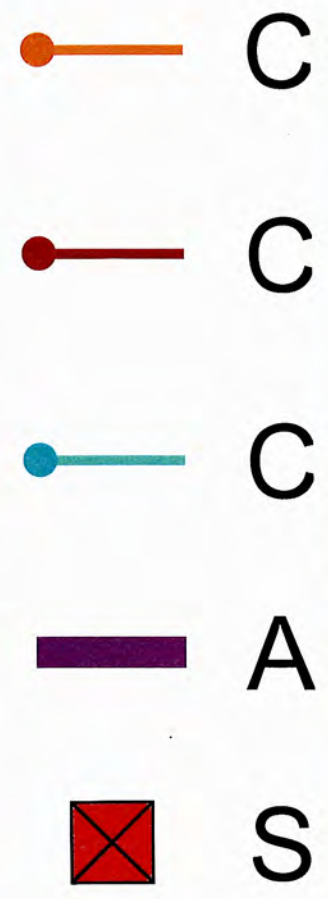
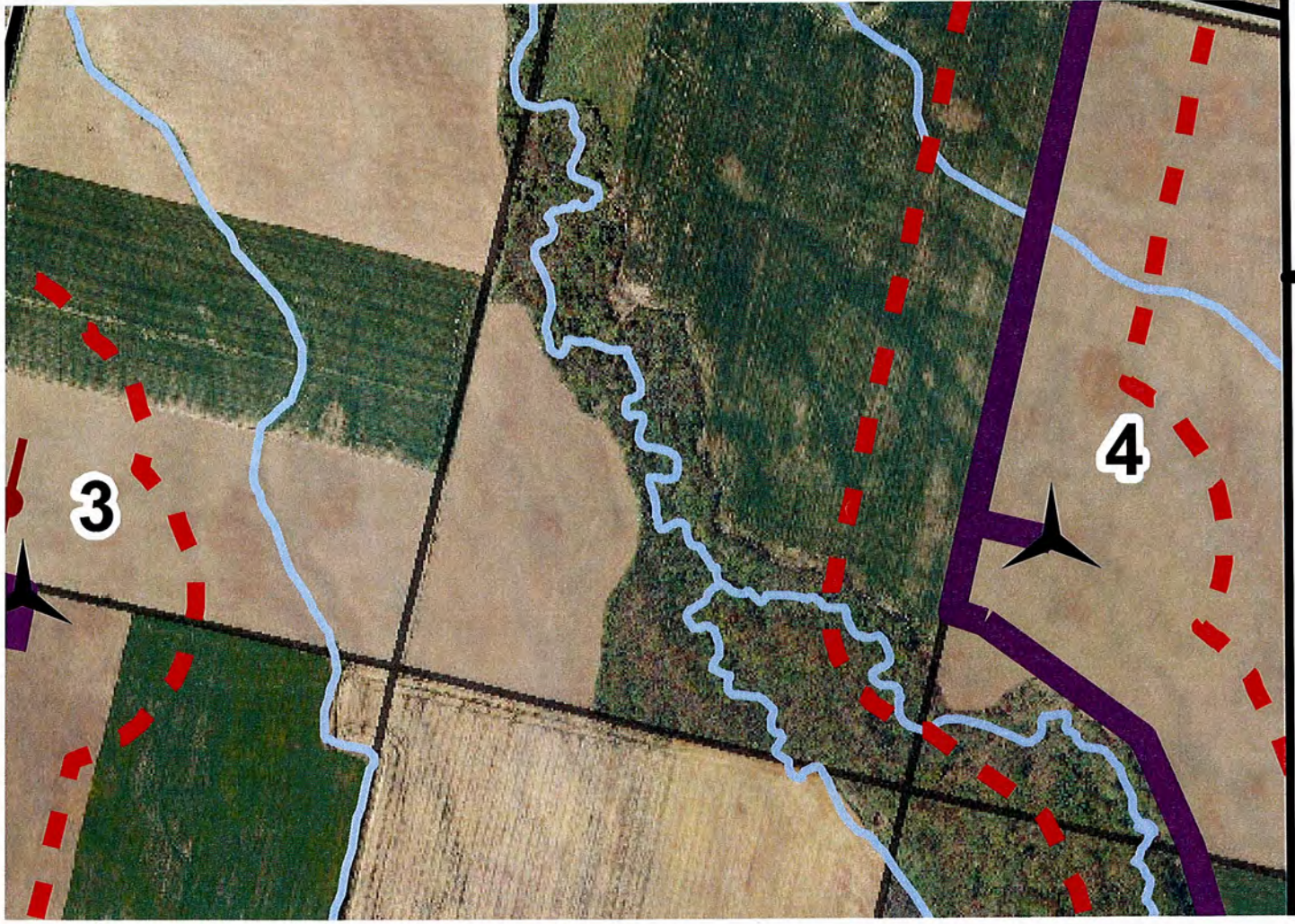


1031 - Barnish
WOD-004

- floodplain features
- creek watercourses throughout w ox bow features
- no wetland plant assemblages
- wet site but not a wetland



Wetland evaluation Map

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 1 of 4

Site: 1231 Barnish
 Polygon: W00-006
 UTM: 17T 0437617 4773543
 Date: 25 Aug 2011 Time: 13:00
 Surveyor(s): KNP JRW
 Weather: 20°C overcast, 100% cloud cover, wind speed 4 from W

Community Classification

Vegetation Type: Dry-fresh sugar maple-basswood deciduous forest
 Inclusion: open water pond 17T0437617 4773543
 Complex: Dry-fresh white pine naturalized deciduous plantation (IACMG-1)

Polygon Description

System	Substrate	Topo Feature	Community
<input checked="" type="checkbox"/> Terrestrial	Organic	Lacustrine	Talus
<input type="checkbox"/> Wetland	Mineral Soil	Riverine	Crevice/Cave
<input type="checkbox"/> Aquatic	Parent Min.	Bottomland	Alvar
	Acidic Bedrock	Terrace	Rockland
	Basic Bedrock	Valley Slope	Beach/Bar
<input checked="" type="checkbox"/> History	Carb. Bedrock	Tableland	Sand Dune
<input type="checkbox"/> Natural		Roll, Upland	Bluff
<input type="checkbox"/> Cultural		Cliff	Bog
	Site		Lake
			Pond
			River
			Stream
			Marsh
			Swamp
			Fen
			Forest
			Plantation

Cover	Open Water	Plant Form
<input type="checkbox"/> Open	Shallow Water	Plankton
<input type="checkbox"/> Shrub	<input checked="" type="checkbox"/> Surficial Dep.	Submerged
<input checked="" type="checkbox"/> Treed	Bedrock	Floating-Lvd.
		Graminoid
		Forb
		Lichen
		Bryophyte
		Deciduous
		Coniferous
		Mixed

Stand Description

Layer	HT	Cover	Species
* Super-canopy			
1 Canopy	2	4	Sugar maple > basswood > white ash > white oak
2 Sub-canopy	3	4	Sugar maple = basswood > white ash > Am Beech
3 Understorey	1/5	3	Basswood > sugar maple > Am Beech > white oak
4 Groundcover	1/4	3	White ash > herb robert > solidago sp > su

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m
 Cover Codes: 0: none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	a < 10	o 10-24	o 25-50	r > 50
Snags	r < 10	o 10-24	r 25-50	r > 50
Deadfall/Logs	o < 10	o 10-24	r 25-50	r > 50

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age	Pioneer	Young	<input checked="" type="checkbox"/> Mid-age	Mature	Old Growth
---------------	---------	-------	---	--------	------------

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 2 of 4

PLANT SPECIES LIST

Site: 1231 Barnish
 Polygon: W00-006
 UTM: 17T 0437617 4773543
 Date: 25 Aug 2011 Time: 13:00
 Surveyor(s): KNP JRW
 Weather: 20°C overcast, 100% cloud cover, wind speed 4 from W

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample	Species	Layer				Sample
	1	2	3	4			1	2	3	4	
White ash	O	O	O	O		herb robert				O	
White pine	O					wild raspberry				R	
Shoebark hickory			R			solidago sp				R	
Basswood	O	O	O			corn dock				R	
Am Beech	O	O	O			anchusa				O	
Sugar maple	O	O	O	O		virginia creeper				R	
hop hound		R				white hellebore				R	
White oak	O			R		violet sp				R	
						Juncus sp				R	
						trillium				R	
						avena sp				R	
						corn sp				R	
						yellow wood				O	
						fern sp				R	
						false Solomon's seal				R	
						aster sp				O	
						maize sp				R	
dogwood sp			O			yellow avena				O	
						wild strawberry				R	
						Zig Zag				R	
						sensitive fern				R	
						Christmas fern				O	
wood sorrel				R		wild strawberry				R	

Other Notes (Landowner Contact, General Notes, etc.)

Southeastern corner the same, some low areas that are moist. Blue jays & deer tracks Dec-2/11 pics 809-811

Wildlife Observation Form
NATURAL RESOURCE SOLUTIONS INC.

Site: Balnish 1231
 Polygon: W0D006
 UTM: 17T 0437617 4773543
 Date: 25/08/11 Time: 13:00
 Surveyor(s): RW, KNP
 Weather: overcast 24°C wind - 3 cc = 100%

Species Observed					Check for Wildlife Habitat that may be associated with an observation				
TY	Species	EV	Notes	#	TY	Species	EV	Notes	#
B	Turkey Vulture	OB		2					
B	Spallow sp	OB	Flying	1					
B	Spallow sp	OB	Flying	2					
B	Song sparrow	OB	perched	1					
H	wood frog	OB		1					

Faunal Type Codes (TY)

B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly

Evidence Codes (EV)

Breeding Birds

SH- Suitable Habitat
 SM- Singing Male
 T- Territory
 A- Anxiety Behavior
 D- Courtship Display
 N- Nest Building
 P- Pair
 V- Visiting Nest
 DD- Distraction Display
 NE- Nest with Eggs
 AE- Adult entering nest
 NU- Used nest
 FY- Fledged Young
 FS- Food/Fecal Sac

Other Wildlife

OB- Observed
 DP- Distinctive Parts
 TK- Tracks
 VO- Vocalization
 HO- House/Den
 FE- Feeding Evidence
 CA- Carcass/Bones
 FY- Eggs or young
 SC- Scat
 SI- Other Signs (Specify)

Wildlife Habitat Form
NATURAL RESOURCE SOLUTIONS INC.

Site: Balnish 1231
 Polygon: W0D006
 UTM: 17T 0437617 4773543
 Date: 25/08/11 Time: 13:00
 Surveyor(s): RW, KNP
 Weather: overcast 24°C wind 3 c.c. 100%

Wildlife Habitat (Check all that apply AND record UTM / mark on map)

Habitats and Habitat Features are independent of wildlife observations

Habitat Type	Habitat Features	
<input type="checkbox"/> Deciduous Forest	<input type="checkbox"/> Birds	<input type="checkbox"/> Snakes
<input type="checkbox"/> Mixed Forest	<input type="checkbox"/> Spring Flooded Field	<input type="checkbox"/> Burrow
<input type="checkbox"/> Coniferous Forest	<input type="checkbox"/> Stick Nest (Raptors, Herons)	<input type="checkbox"/> Fallen Rotting Log
<input type="checkbox"/> Marsh	<input type="checkbox"/> Snag (Raptors, Herons)	<input type="checkbox"/> Old Well
<input type="checkbox"/> Swamp	<input type="checkbox"/> Tree Cavity Nest (Ducks)	<input checked="" type="checkbox"/> Rock Pile/Stone Wall
<input type="checkbox"/> Bog	<input type="checkbox"/> Seep/Spring (Turkeys/Grouse)	<input type="checkbox"/> Organics Pile
<input type="checkbox"/> Fen	<input type="checkbox"/> Cliffs/Banks	<input type="checkbox"/> Log Pile
<input type="checkbox"/> Water	<input type="checkbox"/> Bats	<input type="checkbox"/> Karst
<input type="checkbox"/> (Shallow & Open)	<input type="checkbox"/> Cave Entrance	<input type="checkbox"/> Broken/Fissured Rock
<input type="checkbox"/> Meadow	<input type="checkbox"/> Mine Shaft	<input type="checkbox"/> Old Foundation
<input type="checkbox"/> Tallgrass Prairie	<input checked="" type="checkbox"/> Snag (>20cm DBH)	<input type="checkbox"/> Old Bridge/Concrete Culvert
<input type="checkbox"/> Thicket	<input type="checkbox"/> Mink/Otter/Fisher/Marten	<input type="checkbox"/> Amphibians and Turtles
<input type="checkbox"/> Savannah	<input type="checkbox"/> Snag	<input type="checkbox"/> Vernal Pool/Woodland Pond (Amphibian Breeding)
<input type="checkbox"/> Woodland	<input type="checkbox"/> Burrow	<input type="checkbox"/> Sand (Turtle Nesting)
<input type="checkbox"/> Valley	<input type="checkbox"/> Den	<input type="checkbox"/> Fine/Sandy Gravel (Turtle Nesting)
<input type="checkbox"/> (Describe Below)	<input type="checkbox"/> Tree Cavity	<input type="checkbox"/> Invertebrates
<input type="checkbox"/> Headwater Area	<input type="checkbox"/> Fallen Log	<input type="checkbox"/> Crayfish Chimney
<input type="checkbox"/> (check for Seeps/Springs)	<input type="checkbox"/> Deer/Moose	
	<input type="checkbox"/> Seep/Spring	
	<input type="checkbox"/> Mineral Lick	

For every Habitat Type or Habitat Feature, record UTM below (for each occurrence) or mark on map

Habitat Feature:	UTM	Description
<u>rock pile</u>	<u>17T 0437560</u> <u>4773731</u>	<u>photo 100-1299 snake hab</u> <u>< to log investigated C/M</u>
<u>snag >20cm DBH</u>	<u>17T 0437617</u> <u>4773543</u>	<u>large snag @ big tree</u> <u>north, 100-1300</u>

Describe Valley (depth, geomorphological traits):

Additional Details:

Photo 100-1301 - open water pond
- some smaller rotted logs in moist areas, good for salamanders

Map 2
-near
turbine
29
-SW
corner

Notify prior
to entry
1251, 1633

Bornish
or between
Pete
sebe rd
& Roddick rd
Tony &
Katherine
Hendrix
519 294-6796

Wodoo



Image © 2011 First Base Solutions
© 2011 Google

© 2010 Google

Imagery Date: 3/31/2006 2002

43°06'31.47" N 81°45'54.54" W elev 818 ft

Eye alt 4349 ft

PLANT SPECIES LIST

Site: 1231 Bormish
 Polygon: WOD-007
 UTM: 17T 0446709 4771259
 Date: 25 Aug 2011 Time: 14:45
 Surveyor(s): KNP, JRW
 Weather: 21°C overcast, cloud cover 100%, windspeed 4 from W
 light rain

Community Classification

Vegetation Type: Dry-fresh white ash hardwood deciduous forest
 Inclusion:
 Complex: FODM4-2

Polygon Description

System	Substrate	Topo Feature	Community		
<input checked="" type="checkbox"/> Terrestrial	<input type="checkbox"/> Organic	<input type="checkbox"/> Lacustrine	<input type="checkbox"/> Talus	<input type="checkbox"/> Lake	<input type="checkbox"/> Barren
<input type="checkbox"/> Wetland	<input checked="" type="checkbox"/> Mineral Soil	<input type="checkbox"/> Riverine	<input type="checkbox"/> Crevice/Cave	<input type="checkbox"/> Pond	<input type="checkbox"/> Meadow
<input type="checkbox"/> Aquatic	<input type="checkbox"/> Parent Min.	<input type="checkbox"/> Bottomland	<input type="checkbox"/> Alvar	<input type="checkbox"/> River	<input type="checkbox"/> Prairie
	<input type="checkbox"/> Acidic Bedrock	<input type="checkbox"/> Terrace	<input type="checkbox"/> Rockland	<input type="checkbox"/> Stream	<input type="checkbox"/> Thicket
History	<input type="checkbox"/> Basic Bedrock	<input type="checkbox"/> Valley Slope	<input type="checkbox"/> Beach/Bar	<input type="checkbox"/> Marsh	<input type="checkbox"/> Savannah
<input checked="" type="checkbox"/> Natural	<input type="checkbox"/> Carb. Bedrock	<input checked="" type="checkbox"/> Tableland	<input type="checkbox"/> Sand Dune	<input type="checkbox"/> Swamp	<input type="checkbox"/> Woodland
<input type="checkbox"/> Cultural		<input type="checkbox"/> Roll Upland	<input type="checkbox"/> Bluff	<input type="checkbox"/> Fen	<input checked="" type="checkbox"/> Forest
		<input type="checkbox"/> Cliff		<input type="checkbox"/> Bog	<input type="checkbox"/> Plantation

Cover	Open Water	Plant Form		
<input type="checkbox"/> Open	<input type="checkbox"/> Shallow Water	<input type="checkbox"/> Plankton	<input type="checkbox"/> Forb	<input type="checkbox"/> Coniferous
<input type="checkbox"/> Shrub	<input checked="" type="checkbox"/> Surficial Dep.	<input type="checkbox"/> Submerged	<input type="checkbox"/> Lichen	<input type="checkbox"/> Mixed
<input checked="" type="checkbox"/> Treed	<input type="checkbox"/> Bedrock	<input type="checkbox"/> Floating-Lvd.	<input type="checkbox"/> Bryophyte	
		<input type="checkbox"/> Graminoid	<input checked="" type="checkbox"/> Deciduous	

Stand Description

Layer	HT	Cover	Species
* Super-canopy			
1 Canopy	2	4	White ash > Sugar maple
2 Sub-canopy	3	3	White ash > basswood > Sugar maple > shag bark hickory
3 Understorey	1/2	3	White ash > Solidago sp > garlic mustard > aster sp
4 Groundcover	1/2	3	White ash > poison ivy > river bank grape

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m
 Cover Codes: 0: none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	O	<10	10-24	R	25-50	N	>50
Snags							
Deadfall/Logs							

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age	Pioneer	Young	Mid-age	Mature	Old Growth
			<input checked="" type="checkbox"/>		

Site: 1231 Bormish
 Polygon: WOD-007
 UTM: 17T 0446709 4771259
 Date: 25 Aug 2011 Time: 13:15
 Surveyor(s): KNP, JRW
 Weather: 21°C overcast, cloud cover 100%, windspeed 4 from W
 light rain

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer
 Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample	Species	Layer				Sample
	1	2	3	4			1	2	3	4	
E. Buckthorn						Solidago sp.					
Sugar maple						Garlic mustard					
Tsuga						Red clover					
White ash						Virginia Creeper					
Shag-bark hickory						Riverbank grape					
Green ash						Red raspberry					
White ash						Aster sp					
Basswood						Current sp					
Aspen sp.						Garlic mustard					
White ash						Poison Ivy					
Hop hound						Yellow-crowns					
Green ash						Wild strawberry					
River oak						Garlic mustard					
Silver maple						Virginia creeper					
						Current sp					
						Tough hickory					
						Red canopy grass					

Wildlife and Other Notes

- amended 05/10/2011 - changed from woodlot to forest - includes adjacent property w/o access.

Wildlife Observation Form
NATURAL RESOURCE SOLUTIONS INC.

Page 2 of 4

Site: Boca Sh 1231
 Polygon: WOD-001
 UTM: 17T 0446709 4771259
 Date: 25/08/11 Time: 14:45
 Surveyor(s): JRW, KNP
 Weather: 24°C, overcast, c.c. 100%, light rain

Species Observed					Check for Wildlife Habitat that may be associated with an observation				
TY	Species	EV	Notes	#	TY	Species	EV	Notes	#
B	Am Goldfinch	VO	flyng	2					
L	pearl crescent	OB		1					
H	Waxwing	SI	midden	1					
B	Robin	VO		1					
B	Blue Jay	VO		**					

Wildlife Habitat Form
NATURAL RESOURCE SOLUTIONS INC.

Page 4 of 4

Site: Boca Sh 1231
 Polygon: WOD-001
 UTM: 17T 0446709 4771259
 Date: 25/08/11 Time: 14:45
 Surveyor(s): JRW, KNP
 Weather: 24°C, overcast, c.c. 100%, light rain

Wildlife Habitat (Check all that apply AND record UTM / mark on map)
Habitats and Habitat Features are independent of wildlife observations

Habitat Type	Habitat Features
<input checked="" type="checkbox"/> Deciduous Forest	Birds
<input type="checkbox"/> Mixed Forest	<input type="checkbox"/> Spring Flooded Field
<input type="checkbox"/> Coniferous Forest	<input type="checkbox"/> Stick Nest (Raptors, Herons)
<input type="checkbox"/> Marsh	<input type="checkbox"/> Snag (Raptors, Herons)
<input type="checkbox"/> Swamp	<input type="checkbox"/> Tree Cavity Nest (Ducks)
<input type="checkbox"/> Bog	<input type="checkbox"/> Seep/Spring (Turkeys/Grouse)
<input type="checkbox"/> Fen	<input type="checkbox"/> Cliffs/Banks
<input type="checkbox"/> Water	Bats
<input type="checkbox"/> (Shallow & Open)	<input type="checkbox"/> Cave Entrance
<input type="checkbox"/> Meadow	<input type="checkbox"/> Mine Shaft
<input type="checkbox"/> Tallgrass Prairie	<input type="checkbox"/> Snag (>20cm DBH)
<input type="checkbox"/> Thicket	Mink/Otter/Fisher/Marten
<input type="checkbox"/> Savannah	<input type="checkbox"/> Snag
<input type="checkbox"/> Woodland	<input type="checkbox"/> Burrow
<input type="checkbox"/> Valley	<input type="checkbox"/> Den
<input type="checkbox"/> (Describe Below)	<input type="checkbox"/> Tree Cavity
<input type="checkbox"/> Headwater Area	<input type="checkbox"/> Fallen Log
<small>(check for Seeps/Springs)</small>	Deer/Moose
	<input type="checkbox"/> Seep/Spring
	<input type="checkbox"/> Mineral Lick
	Snakes
	<input type="checkbox"/> Burrow
	<input type="checkbox"/> Fallen Rotting Log
	<input type="checkbox"/> Old Well
	<input type="checkbox"/> Rock Pile/Stone Wall
	<input type="checkbox"/> Organics Pile
	<input checked="" type="checkbox"/> Log Pile
	<input type="checkbox"/> Karst
	<input type="checkbox"/> Broken/Fissured Rock
	<input type="checkbox"/> Old Foundation
	<input type="checkbox"/> Old Bridge/Concrete Culvert
	Amphibians and Turtles
	<input type="checkbox"/> Vernal Pool/Woodland Pond (Amphibian Breeding)
	<input type="checkbox"/> Sand (Turtle Nesting)
	<input type="checkbox"/> Fine/Sandy Gravel (Turtle Nesting)
	Invertebrates
	<input type="checkbox"/> Crayfish Chimney

For every Habitat Type or Habitat Feature, record UTM below (for each occurrence) or mark on map

Habitat Feature:	UTM	Description
<u>Log pile</u>	<u>17T 0446709</u> <u>4771259</u>	

Describe Valley (depth, geomorphological traits):

Faunal Type Codes (TY)
 B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly

Evidence Codes (EV)
Breeding Birds
 SH- Suitable Habitat
 SM- Singing Male
 T- Territory
 A- Anxious Behavior
 D- Courtship Display
 N- Nest Building
 P- Pair
 V- Visiting Nest
 DD- Distraction Display
 NE- Nest with Eggs
 AE-Adult entering nest
 NU- Used nest
 FY- Fledged Young
 FS- Food/Fecal Sac
Other Wildlife
 OB- Observed
 DP- Distinctive Parts
 TK- Tracks
 VO- Vocalization
 HO- House/Den
 FE- Feeding Evidence
 CA- Carcass/Bones
 FY- Eggs or young
 SC- Scat
 SI- Other Signs (Specify)

Additional Details:
 photo #: 1362 - general habitat
 A small creek runs through edge of site.

Map 9
- near turbine
45
- SE corner

1214
Bornish Dr.
& Springbank
24 hr notice
Lucio
& Anna
Facchini
519 232-
4592 ✓

1474
(may want notice, blank in sheet)
Peter & Julie
Oegrow
519 232-
4224 ✓

call to tell not on his property



TCI

Included in the Polygon

WOD-007

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 1 of 6

Site: 1231 Barnish
 Polygon: WOD-008
 UTM: 17T0444484 4774921
 Date: 26 Aug 2011 Time: 0900
 Surveyor(s): KNP JRW
 Weather: 20°C Sunny, cloud cover 15%, windspeed 0

Community Classification

Vegetation Type: Dry Fresh Sugar Maple-White Ash Deciduous Forest
 Inclusion: SWDM2-2 Green ash mineral deciduous F00MS-8
 Complex: Naturalized conifers Swamp
 Plantation (Spruce) (100m²)

Polygon Description

System	Substrate	Topo Feature	Community
<input checked="" type="checkbox"/> Terrestrial	Organic	Lacustrine	Talus
<input type="checkbox"/> Wetland	<input checked="" type="checkbox"/> Mineral Soil	Riverine	Crevise/Cave
<input type="checkbox"/> Aquatic	Parent Min.	Bottomland	Alvar
	Acidic Bedrock	Terrace	Rockland
	Basic Bedrock	Valley Slope	Beach/Bar
History	Carb. Bedrock	Tableland	Sand Dune
<input checked="" type="checkbox"/> Natural		<input checked="" type="checkbox"/> Roll. Upland	Bluff
<input type="checkbox"/> Cultural		Cliff	
Cover	Open Water	Plant Form	
<input type="checkbox"/> Open	Shallow Water	Plankton	Forb
<input type="checkbox"/> Shrub	<input checked="" type="checkbox"/> Surficial Dep.	Submerged	Lichen
<input checked="" type="checkbox"/> Treed	Bedrock	Floating-Lvd.	Bryophyte
		Graminoid	<input checked="" type="checkbox"/> Deciduous

Stand Description

Layer	HT	Cover	Species
* Super-canopy			
1 Canopy	2	4	Sugar maple > white ash > Am Beech
2 Sub-canopy	3	3	White ash > sugar maple > Am Beech
3 Understorey	1/3	3	White ash > garlic mustard > Solidago sp
4 Groundcover	1/4	3	White ash > Poisonivy > Virginia Creeper > Bay golden rod

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m

Cover Codes: 0: none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	0	< 10	10-24	25-50	R	> 50
Snags	0	< 10	10-24	25-50	R	> 50
Deadfall/Logs	A	< 10	10-24	25-50	R	> 50

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age	<input type="checkbox"/> Pioneer	<input type="checkbox"/> Young	<input checked="" type="checkbox"/> Mid-age	<input type="checkbox"/> Mature	<input type="checkbox"/> Old Growth
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NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 2 of 6

PLANT SPECIES LIST

Site: 1231 Barnish
 Polygon: WOD-008
 UTM: 17T0444484 4774921
 Date: 26 Aug 2011 Time: 0900
 Surveyor(s): KNP JRW
 Weather: 20°C sunny, cloud cover 15%, windspeed 0

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample
	1	2	3	4	
White ash	0	0	A	0	
Am Beech	0	0	0	0	
Sugar maple	A	0	0	0	
Red Beech	R	R			
Black Cherry	R	R			
White Birch	0				
Bittersweet	0				
White Elm	R	R			
Silver maple	0				
Green ash	0				
Trembling aspen	0				
Gray dogwood			R		
Yellow Birch			R		
dogwood sp			0		
willow sp.			R		
Spotted Towhee					
Wild Strawberry			0		
Long Leaf Pine			R		
Boxwood sp			R		
milkweed sp			0		
velvet leaf			0		
mullein			R		
Yellow avens			R		

Wildlife and Other Notes

Spice bush
 include property south of
 coldstream road WGIW
 and north to
 Nain Rd
 08/10/2011
 * Oct 20/11 100-0718, 0719, 0720 (photos)

Site: Bornish 1231
 Polygon: WON-008
 UTM: 17T 0444484 4774921
 Date: 26/08/11 Time: 9:00
 Surveyor(s): JRW
 Weather: 20°C, CC=10%, wind=2

Species Observed					Check for Wildlife Habitat that may be associated with an observation				
TY	Species	EV	Notes	#	TY	Species	EV	Notes	#
B	Houbling Dove	VO		2					
B	Red-eye Vireo	VO		1					
B	Am Robin	VO		1					
M	raccoon	TK		1					
B	Gray Catbird	VO		1					
L	cabbage white	OB		1					
B	Blue Jay	VO		1					
B	Am Crow	VO		1					

Faunal Type Codes (TY)

B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly

Evidence Codes (EV)

Breeding Birds

- SH- Suitable Habitat
- SM- Singing Male
- T- Territory
- A- Anxiety Behavior
- D- Courtship Display
- N- Nest Building
- P- Pair
- V- Visiting Nest
- DD- Distraction Display
- NE- Nest with Eggs
- AE-Adult entering nest
- NU- Used nest

Other Wildlife

- OB- Observed
- DP- Distinctive Parts
- TK- Tracks
- VO- Vocalization
- HO- House/Den
- FE- Feeding Evidence
- CA- Carcass/Bones
- FY- Eggs or young
- SC- Scat
- SI- Other Signs (Specify)

Fledged Young
Food/Fecal Sac

Site: Bornish 1231
 Polygon: WOD 008
 UTM: 17T 0444484 4774921
 Date: 26/08/11 Time: 9:00
 Surveyor(s): JRW
 Weather: 20°C, CC=10%, wind=2

Wildlife Habitat (Check all that apply AND record UTM / mark on map)
 Habitats and Habitat Features are independent of wildlife observations

Habitat Type	Habitat Features
<input checked="" type="checkbox"/> Deciduous Forest	Birds
<input type="checkbox"/> Mixed Forest	<input type="checkbox"/> Spring Flooded Field
<input type="checkbox"/> Coniferous Forest	<input type="checkbox"/> Stick Nest (Raptors, Herons)
<input type="checkbox"/> Marsh	<input type="checkbox"/> Snag (Raptors, Herons)
<input type="checkbox"/> Swamp	<input type="checkbox"/> Tree Cavity Nest (Ducks)
<input type="checkbox"/> Bog	<input type="checkbox"/> Seep/Spring (Turkeys/Grouse)
<input type="checkbox"/> Fen	<input type="checkbox"/> Cliffs/Banks
<input type="checkbox"/> Water	<input type="checkbox"/> Cave Entrance
(Shallow & Open)	<input type="checkbox"/> Mine Shaft
Meadow	<input checked="" type="checkbox"/> Snag (>20cm DBH)
Tallgrass Prairie	Mink/Otter/Fisher/Marten
<input checked="" type="checkbox"/> Thicket	<input type="checkbox"/> Snag
Savannah	<input type="checkbox"/> Burrow
Woodland	<input type="checkbox"/> Den
Valley	<input type="checkbox"/> Tree Cavity
(Describe Below)	<input type="checkbox"/> Fallen Log
Headwater Area	Deer/Moose
(check for Seeps/Springs)	<input type="checkbox"/> Seep/Spring
<input type="checkbox"/> Deciduous Forest	<input type="checkbox"/> Mineral Lick
<input type="checkbox"/> Thicket	
<input type="checkbox"/> Bramble	

Snakes

- Burrow
- Fallen Rotting Log
- Old Well
- Rock Pile/Stone Wall
- Organics Pile
- Log Pile
- Karst
- Broken/Fissured Rock
- Old Foundation
- Old Bridge/Concrete Culvert

Amphibians and Turtles

- Vernal Pool/Woodland Pond (Amphibian Breeding)
- Sand (Turtle Nesting)
- Fine/Sandy Gravel (Turtle Nesting)

Invertebrates

- Crayfish Chimney

For every Habitat Type or Habitat Feature, record UTM below (for each occurrence) or mark on map

Habitat Feature:	UTM	Description
Log Pile	17T 0444362 4774233	Mix of large + small somewhat rotted logs, diameter >=50
log pile	17T 0444359 4774328	large log pile / branch DLE; photos # 100-1302
snag	17T 0444279 4774226	photo #: 100-1304
Burrow/Den	17T 0444419 4774479	small mammal den

Describe Valley (depth, geomorphological traits):

- moist deciduous area w riparian zone border by bramble & thicket.

Additional Details:

- many log piles + debris on forest floor

WOD-008
1231 Barnish.
KNP, PWD

Wetland Evaluation Map



Map 7
-south
&
turbine
&

2008,
19.76
Centre Rd
between
Nairn Rd
& coldstream rd

24 hr
notice
Albert
Kennes
519 294-
6659

W00-
008



ELC
Map



NATURAL RESOURCE SOLUTIONS INC.

Aquatic, Terrestrial and Wetland Biologists

Wetland Vegetation Communities

Project Name: Barnish Project #: 1231

Observer(s): DWD, KND

Date: Sept. 30, 2011 Time (24h): 11:45

Field #: W00008 Weather: Precipitation: Light Temp (°C): 18

Map Code: Wind Speed & Direction: 3/W Cloud %: 100

Wetland Type: Swamp Site Type: Isolated Dominant Form: ---

% Open Water: 0 ELC Code: ISWDM2-2

Photos: 0603, 0604 OWES code: KS

Forms % (Circle those $\geq 25\%$) Species (dominant species, secondary species, present species)

h Yellow Birch 5% Red Maple 5% Bur Oak 5% Green Ash 35% White Elm 5% Silver Maple 15%

c ---

dc, dh, ds Yellow Birch 1%

ts Spicebush 40%

ls Red Osier Dog 1% Spicebush 10% Leatherwood 1%

gc Boneset 5% Sp. Yew Hemlock 5% Clearweed 5% Blueweed 5% Dk Green Bulrush 1% Sens. Fern 5%

ne --- Sp. Fox Eye 1% Map Sedge 10%

be ---

re ---

ff ---

f ---

su ---

m ---

Soil type: sl Organic Mineral

Rare Species (Local, Regional, Provincial): Leatherwood (? locally sig.?)
NO

Wildlife Notes:

SAR observations must also include a specific UTM location.

Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; f=floating plants; ff=free-floating plants; su=submerged plants; m=mosses

Wetland Type: S=swamp; M=marsh; B=bog; F=fen

Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated

Soil type: cl=clay/loam; sl=silt/loam; l=limestone; s=sand; hm=humic/mesic; f=fibric; g=granite Organic=>60cm depth over mineral (>10cm over bedrock) Mineral=<60cm depth over mineral

Site: 1231 Barnish
 Polygon: W00-009
 UTM: 17T 0443193 4775303
 Date: 26 Aug 2011 Time: 10:35
 Surveyor(s): KNP, JRW
 Weather: 20°C, sunny, cloud cover 20%, wind speed 2 from W

Community Classification

Vegetation Type: Dry-fresh white ash-hardwood deciduous woodland
 Inclusion: silver maple mineral deciduous woodland W00M4-2
 Complex: Swamp (SW0M3-2)

Polygon Description

System	Substrate	Topo Feature	Community
<input checked="" type="checkbox"/> Terrestrial	Organic	Lacustrine	Talus
<input type="checkbox"/> Wetland	<input checked="" type="checkbox"/> Mineral Soil	Riverine	Crevise/Cave
<input type="checkbox"/> Aquatic	Parent Min.	Bottomland	Alvar
	Acidic Bedrock	Terrace	Rockland
	Basic Bedrock	Valley Slope	Beach/Bar
History	Carb. Bedrock	<input checked="" type="checkbox"/> Tableland	Sand Dune
<input type="checkbox"/> Natural		Roll, Upland	Bluff
<input type="checkbox"/> Cultural		Cliff	
Cover	Open Water	Plant Form	
<input type="checkbox"/> Open	Shallow Water	Plankton	Forb
<input type="checkbox"/> Shrub	<input checked="" type="checkbox"/> Surficial Dep.	Submerged	Lichen
<input checked="" type="checkbox"/> Treed	Bedrock	Floating-Lvd.	Bryophyta
		Graminoid	<input checked="" type="checkbox"/> Deciduous

Stand Description

Layer	HT	Cover	Species
* Super-canopy			
1 Canopy	2	3	white ash > sugar maple
2 Sub-canopy	3	4	Basswood > white ash > Am. Beech > Shagbark hickory
3 Understorey	1/2	3	Basswood > solidago sp > Shagbark hickory
4 Groundcover	1/2	4	Poison ivy > garlic mustard > white ash

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m
 Cover Codes: 0: none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	< 10	10-24	25-50	> 50
Snags	0	R	R	N
Deadfall/Logs	0	0	R	R

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age	Pioneer	Young	Mid-age	Mature	Old Growth
			<input checked="" type="checkbox"/>		

Site: 1231 Barnish
 Polygon: W00-009
 UTM: 17T 0443193 4775303
 Date: 26 Aug 2011 Time: 10:35
 Surveyor(s): KNP, JRW
 Weather: 20°C, sunny, cloud cover 20%, wind speed 1 from W

Layers:

1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes:

R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample
	1	2	3	4	
garlic mustard				O	
Poison ivy				A	
current sp				R	
herb robert				O	
rough awens				R	
Solidago sp				O	
enchanted nightshade				R	
wild strawberry				O	
yellow awens				R	
fairy Solomon's seal				O	
Muscapple				R	
Jack in the pulpit				R	
black raspberry				O	
Zigzag goldenrod				O	

Species	Layer				Sample
	1	2	3	4	
Basswood		O	O		
White ash	O	O	R	O	
American Elm		R			
Shagbark hickory		O	R		
hop hornbeam		R			
Blue beech		R			
Am Beech		O	R		
Trembling aspen		O			
Sugar Maple	R	O	O	O	
Silver maple		O			
Red Oak		R			

Wildlife and Other Notes

map 11
west
of
turbine
5
2046
Maskett
Rd
between
Nairn Rd
& cold-
stream Rd

Notify
prior
to
entry

Charles
& Linda
Fox

519 232-
4366



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map 18 - check if north end is the same



check if
same as
WOD 009
L7 same ✓

WOD 009

5



NATURAL RESOURCE SOLUTIONS INC.

Aquatic, Terrestrial and Wetland Biologists

Wetland Vegetation Communities

Project Name: <u>Barnish</u>		Project #: <u>1231</u>	
Observer(s): <u>PWD, KNP</u>			
Date: <u>Sept 30, 2011</u>		Time (24h): <u>11:15</u>	
Field #: <u>W00009</u>	Weather: Precipitation: <u>Heavy</u>	Temp (°C): <u>16</u>	
Map Code:	Wind Speed & Direction: <u>S/W</u>	Cloud %: <u>100</u>	
Wetland Type: <u>Swamp</u>	Site Type: <u>Isolated</u>	Dominant Form: <u>Treed</u>	
% Open Water: <u>0</u>	ELC Code: <u>SW0H3-2</u>		
Photos:			
Forms % (Circle those ≥25%)		Species (dominant species, secondary species, present species)	
h <u>(Silver Maple 50%)</u>		<u>Green Ash 20%</u>	
c		<u>Basswood 10%</u>	
dc, dh, ds		<u>American Beech 1%</u>	
ts		<u>Spicebush 5%</u>	
ls		<u>White Elm 1%</u>	
gc		<u>Sensitive Fern 10%</u>	
ne		<u>Nig. Creeper 5%</u>	
be		<u>Portulaca 15%</u>	
re		<u>Sp. Jewelweed 5%</u>	
ff		<u>Strand-lod Calla 10%</u>	
f			
su			
m			
Soil type:		Organic <input type="checkbox"/> Mineral <input checked="" type="checkbox"/>	
Rare Species (Local, Regional, Provincial):		Wildlife Notes:	
SAR observations must also include a specific UTM location.			
Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; f=floating plants; ff=free-floating plants; su=submerged plants; m=mosses			
Wetland Type: S=swamp; M=marsh; B=bog; F=fen			
Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated			
Soil type: cl=clay/loam; sl=silt/loam; l=limestone; s=sand; hm=humic/mesic; f=fibric; g=granite Organic=>60cm depth over mineral (>10cm over bedrock) Mineral=<60cm depth over mineral			