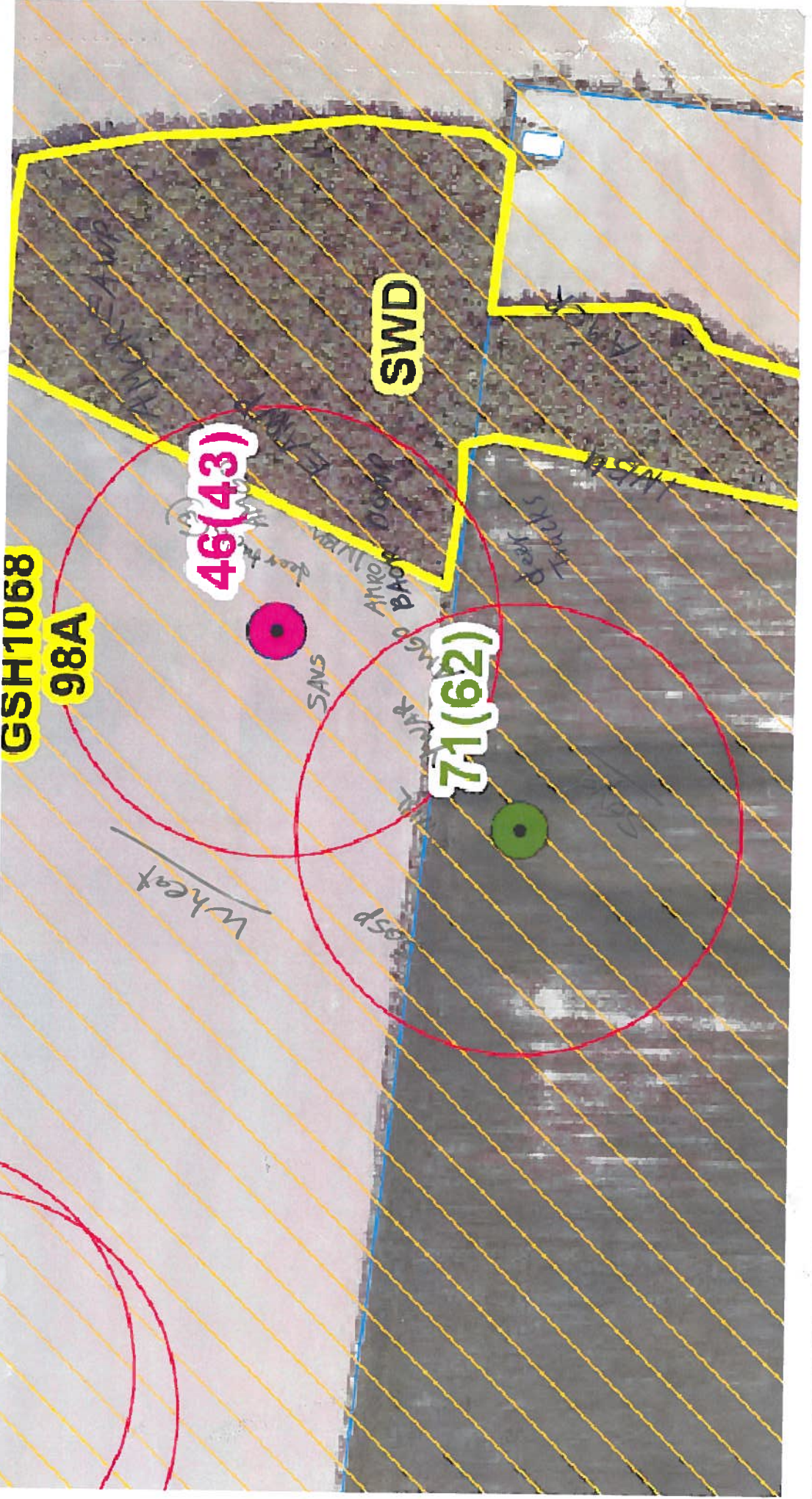
Cloud: 90%

Precip: nil

Vernal Pools

- Aw PI
- Ns Fowl Manna
- Id Virg. Creeper
- MR Hop Sedge
- Nannyberry
- Jelvis Fern
- ROD

AMCR (3)



NextEra Bird / Wildlife Survey Form

Study Area: Gosheu Turbine Site: GE 54 Feature No.: 1a10/189
 Observers: J Kanwisher Time Start: 10:45 Time Stop: 11:15
 Date: May 25 / 2011 Wind: Beauf 1 Cloud: 100
 Search area/distance recorded on field map: Temp: 18.5 °C Precip: 0

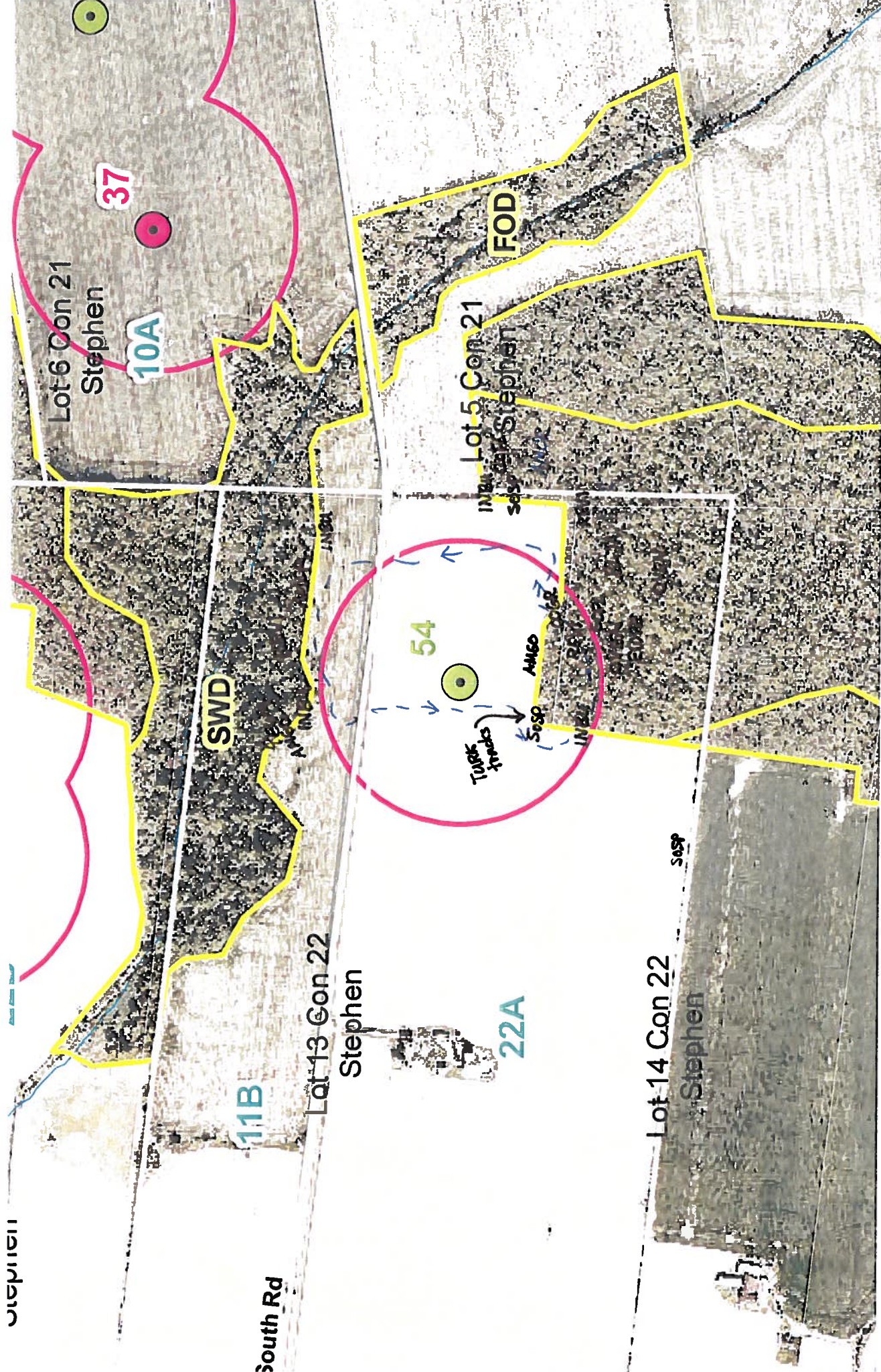
Bird Species	Ev.	120 m	>120	Bird Species	Ev.	120 m	>120	Wildlife Species	Ev.	120 m	>120
Turkey Vulture	X	5 ✓		Yellow Warbler	S		1 ✓	Raccoon	TK	✓	
Red-tailed Hawk				Com. Yellowthroat				Gray Squirrel	CB	✓	
Killdeer				Northern Cardinal							
Mourning Dove				Rose-br. Grosbeak							
Downy Woodpecker				Indigo Bunting	S	1 ✓	3 ✓				
Northern Flicker				Chipping Sparrow							
E. Wood Pewee				Song Sparrow	S	1 ✓	2 ✓				
Willow Flycatcher				Savannah Sparrow							
Eastern. Phoebe	⊗										
Gr. Cr. Flycatcher	S	1 ✓	1 ✓	Red-wing. Blackbird							
Eastern Kingbird				Common Grackle							
Tree Swallow				Br.-head. Cowbird							
Barn Swallow				Baltimore Oriole							
Blue Jay	H		1 ✓	Am. Goldfinch	S	1 ✓	1 ✓				
Am. Crow	H		2 ✓	Wild Turkey	TK						
Bl.-cap. Chickadee				Oveabird	S	1 ✓	1 ✓				
White-br. Nuthatch											
House Wren											
Wood Thrush											
Am. Robin											
Gray Catbird											
Cedar Waxwing											
E. Starling											
Warbling Vireo											
Red-eye Vireo	S	1 ✓	2 ✓								

Notes (e.g. basic description of habitat covered)

* record UTM for species of conservation concern.

GE 54

May 25/11 JK



NextEra Bird / Wildlife Survey Form

Study Area: Goshen Turbine Site: GE 64 Feature No.: 1210/109
 Observers: Scott Martin Time Start: 7:36 am Time Stop: 8:02 am
 Date: July 2/11 Wind: S Bi ① Cloud: 95%
 Search area/distance recorded on field map: Temp: 21°C Precip: 2-3mm @ end

Bird Species	Ev.	120 m	>120	Bird Species	Ev.	120 m	>120	Wildlife Species	Ev.	120 m	>120
Turkey Vulture				Yellow Warbler				W-T Deer	TK		1
Red-tailed Hawk	H	1	✓	Com. Yellowthroat							
Killdeer	H		1	Northern Cardinal							
Mourning Dove				Rose-br. Grosbeak	SM	1	✓				
Downy Woodpecker				Indigo Bunting	SM	1	3				
Northern Flicker				Chipping Sparrow							
E. Wood Pewee	SM		1	Song Sparrow	SM	1	2				
Willow Flycatcher				Savannah Sparrow							
Eastern. Phoebe											
Gr. Cr. Flycatcher	SM	3	✓	Red-wing. Blackbird	SM		1				
Eastern Kingbird				Common Grackle							
Tree Swallow				Br.-head. Cowbird							
Barn Swallow				Baltimore Oriole	SM	1	1				
Blue Jay				Am. Goldfinch	H	1	1				
Am. Crow	H	1	✓								
Bl.-cap. Chickadee											
White-br. Nuthatch											
House Wren	SM		1								
Wood Thrush											
Am. Robin											
Gray Catbird											
Cedar Waxwing	SM		1								
E. Starling											
Warbling Vireo											
Red-eye Vireo	SM	1	✓								

Notes (e.g. basic description of habitat covered)

Soya fields, SWD - Walnut, BurOak, Red Ash; Bitternut Hickory

Upland edge forest - Basswood, walnut, White Elm, White Ash; shag bark

Hickory, Grey Dog wood, Trembling Aspen.

narrow upland edge along SWD @ North side, that very quickly drops to lowland/swamp in creek valley

* record UTM for species of conservation concern.

July 2/11
Start Time: 7:36 am
End Time: 8:02 am
Temp: 21°C Wind: D - S

cloud: 95%
precip: ~~0~~
starting to rain @ end
~ 2-3 mm

SW Valley Walnut
Rural Oak

Up land edge that quickly
drops to lowland creek valley

Bb Walnut } at edge (upland)
SW
Any
Hollyhock
Grey Dogwood
PT



090

SH1023
22A

64(54)
AMCR (2)

SOYA

SWD

KILL

SOYA

RUBB

APIGO

INBU
BAOR
RGI
AMGO

SOSP

INBU

CUT

SOSP

SOSP

NextEra Bird / Wildlife Survey Form

Study Area: Goshen Turbine Site: GE55 Feature No.: 189/
 Observers: Kamstra Time Start: 7:30 Time Stop: 8:15
 Date: May 25/2011 Wind: BS1 Cloud: 80%
 Search area/distance recorded on field map: Temp: 14°C Precip: _____

Bird Species	Ev.	120 m	>120	Bird Species	Ev.	120 m	>120	Wildlife Species	Ev.	120 m	>120
Turkey Vulture				Yellow Warbler	S		1 ✓				
Red-tailed Hawk				Com. Yellowthroat	S	1 ✓					
Killdeer	H	1 ✓		Northern Cardinal							
Mourning Dove				Rose-br. Grosbeak	S	1 ✓	1 ✓				
Downy Woodpecker				Indigo Bunting	S	1 ✓					
Northern Flicker				Chipping Sparrow							
E. Wood Pewee				Song Sparrow	S	5 ✓	3 ✓				
Willow Flycatcher				Savannah Sparrow	S	2 ✓	1 ✓				
Eastern. Phoebe											
Gr. Cr. Flycatcher	S	1 ✓	1 ✓	Red-wing. Blackbird	S	1 ✓	1 ✓				
Eastern Kingbird				Common Grackle							
Tree Swallow				Br.-head. Cowbird	P	2 ✓	1 ✓				
Am Swallow	X	1 ✓		Baltimore Oriole	S	1 ✓					
Blue Jay	X	1 ✓		Am. Goldfinch	P						
Am. Crow	X	1 ✓		Red-bellied WP	S	1 ✓					
Bl.-cap. Chickadee				Great Blue Heron	AE	1 ✓	2 ✓				
White-br. Nuthatch				Oven bird	S		1 ✓				
House Wren	S	1 ✓									
Wood Thrush	S	1 ✓	1 ✓								
Am. Robin	S	1 ✓									
Gray Catbird											
Cedar Waxwing											
E. Starling											
Warbling Vireo											
Red-eye Vireo	S	2 ✓	1 ✓								

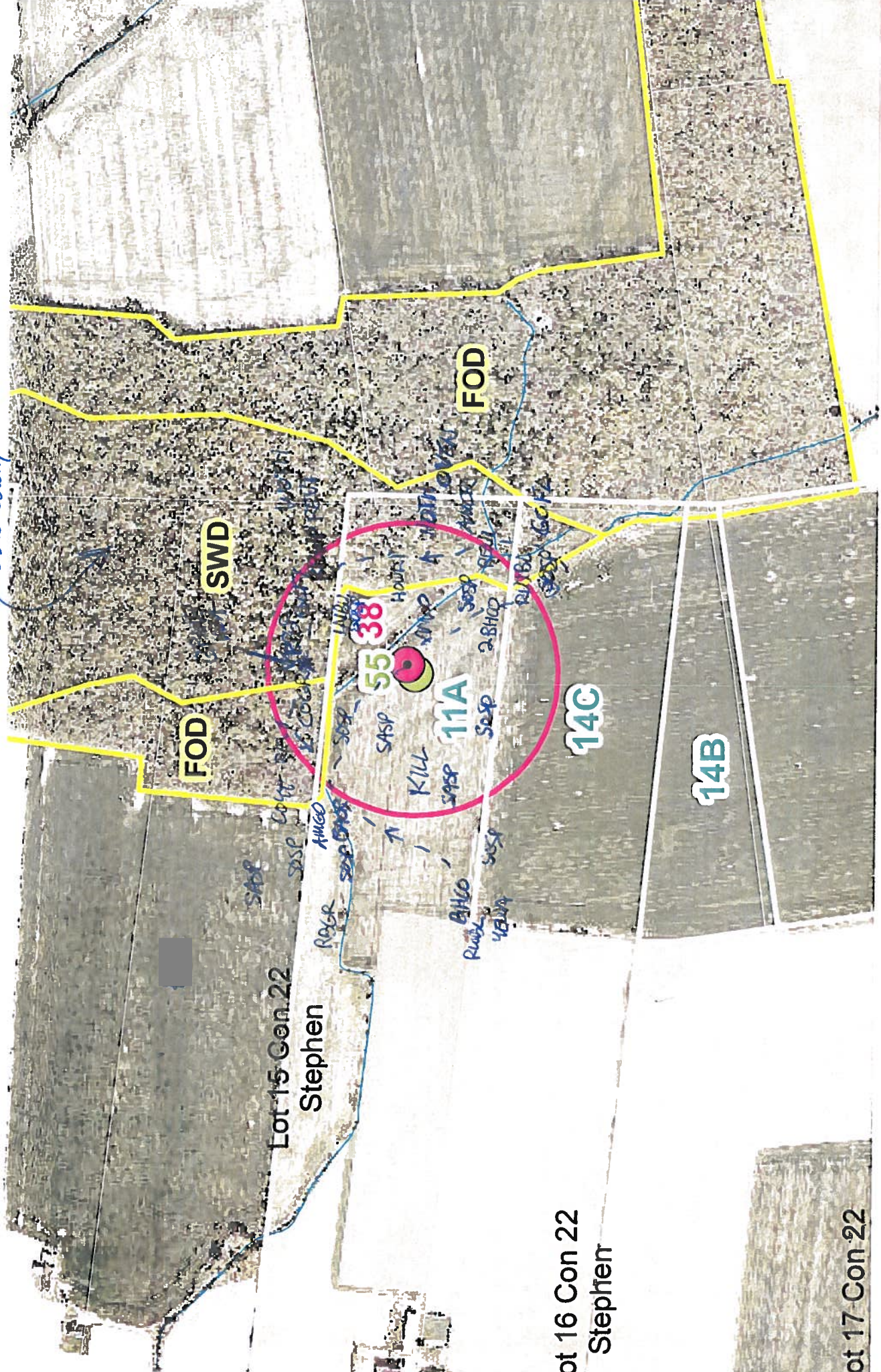
Notes (e.g. basic description of habitat covered)

Great Blue Heron - 1 active nest in Shegah Hickey in woodlot UTM 440015
 other nests (heron heard) further to N + NE, → nest 25 m from woodlot edge 4789135

* record UTM for species of conservation concern.

GESS

ESBE colony



Lot 15 Con. 22
Stephen

ot 16 Con 22
Stephen

ot 17 Con 22

NextEra Bird / Wildlife Survey Form

Study Area: Goshen Turbine Site: Sieman 42 / 6665 Feature No.: 189
 Observers: Scott Martin Time Start: 8⁰² am Time Stop: 9²¹ am
 Date: July 3/11 Wind: NW B: ① Cloud: 5%
 Search area/distance recorded on field map: Temp: 20°C Precip: nil

Bird Species				Bird Species				Wildlife Species			
Ev.	120 m	>120		Ev.	120 m	>120		Ev.	120 m	>120	
			Turkey Vulture				Yellow Warbler				WT Deer
			Red-tailed Hawk	SM			Com. Yellowthroat				TK
			Killdeer				Northern Cardinal				1
			Mourning Dove				Rose-br. Grosbeak				
			Downy Woodpecker	SM	1	✓	Indigo Bunting	SM	2	✓	
			Northern Flicker				Chipping Sparrow				
			E. Wood Pewee	SM	1	✓	Song Sparrow	SM	2	✓	2
			Willow Flycatcher				Savannah Sparrow	SM	2	✓	2
			Eastern Phoebe								
			Gr. Cr. Flycatcher				Red-wing. Blackbird	SM	1	✓	1
			Eastern Kingbird				Common Grackle				
			Tree Swallow				Br.-head. Cowbird				
			Barn Swallow				Baltimore Oriole	SM	1	✓	
			Blue Jay				Am. Goldfinch	H	2	✓	
			Am. Crow				Grt. Blue Heron	AE/NY			2
			Bl.-cap. Chickadee	SM	1	✓	Horned Lark	SM	1	✓	‡
			White-br. Nuthatch	SM	2	✓	Blue-Gray Gnatcatcher	SM	1	✓	
			House Wren				R-S Towhee	SM	1	✓	
			Wood Thrush	SM	1	✓	Woodcock	H	1	✓	
			Am. Robin								
			Gray Catbird								
			Cedar Waxwing	SM	1	✓					
			E. Starling								
			Warbling Vireo								
			Red-eye Vireo								

Notes (e.g. basic description of habitat covered)

Corn field; soya field; CUM - Alfalfa, Timothy, some goldenrods, clover
 FOD - Pit & Mound - many upland spp, but lots of depressions (wet)/vernal pools, sedges
 SWD - White Elm, Red Ash, Basswood w standing water / Black Ash, shagbark & Bitternut
 Hickories, Basswood, Blue Beech, Trambling Aspen
 * Very Complex pit & mound topography in north FOD w Black Ash, Spicebush, Witch Hazel plus
 * Blue Heron Rookery plenty of upland spp.

* record UTM for species of conservation concern.

new layout: GE 62, SMN41

NextEra Bird / Wildlife Survey Form

Study Area: Goshen Turbine Site: GE 56 Feature No.: 190/210
 Observers: Kamstra Time Start: 7:00 Time Stop: 7:25
 Date: May 26/2011 Wind: 0 Cloud: 100%
 Search area/distance recorded on field map: Temp: 16°C Precip: light rain

Bird Species	Ev.	120 m	>120	Bird Species	Ev.	120 m	>120	Wildlife Species	Ev.	120 m	>120
Turkey Vulture				Yellow Warbler				Eur. Hare	DB		1
Red-tailed Hawk				Com. Yellowthroat							
Killdeer				Northern Cardinal							
Mourning Dove				Rose-br. Grosbeak							
Downy Woodpecker				Indigo Bunting	S	1	✓				
Northern Flicker				Chipping Sparrow							
E. Wood Pewee				Song Sparrow	S	2	✓				
Willow Flycatcher				Savannah Sparrow							
Eastern. Phoebe											
Gr. Cr. Flycatcher				Red-wing. Blackbird							
Eastern Kingbird				Common Grackle							
Tree Swallow				Br.-head. Cowbird							
Barn Swallow				Baltimore Oriole							
Blue Jay				Am. Goldfinch							
Am. Crow				Horned Lark	S	1	✓				
Bl.-cap. Chickadee				Vesper Sparrow	S	1	✓				
White-br. Nuthatch											
House Wren											
Wood Thrush											
Am. Robin											
Gray Catbird											
Cedar Waxwing											
E. Starling											
Warbling Vireo											
Red-eye Vireo											

Notes (e.g. basic description of habitat covered)

* record UTM for species of conservation concern.



6K S1 very close to

Bend Line

MEM

SWM

WOD

Lot 7 Con 21
Stephen

56



SASP HOBA

VEEP

37



Lot 6 Con 21
Stephen

10A

SWD

FOD

36

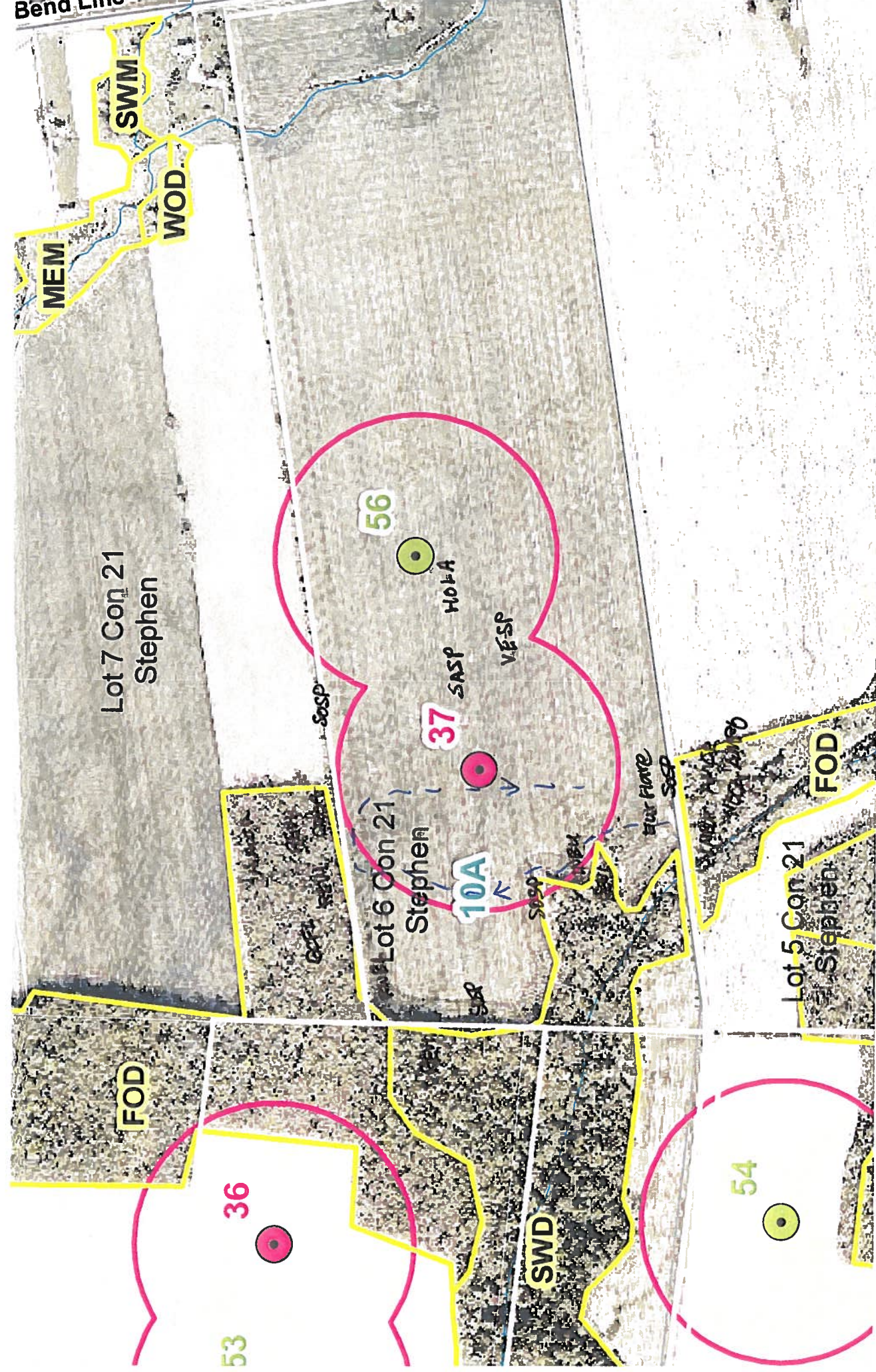


53

Lot 5 Con 21
Stephen

FOD

54



NextEra Bird / Wildlife Survey Form

Study Area: Goshen Turbine Site: GE 52 Feature No.: 199
 Observers: JK Time Start: 11:15 Time Stop: 11:45
 Date: May 25/2011 Wind: Boat 1 SE Cloud: 100%
 Search area/distance recorded on field map: Temp: 19°C Precip: drizzle

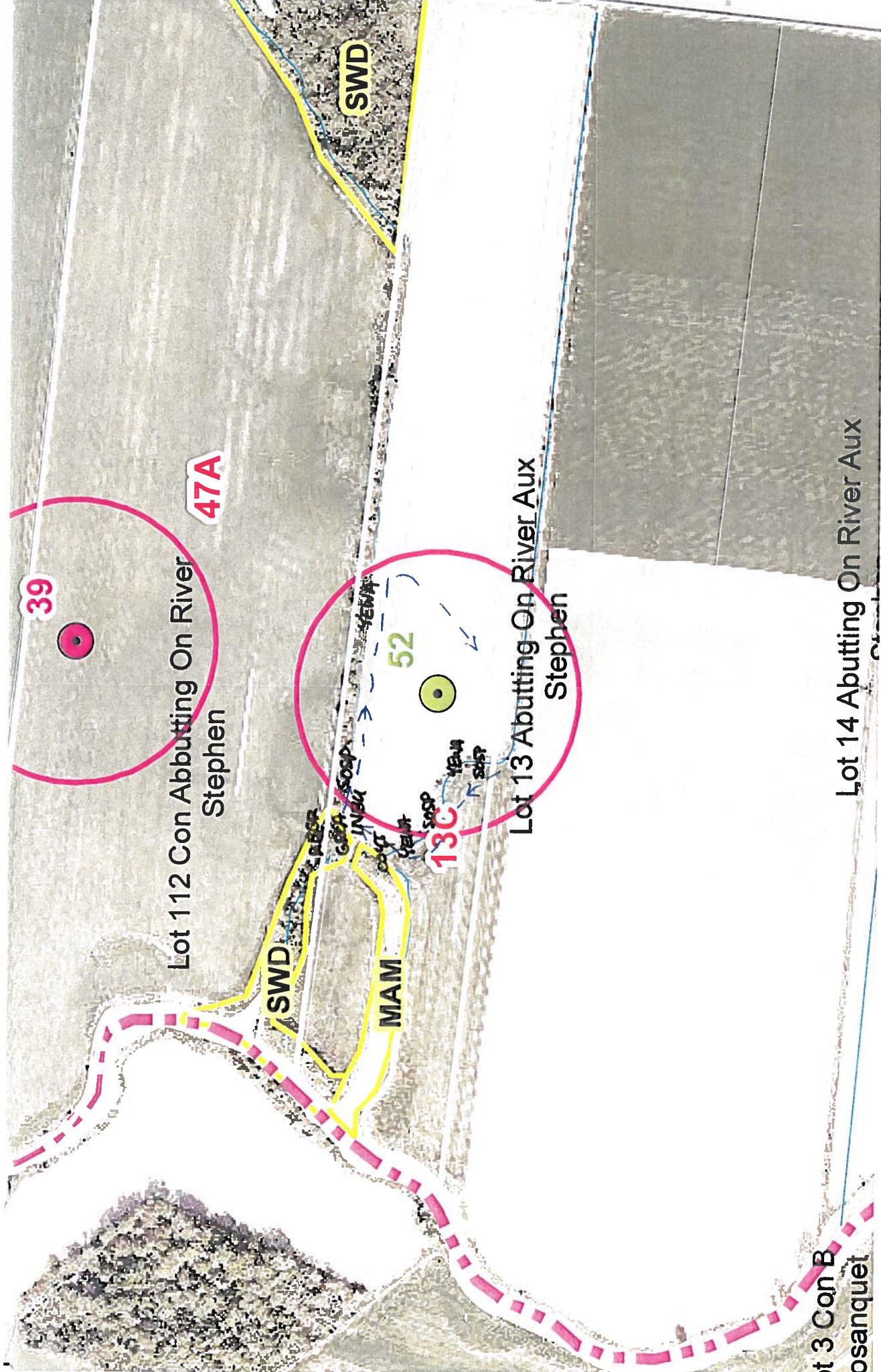
Bird Species	Ev.	120 m	>120	Bird Species	Ev.	120 m	>120	Wildlife Species	Ev.	120 m	>120
Turkey Vulture				Yellow Warbler	P	3 ✓					
Red-tailed Hawk				Com. Yellowthroat	S		1 ✓				
Killdeer				Northern Cardinal							
Mourning Dove				Rose-br. Grosbeak	S		1 ✓				
Downy Woodpecker				Indigo Bunting							
Northern Flicker				Chipping Sparrow							
E. Wood Pewee				Song Sparrow	S	3 ✓					
Willow Flycatcher				Savannah Sparrow							
Eastern. Phoebe											
Gr. Cr. Flycatcher				Red-wing. Blackbird							
Eastern Kingbird				Common Grackle							
Tree Swallow				Br.-head. Cowbird							
Barn Swallow				Baltimore Oriole							
Blue Jay				Am. Goldfinch							
Am. Crow											
Bl.-cap. Chickadee											
White-br. Nuthatch											
House Wren											
Wood Thrush											
Am. Robin											
Gray Catbird	S		1 ✓								
Cedar Waxwing											
E. Starling											
Warbling Vireo											
Red-eye Vireo											

Notes (e.g. basic description of habitat covered)

* record UTM for species of conservation concern.

GE 52

May 27/11



Lot 112 Con Abutting On River
Stephen

Lot 13 Abutting On River Aux
Stephen

Lot 14 Abutting On River Aux

Lot 3 Con B
osanquet

39

47A

MAM

SWD

SWD

52

13C

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

SOSP

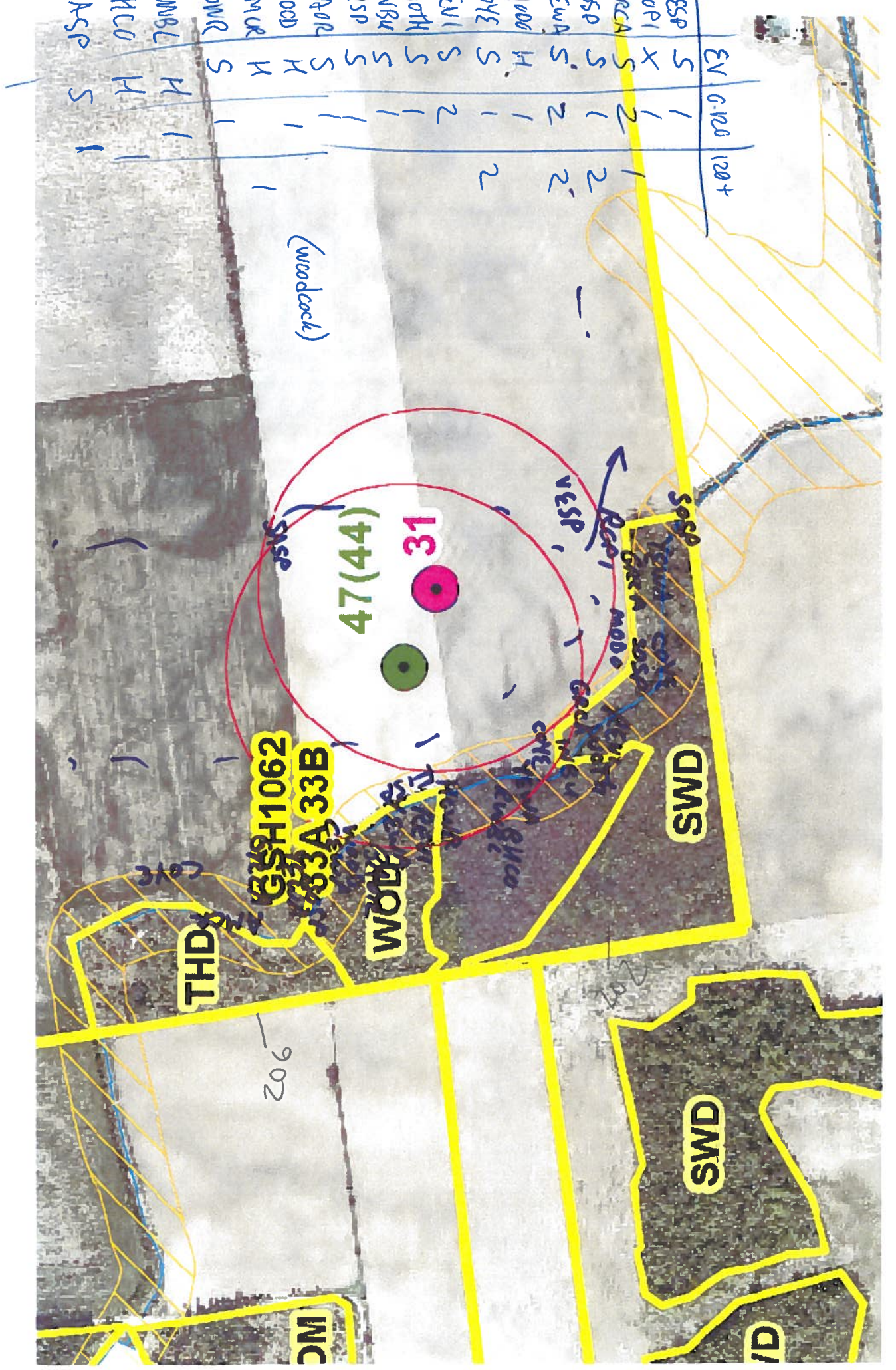
SOSP

SOSP

SOSP

SOSP

K. 14 msiva
 Jan 28 - 0605, 6⁹⁰
 S-l. sunny. 20°C



NextEra Bird / Wildlife Survey Form

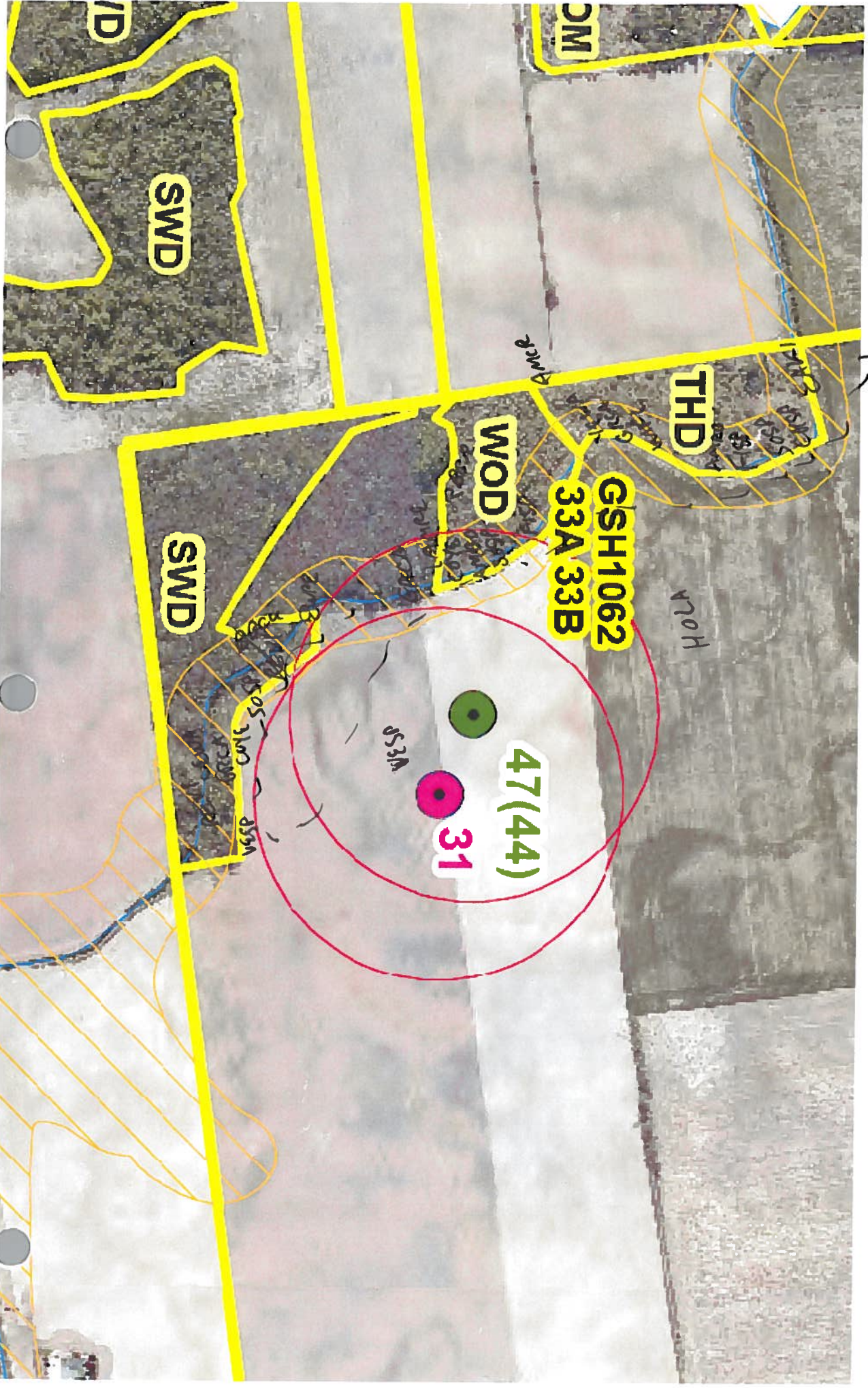
Study Area: Goshen Turbine Site: GE 47(44)/S-31 Feature No.: 202/2006
 Observers: R. Tymstra Time Start: 6:25 Time Stop: 6:55
 Date: July 7/11 Wind: Calm Cloud: None
 Search area/distance recorded on field map: Temp: 14°C Precip: None

Bird Species	Ev.	120 m	>120	Bird Species	Ev.	120 m	>120	Wildlife Species	Ev.	120 m	>120
Turkey Vulture				Yellow Warbler	S		1✓				
Red-tailed Hawk				Com. Yellowthroat	S	2✓					
Killdeer				Northern Cardinal							
Mourning Dove				Rose-br. Grosbeak	S		1✓				
Downy Woodpecker				Indigo Bunting							
Northern Flicker				Chipping Sparrow	S		1✓				
E. Wood Pewee				Song Sparrow	S	2✓	1✓				
Willow Flycatcher	S		1✓	Savannah Sparrow							
Eastern. Phoebe											
Gr. Cr. Flycatcher				Red-wing. Blackbird							
Eastern Kingbird	S	1✓		Common Grackle							
Tree Swallow				Br.-head. Cowbird							
Barn Swallow				Baltimore Oriole							
Blue Jay				Am. Goldfinch	S	1✓					
Am. Crow	H		1✓	Field Sparrow	S	1✓	1✓				
Bl.-cap. Chickadee				Vesper Sparrow	S	2✓					
White-br. Nuthatch				Horned Lark	H	1✓					
House Wren				Am. Redstart	S	1✓					
Wood Thrush				Black-b. Cuckoo	S	1✓					
Am. Robin	S		1✓								
Gray Catbird	S	2✓	1✓								
Cedar Waxwing	H		1✓								
E. Starling											
Warbling Vireo											
Red-eye Vireo	S	1✓	1✓								

Notes (e.g. basic description of habitat covered)

Corn/Beans / decid. woodlot
riparian creek / pasture edge

* record UTM for species of conservation concern.



SWD

DM

THD

WOD

GSH1062
33A 33B

SWD

47(44)

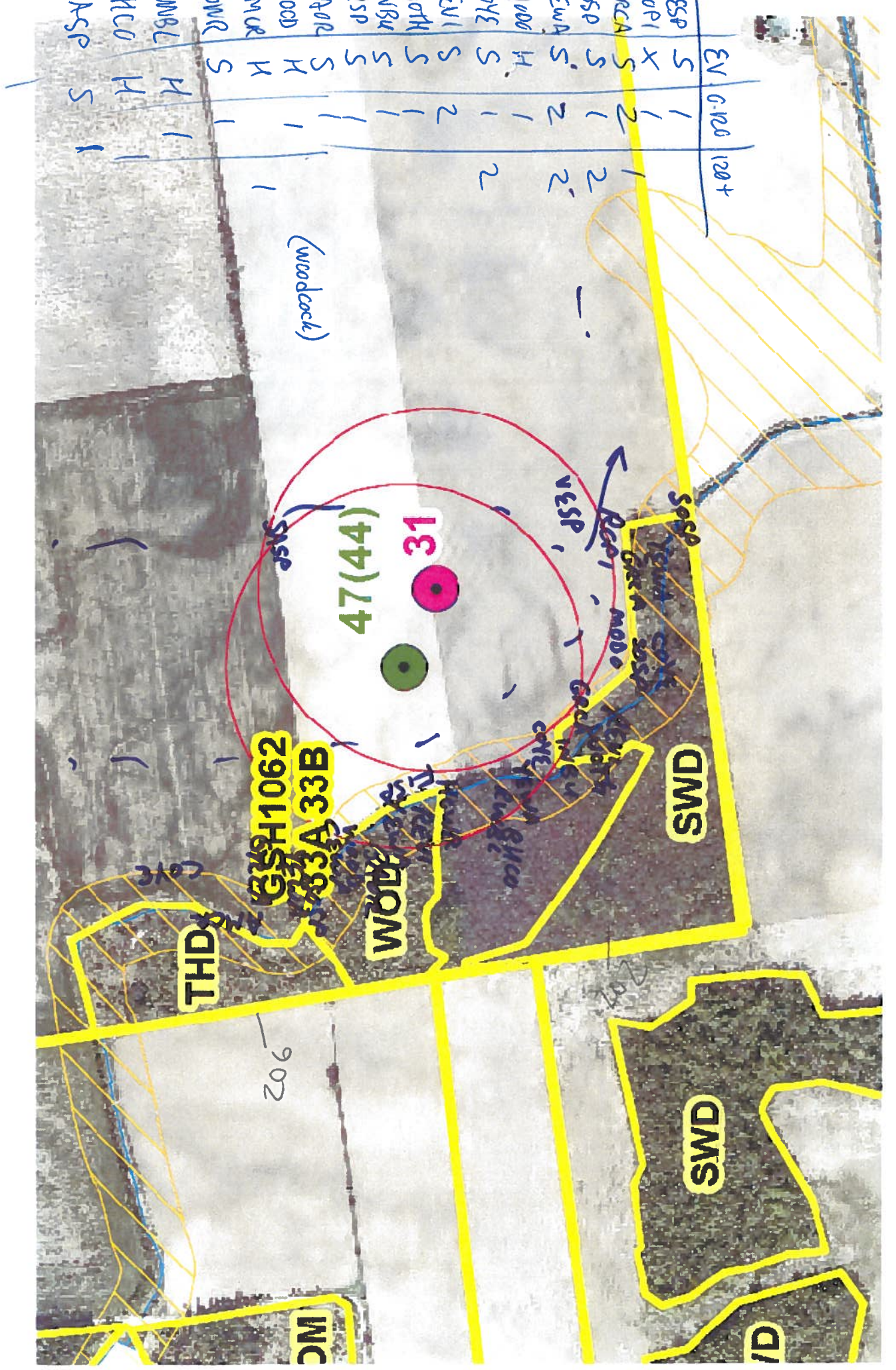
31

53M

170H

SD

K. 14 msiva
 Jan 28 - 0605, 6⁹⁰
 S-l. sunny. 20°C



NextEra Bird / Wildlife Survey Form

Study Area: Goshen Turbine Site: GE 47(44)/S-31 Feature No.: 202/2006
 Observers: R. Tymstra Time Start: 6:25 Time Stop: 6:55
 Date: July 7/11 Wind: Calm Cloud: None
 Search area/distance recorded on field map: Temp: 14°C Precip: None

Bird Species	Ev.	120 m	>120	Bird Species	Ev.	120 m	>120	Wildlife Species	Ev.	120 m	>120
Turkey Vulture				Yellow Warbler	S		1 ✓				
Red-tailed Hawk				Com. Yellowthroat	S	2 ✓					
Killdeer				Northern Cardinal							
Mourning Dove				Rose-br. Grosbeak	S		1 ✓				
Downy Woodpecker				Indigo Bunting							
Northern Flicker				Chipping Sparrow	S		1 ✓				
E. Wood Pewee				Song Sparrow	S	2 ✓	1 ✓				
Willow Flycatcher	S		1 ✓	Savannah Sparrow							
Eastern. Phoebe											
Gr. Cr. Flycatcher				Red-wing. Blackbird							
Eastern Kingbird	S	1 ✓		Common Grackle							
Tree Swallow				Br.-head. Cowbird							
Barn Swallow				Baltimore Oriole							
Blue Jay				Am. Goldfinch	S	1 ✓					
Am. Crow	H		1 ✓	Field Sparrow	S	1 ✓	1 ✓				
Bl.-cap. Chickadee				Vesper Sparrow	S	2 ✓					
White-br. Nuthatch				Horned Lark	H	1 ✓					
House Wren				Am. Redstart	S	1 ✓					
Wood Thrush				Black-b. Cuckoo	S	1 ✓					
Am. Robin	S		1 ✓								
Gray Catbird	S	2 ✓	1 ✓								
Cedar Waxwing	H		1 ✓								
E. Starling											
Warbling Vireo											
Red-eye Vireo	S	1 ✓	1 ✓								

Notes (e.g. basic description of habitat covered)

Corn/Beans / decid. woodlot
riparian creek / pasture edge

* record UTM for species of conservation concern.