Wildlife Observation Form

NATURAL RESOURCE SOLUTIONS INC.

Site: 1230 Adelaide
Polygon: WOD-013
UTM: 17T 0444746 4762954
Date: Aug 17, 2011 **Time:** 16:15
Surveyor(s): CM, KNP
Weather: 27°C, 60% cloud cover, windspeed 3 from SW

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		1						
B	mourning dove	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- Anxienty 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: 1230 Adelaide
Polygon: WOD-013
UTM: 17T 0444746 4762954
Date: Aug 17, 2011 **Time:** 16:15
Surveyor(s): CM, KNP
Weather: 27°C, 60% cloud cover, windspeed 3 from SW

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

Habitat Type
- ✓ Deciduous Forest
- ___ Mixed Forest
- ___ Coniferous Forest
- ___ Marsh
- ___ Swamp
- ___ Bog
- ___ Fen
- ___ Water (Shallow & Open)
- ___ Meadow
- ___ Tallgrass Prairie
- ___ Thicket
- ___ Savannah
- ___ Woodland
- ___ Valley (Describe Below)
- ___ Headwater Area (check for Seeps/Springs)

Habitat Features

Birds
- ___ Spring Flooded Field
- ___ Stick Nest (Raptors, Herons)
- ___ Snag (Raptors, Herons)
- ___ Tree Cavity Nest (Ducks)
- ___ Seep/Spring (Turkeys/Grouse)
- ___ Cliffs/Banks

Bats
- ___ Cave Entrance
- ___ Mine Shaft
- ___ Snag (>20cm DBH)

Mink/Otter/Fisher/Marten
- ___ Snag
- ___ Burrow
- ___ Den
- ___ Tree Cavity
- ___ Fallen Log

Deer/Moose
- ___ Seep/Spring
- ___ Mineral Lick

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

Describe Valley (depth, geomorphological traits):

Additional Details:

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Site:	1230 - Adelaide
Polygon:	WOD 014
UTM:	
Date:	Aug. 18/11
Time:	09.00
Surveyor(s):	Charlotte M Kaitlin P
Weather:	24°C 30% c.c wind 2-3 no precip.

Community Classification

Vegetation Type:	Dry-fresh Sugar maple - Basswood deciduous forest (FODM5-6)
Inclusion:	
Complex:	

Polygon Description

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

Cover			Open Water	Plant Form					
	Open		Shallow Water		Plankton		Forb		Coniferous
	Shrub	X	Surficial Dep.		Submerged		Lichen		Mixed
X	Treed		Bedrock		Floating-Lvd.		Bryophyte		
					Graminoid		Deciduous		

Stand Description

	Layer	HT	Cover	Species
*	Super-canopy	—	—	—
1	Canopy	2	2	Sugar maple >> basswood > w. elm
2	Sub-canopy	3	2	sugar maple >> basswood > w. elm
3	Understorey	4	3	Sugar maple > shrub sp > basswood > hop hornbeam
4	Groundcover	6	4	Sugar maple > virginia creeper > grass sp > red osier dogwood

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	A 10 - 24	O 25 - 50	R > 50
Snags	R < 10	R 10 - 24	R 25 - 50	N > 50
Deadfall/Logs	R < 10	R 10 - 24	N 25 - 50	N > 50

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

Community Age		Pioneer		Young	X	Mid-age		Mature		Old Growth

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

PLANT SPECIES LIST

Site:	1230 Adelaide
Polygon:	WOD 014
UTM:	
Date:	Aug. 18/11
Time:	09.00
Surveyor(s):	Charlotte M Kaitlin P
Weather:	24°C 30% c.c wind 2-3 no precip.

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

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

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Sugar Maple	A	O	O	O	
W. ash	R	R			
Hop hornbeam	R				
Am. beech	R	R	R	R	
Yellow birch	R				
Black cherry	R				
Basswood	O	O	O		
Manitoba maple	R				
W. elm	O	O	R		
Trem. Aspen		R			
Com. buckthorn			R		
Black maple		R			
grey dogwood			O		
Common apple			R		
Hawthorn			O		

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Green Ash sapling				R	
Riverbank grape				R	
Red Raspberry			R		
Virginia creeper				O	
Canada Goldenrod				O	
Barren strawberry				R	
Grass sp.				O	
Red clover				R	
Shrub sp.			O		
Violet sp.				R	
Aster sp.				R	
False Solomon's seal				R	
Poison ivy				R	
Wild geranium				R	
Common Dandelion				R	
Sedge sp.				O	
Fall meadow rue				R	
Zigzag goldenrod				R	
Garlic mustard				R	
Blue Cohosh				R	

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

photo 100-0960

Canada goose : 1030-1033 photo's

Circus : 1034-1037

Wildlife Observation Form

NATURAL RESOURCE SOLUTIONS INC.

Site:	1230 Adelaide
Polygon:	WOD-014
UTM:	17T 0441804 4757567 Elev. 287
Date:	Aug 18, 2011 **Time:** 09:00
Surveyor(s):	CM, KNP
Weather:	24°C Cloud cover 30% with haze, windspeed 2 from SW

Species Observed *Check for Wildlife Habitat that may be associated with an observation*

TY	Species	EV	Notes	#		TY	Species	EV	Notes	#
B	Crow	VO		4						
L	Monarch	OB		1						
B	Bird sp.?	VO		1						
H	Grey tree frog	VO		1						
B	Bluejay	VO		1						
L	Pearl Crescent	OB		1						
M		SR	Pic 100-1959	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- Anxienty 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:	1230 Adelaide
Polygon:	WOD-014
UTM:	17T 0441804 4757567 Elev. 287
Date:	Aug 18, 2011 **Time:** 09:00
Surveyor(s):	CM, KNP
Weather:	24°C 30% cloud cover w haze, wind speed 2 from SW

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

Habitat Type
- ___ Deciduous Forest
- ___ Mixed Forest
- ___ Coniferous Forest
- ___ Marsh
- ___ Swamp
- ___ Bog
- ___ Fen
- ___ Water (Shallow & Open)
- ___ Meadow
- ___ Tallgrass Prairie
- ___ Thicket
- ___ Savannah
- X Woodland
- ___ Valley (Describe Below)
- ___ Headwater Area (check for Seeps/Springs)

Habitat Features

Birds
- ___ Spring Flooded Field
- ___ Stick Nest (Raptors, Herons)
- ___ Snag (Raptors, Herons)
- ___ Tree Cavity Nest (Ducks)
- ___ Seep/Spring (Turkeys/Grouse)
- ___ Cliffs/Banks

Bats
- ___ Cave Entrance
- ___ Mine Shaft
- ___ Snag (>20cm DBH)

Mink/Otter/Fisher/Marten
- ___ Snag
- ___ Burrow
- ___ Den
- ___ Tree Cavity
- X Fallen Log

Deer/Moose
- ___ Seep/Spring
- ___ Mineral Lick

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
A few small snags scattered in WOD-014 – no significant habitat due to small size & lack of cavities & exfoliating bark		

Describe Valley (depth, geomorphological traits):

WOD-014 Pic # 100-0960

Additional Details:
veg, raspberry, virginia creeper, violet, herb robert, false Solomon's seal, P.I., garlic mustard, wild strawberry

trees. basswood, sugar maple, hop hornbeam, ironwood, black cherry, sugar maple, white ash, & beech

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Site:	1230- Adelaide
Polygon:	WOD 015
UTM:	17T 0440701 4757650
Date:	Aug 18/11
Time:	10:15
Surveyor(s):	Charlotte M Kaitlin P
Weather:	27°C, sunny, 15% c.c. w/haze, wind 2-3, no precip

Community Classification

Vegetation Type:	Dry-fresh Sugar Maple - Basswood deciduous forest (FODM5-6)
Inclusion:	
Complex:	

Polygon Description

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

Cover				Plant Form					
	Open		Open Water		Plankton		Forb		Coniferous
	Shrub	X	Shallow Water		Submerged		Lichen		Mixed
X	Treed		Surficial Dep.		Floating-Lvd.		Bryophyte		
			Bedrock		Graminoid	X	Deciduous		

Stand Description

	Layer	HT	Cover	Species
*	Super-canopy	—	—	—
1	Canopy	2	3	Sugar maple >> basswood > w. elm > w. ash
2	Sub-canopy	3	2	Sugar maple >> basswood > shagbark hickory > w. elm
3	Understorey	4	2	Sugar maple > w. ash > shag. hick > tall goldenrod
4	Groundcover	6	4	goldenrod sp > poison ivy > sedge sp. > s. maple

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	A 10 - 24	O 25 - 50	R > 50
Snags	O < 10	R 10 - 24	R 25 - 50	N > 50
Deadfall/Logs	O < 10	R 10 - 24	R 25 - 50	N > 50

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

Community Age		Pioneer		Young	X	Mid-age		Mature		Old Growth

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

PLANT SPECIES LIST

Site:	1230- Adelaide
Polygon:	WOD 015
UTM:	17T 0440701 4757650
Date:	Aug 18/11
Time:	10:15
Surveyor(s):	Charlotte M Kaitlin P
Weather:	27°C, sunny, 15% c.c. w/haze, wind 2-3, no precip

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

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

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Basswood	O	O	R	R	
W. Ash	O	R	O	R	
S. maple	A	A	A	D	
Hophornbeam	R	R			
Shagbark Hickory	R	O	O	R	
W. Elm	O	O	R	R	
Blue beech	R	R	R	R	
Am Beech	R	R	R		
Trembling Aspen	R	R			

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Queen Anne's lace				R	
Dandelion				R	
wild red raspberry			O		
tall Goldenrod			O		
Horseradish				R	
Garlic mustard				R	
[illegible]				R	
Wild geranium				R	
Bottom strawberry				R	
Sedge sp.				O	
[illegible]				R	
poison ivy				O	
sensitive fern				R	
[illegible]				R	
goldenrod sp.				O	
grass sp.				R	
moss sp.				O	

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

Wildlife Observation Form

NATURAL RESOURCE SOLUTIONS INC.

Site: 1230 Adelaide
Polygon: WOD-015
UTM: 17T 0440701 4757650 Elev. 247m
Date: Aug 18, 2011 **Time:** 10:15
Surveyor(s): CM, KNP
Weather: 27°C 15% cloud cover & haze, windspeed 2 from SW

Species Observed *Check for Wildlife Habitat that may be associated with an observation*

TY	Species	EV	Notes	#		TY	Species	EV	Notes	#
L	Cabbage White	OB		2						
B	Chickadee	VO		1						
B	Red-eyed vireo	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- Anxienty 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: 1230 Adelaide
Polygon: WOD-015
UTM: 17T 0440701 4757650 Elev. 247m
Date: Aug 18, 2011 **Time:** 10:15
Surveyor(s): CM, KNP
Weather: 27°C 15% cloud cover & haze, windspeed 2 from SW

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

Habitat Type
- X Deciduous Forest
- ___ Mixed Forest
- ___ Coniferous Forest
- ___ Marsh
- X Swamp
- ___ Bog
- ___ Fen
- ___ Water (Shallow & Open)
- ___ Meadow
- ___ Tallgrass Prairie
- ___ Thicket
- ___ Savannah
- ___ Woodland
- ___ Valley (Describe Below)
- ___ Headwater Area (check for Seeps/Springs)

Habitat Features

Birds
- ___ Spring Flooded Field
- ___ Stick Nest (Raptors, Herons)
- X Snag (Raptors, Herons)
- ___ Tree Cavity Nest (Ducks)
- ___ Seep/Spring (Turkeys/Grouse)
- ___ Cliffs/Banks

Bats
- ___ Cave Entrance
- ___ Mine Shaft
- X Snag (>20cm DBH)

Mink/Otter/Fisher/Marten
- ___ Snag
- ___ Burrow
- ___ Den
- ___ Tree Cavity
- ___ Fallen Log

Deer/Moose
- ___ Seep/Spring
- ___ Mineral Lick

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

Amphibians and Turtles
- X 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
Rock/wood pile	17T 0440699 4757678	2m x 4m pic #100-0961
vernal pool	pic #100-0962	~3m x 1m
snags	pic #100-0963	~25cm dbh w small cavities
snags varying in	dbh 10-25cm scattered	throughout occasional
vernal pools	scattered throughout	WOD-015 → abundant

Describe Valley (depth, geomorphological traits):

Additional Details:
Very Dense, raspberry, wild rose, garlic Mustard

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Site:	1230 Adelaide
Polygon:	WOD-016
UTM:	17T 0440352 4757517
Date:	Aug 18, 2011
Time:	11:20
Surveyor(s):	CM, KNP
Weather:	29°C cloud cover 15% wind speed 2 from SW

Community Classification

Vegetation Type:	Dry-fresh Sugar Maple - Basswood deciduous forest (FOD M5-6)
Inclusion:	
Complex:	

Polygon Description

System		Substrate		Topo Feature				Community			
X	Terrestrial		Organic		Lacustrine		Talus		Lake		Barren
?	Wetland	X	Mineral Soil		Riverine		Crevice/Cave		Pond		Meadow
	Aquatic		Parent Min.		Bottomland		Alvar		River		Prairie
			Acidic Bedrock		Terrace		Rockland		Stream		Thicket
History			Basic Bedrock		Valley Slope		Beach/Bar		Marsh		Savannah
X	Natural		Carb. Bedrock	X	Tableland		Sand Dune		Swamp		Woodland
	Cultural				Roll. Upland		Bluff		Fen	X	Forest
		Site			Cliff				Bog		Plantation
Cover			Open Water	**Plant Form**							
	Open		Shallow Water		Plankton		Forb		Coniferous		
	Shrub	X	Surficial Dep.		Submerged		Lichen		Mixed		
X	Treed		Bedrock		Floating-Lvd.		Bryophyte				
					Graminoid	X	Deciduous				

Stand Description

	Layer	HT	Cover	Species
*	Super-canopy			
1	Canopy	2	4	sugar maple > Basswood > white elm
2	Sub-canopy	3	3	Sugar maple > Basswood > hop hornbeam ironwood
3	Understorey	4/5	3	sugar maple > white elm > white ash
4	Groundcover	0/1	3	poison ivy > virginia creeper > sugar maple

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

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

Community Age		Pioneer		Young	X	Mid-age		Mature		Old Growth

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

PLANT SPECIES LIST

Site:	1230 Adelaide
Polygon:	WOD-016
UTM:	17T 0440352 4757517
Date:	Aug 18, 2011
Time:	11:20
Surveyor(s):	CM, KNP
Weather:	29°C, cloud cover 15% wind speed 3 from SW

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

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

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Basswood	R	O			
hop hornbeam ironwood	R	O			
sugar maple	O	O	R	O	
white ash	R	R	R		
white elm	R	R	R		
Am Beech	R	R			
Yellow birch		R			
Common Apple		R			
Grey dogwood			O		
Bitternut hickory		O			
Hawthorn sp.		O			
? honeysuckle					

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Poison ivy				O	
violet sp.				R	
herb geranium				R	
red raspberry				O	
garlic mustard				O	
Jack in the pulpit				R	
false solomon's seal				R	
herb robert				R	
Canada goldenrod				R	
virginia creeper				O	
Rough avens				O	
choke cherry			R		
NE. Aster				R	
Rose sp.				R	
wild ginger				R	
wild strawberry				O	
wild grape				R	

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

Drainage ditch pic #100-0964 runs N/S
-area to south included - basswood
Dominated - few sugar maple

Wildlife Observation Form

NATURAL RESOURCE SOLUTIONS INC.

Site:	1-30- [illegible]
Polygon:	WOD 016
UTM:	17T 0440352 4757517
Date:	Aug 18/11 **Time:** 11:31
Surveyor(s):	[illegible] M. Kaplin P
Weather:	28°C Sunny [illegible] 15% wind 2-3 no precip

Species Observed *Check for Wildlife Habitat that may be associated with an observation*

TY	Species	EV	Notes	#		TY	Species	EV	Notes	#
B	bird sp	SM		1						
B	Am Robin	SM		1						
B	Red. cardinal	SM		1						
L	Pearl crescent	OB	same	1						
L	Cabbage white	OB	"	1						
L	Clouded Sulphur	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- Anxienty Behavior
D- Courtship Display
N- Nest Building
P- Pair
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NE- Nest with Eggs
AE-Adult entering nest
NU- Used nest
FY- Fledged Young
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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:	1230- [illegible]
Polygon:	WOD 016
UTM:	17T 0440352 4757517
Date:	Aug 18/11 **Time:** 11:31
Surveyor(s):	[illegible] M. Kaplin P
Weather:	28°C Sunny [illegible] 15% wind 2-3 no precip

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

Habitat Type
- ✓ Deciduous Forest
- ___ Mixed Forest
- ___ Coniferous Forest
- ___ Marsh
- ___ Swamp
- ___ Bog
- ___ Fen
- ___ Water (Shallow & Open)
- ___ Meadow
- ___ Tallgrass Prairie
- ___ Thicket
- ___ Savannah
- ___ Woodland
- ___ Valley (Describe Below)
- ___ Headwater Area (check for Seeps/Springs)

Habitat Features

Birds
- ___ Spring Flooded Field
- ___ Stick Nest (Raptors, Herons)
- ___ Snag (Raptors, Herons)
- ___ Tree Cavity Nest (Ducks)
- ___ Seep/Spring (Turkeys/Grouse)
- ___ Cliffs/Banks

Bats
- ___ Cave Entrance
- ___ Mine Shaft
- ✓ Snag (>20cm DBH)

Mink/Otter/Fisher/Marten
- ___ Snag
- ___ Burrow
- ___ Den
- ___ Tree Cavity
- ___ Fallen Log

Deer/Moose
- ___ Seep/Spring
- ___ Mineral Lick

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
Snag	17T 0440352 4757517	photo 100-0963

Describe Valley (depth, geomorphological traits):

Additional Details:

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Site:	1230 Adelaide
Polygon:	WOD-017
UTM:	17T0442785 4760175
Date:	Aug 18, 2011 — Time: 13:15
Surveyor(s):	CM, KNP
Weather:	29°C, 50% cloud cover, windspeed 2 from SW

Community Classification

	Vegetation Type:	Fresh - Moist Sugar maple - Hardwood Deciduous Forest FODM6-5
X	Inclusion:	Swamp Pt# 100-0965, 100-0966 17T0442785 4760175
	Complex:	

Polygon Description

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

Cover		Plant Form		
Open	Open Water	Plankton	Forb	Coniferous
Shrub	Shallow Water	Submerged	Lichen	Mixed
X Treed	X Surficial Dep.	Floating-Lvd.	Bryophyte	
	Bedrock	Graminoid	X Deciduous	

Stand Description

	Layer	HT	Cover	Species
*	Super-canopy			
1	Canopy	2	3	Sugar maple > Basswood > Bur oak
2	Sub-canopy	3	3	Sugar maple > Basswood > hop hornbeam
3	Understorey	4/5	3	Sugar maple > American Beech > Basswood
4	Groundcover	6/7	4	Spotted jewel weed = poison ivy > zig zag golden rod = garlic mustard

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	O 10 - 24	O 25 - 50	R > 50
Snags	R < 10	O 10 - 24	O 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	X	Mid-age		Mature		Old Growth

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

PLANT SPECIES LIST

Site:	1230 Adelaide
Polygon:	WOD-017
UTM:	17T0442785 4760175
Date:	Aug 18, 2011 — Time: 13:15
Surveyor(s):	CM, KNP
Weather:	29°C, 50% cloud cover, windspeed 2 from SW

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

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

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Basswood	O	O	O		
White birch		R			
Bur oak	R				
White elm		R			
Black walnut		R			
Trembling aspen		R			
Sugar maple	O	O	O		
hop hornbeam (iron wood)		O	R		
American Beech		R	O		
Black cherry	R				
Silver maple	R				
red oak	R				

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Golden Rod sp.				R	
wild geranium				R	
riverbank grape				R	
meadow rue				R	
poison ivy				A	
Zig zag golden rod				O	
reed canary grass				R	
spotted jewel weed				A	
common reed				O	
tall golden rod				R	
enchanters nightshade				R	
rice paper grass				R	
garlic mustard				O	
Violet sp.				R	
Jack in the pulpit				R	
false solomon's seal				R	
herb robert				R	
ruhbarb				R	
red raspberry				R	
wood sorrel				R	
sensitive fern				R	
turtlehead				R	

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

WET-003 = 0.524ha

Wildlife Observation Form

NATURAL RESOURCE SOLUTIONS INC.

Site:	1230 - Adelaide
Polygon:	WOD - 017
UTM:	17T 0442785 4760175
Date:	Aug 18/11 **Time:** 13:15
Surveyor(s):	Charlotte M Kaitlin P
Weather:	29°C sunny c.f. 50% wind 2 no precip

Species Observed *Check for Wildlife Habitat that may be associated with an observation*

TY	Species	EV	Notes	#		TY	Species	EV	Notes	#
L	Cabbage white	OB		1						
L	Monarch	OB		1						
M	Deer sp.	TK		1						
H	Frog sp.	OB		11						

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- Anxienty 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:	1230 Adelaide
Polygon:	WOD 017
UTM:	17T 0442785 4760175
Date:	Aug 18/11 **Time:** 13:15
Surveyor(s):	Charlotte M Kaitlin P
Weather:	29°C sunny c.f. 50% wind 2 no precip.

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

Habitat Type
- ___ Deciduous Forest
- ___ Mixed Forest
- ___ Coniferous Forest
- ___ Marsh
- X Swamp
- ___ Bog
- ___ Fen
- ___ Water (Shallow & Open)
- ___ Meadow
- ___ Tallgrass Prairie
- ___ Thicket
- ___ Savannah
- ___ Woodland
- ___ Valley (Describe Below)
- ___ Headwater Area (check for Seeps/Springs)

Habitat Features

Birds
- ___ Spring Flooded Field
- ___ Stick Nest (Raptors, Herons)
- ___ Snag (Raptors, Herons)
- ___ Tree Cavity Nest (Ducks)
- ___ Seep/Spring (Turkeys/Grouse)
- ___ Cliffs/Banks

Bats
- ___ Cave Entrance
- ___ Mine Shaft
- X Snag (>20cm DBH)

Mink/Otter/Fisher/Marten
- ___ Snag
- ___ Burrow
- ___ Den
- ___ Tree Cavity
- ___ Fallen Log

Deer/Moose
- ___ Seep/Spring
- ___ Mineral Lick

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
- X 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
Snag	17T 0442815 4760151	photo 100-0967
Vernal pool	17T 0442823 4760173	photo 100-0968 - drainage [illegible]

Describe Valley (depth, geomorphological traits):

Additional Details:

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Site:	Adelaide 1230
Polygon:	WOD-017
UTM:	177 0442589 4760155 Elev. 277m
Date:	September 27, 2011 Time:
Surveyor(s):	KNP, HLW
Weather:	Sunny, 16°C, Cloud cover: 5%

Community Classification

Vegetation Type:	
Inclusion:	
Complex:	

Polygon Description

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

Cover		Plant Form		
	Open Water			
Open	Shallow Water	Plankton	Forb	Coniferous
Shrub	Surficial Dep.	Submerged	Lichen	Mixed
Treed	Bedrock	Floating-Lvd.	Bryophyte	
		Graminoid	Deciduous	

Stand Description

	Layer	HT	Cover	Species
*	Super-canopy			
1	Canopy			
2	Sub-canopy			
3	Understorey			
4	Groundcover			

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	< 10	10 - 24	25 - 50	> 50
Deadfall/Logs	< 10	10 - 24	25 - 50	> 50

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

Community Age	Pioneer	Young	Mid-age	Mature	Old Growth

Soils	1	2	3
Position:	a		
Aspect:	N		
%	5		
Type:	Complex		
Class:	C		
Strata: Texture	L		
Depth	16		
Strata: Texture	CL		
Depth	51		
Strata: Texture	Could not auger		
Depth	deeper		
Strata: Texture			
Depth			
Effective Texture	CL		
Surface Stoniness	0		
Surface Rockiness	0		
Depth to:			
Mottles	18		
Gley	—		
Bedrock	—		
Water table	—		
Carbonates	None		
Depth of Organics	—		
Pore Size Disc #1	—		
Pore Size Disc #2	—		
Pore Size Disc #3	—		
Moisture Regime	6		

Polygon: WOD-017

Tree Tally

Species	Tally 1	Tally 2	Tally 3
Total:			
Basal Area			
Snags			

NOTES:

Inclusion (Sedge & snags) was satured with 3-7cm of surface water so the soil was not sampled.

Soil sampling was completed in the upland community to check if it is actual a swamp polygon or just the inclusion is a wetland

* Could only auger to 51cm since substrate was very consolidated. The auger would grind the sides of the auger hole but not go down deeper

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Wetland Vegetation Communities

Project Name: Adelaide **Project #:** 1230

Observer(s): PWD, KNP

Date: Sept. 29, 2011 **Time (24h):** 14:30

Field #: WOD 017 **Weather:** Precipitation: None **Temp (°C):** 18

Map Code: Wind Speed & Direction: 3/W **Cloud %:** 75

Wetland Type: Marsh **Site Type:** Palustrine **Dominant Form:** Graminoid

% Open Water: 8 **ELC Code:** SL

Photos: 0581-0586

Forms % (Circle those ≥25%)	Species (dominant species, secondary species, present species)
h	Bur Oak <5% Red Oak 1% Black Ash <5%
c	—
dc, (dh), ds	Ash sp. 1% Oak sp. 1% Elm sp. 1%
ts	Winterberry 1% Black Willow 1%
ls	—
gc	(Reed Canary 60%) Phragmites 20% Sp. Jewelweed <5% Black Nightshade 10% Swamp Beggar-Ticks <5% Wool grass <5%
ne	Broad-lvd. Cattail 5%
be	—
re	—
ff	Lesser Duckweed 8%
f	—
su	—
m	—

Soil type: cl Organic ☐ Mineral ☒

Rare Species (Local, Regional, Provincial):
Small-flowered Agrimony in forest.

Wildlife Notes:
Woodpecker holes abundant in snags.
Meadow Vole
Crayfish chimneys

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

WET-003 = 0.524 ha

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Site:	1230 Adelaide
Polygon:	WOD-018
UTM:	17T 0445660 4760064 Elev. 352m
Date:	Aug 18, 2011 Time: 14:15
Surveyor(s):	CM, KNP
Weather:	29°C, 40% cloud cover, windspeed 2 from SW

Community Classification

Vegetation Type:	Fresh - moist Sugar maple - lowland ash deciduous forest) FODM6-1
Inclusion:	
Complex:	

Polygon Description

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

Cover		Plant Form		
Open	Open Water	Plankton	Forb	Coniferous
Shrub	Shallow Water	Submerged	Lichen	Mixed
X Treed	X Surficial Dep.	Floating-Lvd.	Bryophyte	
	Bedrock	Graminoid	X Deciduous	

Stand Description

	Layer	HT	Cover	Species
*	Super-canopy			
1	Canopy	2	4	Green ash = sugar maple > basswood
2	Sub-canopy	3	3	Green ash = sugar maple > basswood
3	Understorey	4/5	2	Green ash = sugar maple > basswood
4	Groundcover	4/5	4	wild cucumber = grass sp. > geum weed = poison ivy

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

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

Community Age		Pioneer		Young	X	Mid-age		Mature		Old Growth

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

PLANT SPECIES LIST

Site:	1230 Adelaide
Polygon:	WOD-018
UTM:	17T 0445660 4760064 Elev. 352m
Date:	Aug 18, 2011 Time: 14:15
Surveyor(s):	CM, KNP
Weather:	29°C, 40% cloud cover, windspeed 2 from SW

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

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

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Yellow birch		R			
Basswood	O	R	R		
Shagbark hickory	R		R		
White elm		R	R		
sugar maple	O	O	O		
White ash	R	R	R		
green ash	O	D	D		
Am. Beach		R			
high bush cranberry			R		

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Tall goldenrod				O	
meadow rue				R	
Poison ivy				O	
wild geranium				R	
Garlic mustard				O	
raspberry				R	
herb robert				R	
jack in the pulpit				R	
Elg Zac goldenrod				R	
jewel weed				O	
yellow avens				R	
blue cohosh				R	
wild cucumber				a	
grass sp				a	

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

Photo # 100-0969, 100-0970

Wildlife Observation Form

NATURAL RESOURCE SOLUTIONS INC.

Site:	1230 Adelaide
Polygon:	WOD-018
UTM:	17T 0445660 4160064
Date:	Aug 18/11 **Time:** 14:15
Surveyor(s):	Charlotte M Kaitlin P
Weather:	29°C, sunny, c-c 40%, wind 2-3, no precip.

Species Observed *Check for Wildlife Habitat that may be associated with an observation*

TY	Species	EV	Notes	#		TY	Species	EV	Notes	#
L	Cabbage white	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- Anxienty 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:	1230 Adelaide
Polygon:	WOD 018
UTM:	17T 0445660 4160064
Date:	Aug 18/11 **Time:** 14:15
Surveyor(s):	Charlotte M Kaitlin P
Weather:	29°C, sunny, c-c 40%, wind 2-3, no precip.

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

Habitat Type
- ___ Deciduous Forest
- ___ Mixed Forest
- ___ Coniferous Forest
- ___ Marsh
- X Swamp
- ___ Bog
- ___ Fen
- ___ Water (Shallow & Open)
- ___ Meadow
- ___ Tallgrass Prairie
- ___ Thicket
- ___ Savannah
- ___ Woodland
- ___ Valley (Describe Below)
- ___ Headwater Area (check for Seeps/Springs)

Habitat Features

Birds
- ___ Spring Flooded Field
- ___ Stick Nest (Raptors, Herons)
- ___ Snag (Raptors, Herons)
- ___ Tree Cavity Nest (Ducks)
- ___ Seep/Spring (Turkeys/Grouse)
- ___ Cliffs/Banks

Bats
- ___ Cave Entrance
- ___ Mine Shaft
- X Snag (>20cm DBH)

Mink/Otter/Fisher/Marten
- ___ Snag
- ___ Burrow
- ___ Den
- ___ Tree Cavity
- ___ Fallen Log

Deer/Moose
- ___ Seep/Spring
- ___ Mineral Lick

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
Snags	17T 0445660 4160064	Pictures 100-0971 - 100-0973

Describe Valley (depth, geomorphological traits):

Additional Details:

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Site:	Adelaide 1230
Polygon:	WOD-018
UTM:	E: 0433916 N: 4760187 Elevation: 236m
Date:	September 27/2011 Time: 11:36
Surveyor(s):	HLW, KNP
Weather:	Sunny, 20 °C, Cloud cover 15%

Community Classification

Vegetation Type:	
Inclusion:	
Complex:	

Polygon Description

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

Cover	Open Water	Plant Form		
Open	Shallow Water	Plankton	Forb	Coniferous
Shrub	Surficial Dep.	Submerged	Lichen	Mixed
Treed	Bedrock	Floating-Lvd.	Bryophyte	
		Graminoid	Deciduous	

Stand Description

	Layer	HT	Cover	Species
*	Super-canopy			
1	Canopy			
2	Sub-canopy			
3	Understorey			
4	Groundcover			

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	< 10	10 - 24	25 - 50	> 50
Deadfall/Logs	< 10	10 - 24	25 - 50	> 50

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

Community Age	Pioneer	Young	Mid-age	Mature	Old Growth

Modified ELC Community Description

Soils	1	2	3
Position:	5		
Aspect:	NA		
%	3.		
Type:	Complex		
Class:	C		

Pore pattern

4	Strata: Texture	SL		
	Depth	14		
5	Strata: Texture	CL		
	Depth	36		
5	Strata: Texture	SiCL		
	Depth	82		
	Strata: Texture			
	Depth			
	Effective Texture	SiCL		
	Surface Stoniness	0		
	Surface Rockiness	0		
	Depth to:			
	Mottles	15		
	Gley	32		
	Bedrock	NA		
	Water table	NA		
	Carbonates	NA		
	Depth of Organics	N/A		
	Pore Size Disc #1	—		
	Pore Size Disc #2	—		
	Pore Size Disc #3	—		
	Moisture Regime	6		

Polygon: WOD-018

Tree Tally

Species	Tally 1	Tally 2	Tally 3
Total:			
Basal Area			
Snags			

NOTES:

- Substrate too consolidated to auger past
- Photos taken of gley, for verification. See photos 1+2 for reference

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Site:	1230 Adelaide
Polygon:	WOD-019
UTM:	
Date:	24 Aug 2011
Time:	13:00
Surveyor(s):	KNP, JRW
Weather:	26°C, 15% cloud cover, windspeed 4 from SW

Community Classification

Vegetation Type:	Dry-fresh sugar maple-white ash deciduous forest FODM5-8
Inclusion:	
Complex:	

Polygon Description

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

Cover			Open Water	Plant Form					
	Open		Shallow Water		Plankton		Forb		Coniferous
	Shrub	X	Surficial Dep.		Submerged		Lichen		Mixed
X	Treed		Bedrock		Floating-Lvd.		Bryophyte		
					Graminoid	X	Deciduous		

Stand Description

	Layer	HT	Cover	Species
*	Super-canopy			
1	Canopy	2	4	Maple > white ash > Basswood > Am. Beech = white elm
2	Sub-canopy	3	4	Maple > white ash > Basswood > Am. Beech > white elm
3	Understorey	4/5	3	Maple > Am. Beech > white elm
4	Groundcover	6/7	4	Virginia creeper > Sugar maple > false solomon's seal

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 dbh	O	10 - 24	O	25 - 50	R	> 50
Snags	R	< 10		10 - 24	R	25 - 50	N	> 50
Deadfall/Logs	O	< 10	R	10 - 24	R	25 - 50	N	> 50

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

Community Age		Pioneer		Young	X	Mid-age		Mature		Old Growth

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

PLANT SPECIES LIST

Site:	1230 Adelaide
Polygon:	WOD-019
UTM:	
Date:	24 Aug 2011
Time:	13:00
Surveyor(s):	KNP, JRW
Weather:	26°C, 15% cloud cover, windspeed 4 from SW

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

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

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Basswood	O	O	R		
White ash	O	O	O		
Sugar maple	O	O	A	O	
Am. Beech	R	R	R		
White elm	R	R	R		
hop hornbeam (ironwood)		R			

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
wild geranium				R	
wild raspberry				R	
Poison ivy				O	
Virginia creeper				O	
false solomon's seal				O	
garlic mustard				R	
herb robert				R	
wood sorrel				R	
Solidago sp.				R	
yellow avens				R	
meadow rue				R	
Zig zag goldenrod				R	
Nodding sp. false				R	
Currant sp.				R	
rough avens				R	
trillium				R	
white baneberry				R	
blue cohosh				R	
plantain				R	
grass sp.				R	
mayapple				R	
blood root				R	

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

herb Robert
white baneberry

Wildlife Observation Form

NATURAL RESOURCE SOLUTIONS INC.

Site: 1230 Adelaide	
Polygon: 019	
UTM: 17 T	
Date: 24/08/11	**Time:** 12:00
Surveyor(s): JRW, KNP	
Weather: Sunny 26°C, cc=15%, wind=5	

Species Observed *Check for Wildlife Habitat that may be associated with an observation*

TY	Species	EV	Notes	#		TY	Species	EV	Notes	#
L	cabbage white	OB		1						
M	deer	TR		2						

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: See page 3.	
Polygon:	
UTM:	
Date:	**Time:**
Surveyor(s):	
Weather:	

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

Habitat Type
- ✓ Deciduous Forest
- ___ Mixed Forest
- ___ Coniferous Forest
- ___ Marsh
- ___ Swamp
- ___ Bog
- ___ Fen
- ___ Water (Shallow & Open)
- ___ Meadow
- ___ Tallgrass Prairie
- ___ Thicket
- ___ Savannah
- ___ Woodland
- ___ Valley (Describe Below)
- ___ Headwater Area (check for Seeps/Springs)

Habitat Features

Birds
- ___ Spring Flooded Field
- ___ Stick Nest (Raptors, Herons)
- ___ Snag (Raptors, Herons)
- ✓ Tree Cavity Nest (Ducks)
- ___ Seep/Spring (Turkeys/Grouse)
- ___ Cliffs/Banks

Bats
- ___ Cave Entrance
- ___ Mine Shaft
- ✓ Snag (>20cm DBH)

Mink/Otter/Fisher/Marten
- ___ Snag
- ___ Burrow
- ___ Den
- ___ Tree Cavity
- ___ Fallen Log

Deer/Moose
- ___ Seep/Spring
- ___ Mineral Lick

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
Snag >20cm DBH	17T 0438119 4760128	Snag w woodpecker holes.
snag " " "	17T 0438115 4760317	" " " "
" " " "	17T 0438098 4760335	" " "
large	17T 0438071 4760357	really nice cavity in basswood
Rotting log	17T 0438008 4760334	Large rotted logs

Describe Valley (depth, geomorphological traits):

Additional Details:
- Snag photo # 100-1294
- Several large decaying logs - maybe good habitat for snakes + salamanders

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Site:	1230 Adelaide
Polygon:	WOD-020 Cuddy Dr ESA (Roadside)
UTM:	17T 0440294 4764303
Date:	28 Sept 2011 Time: 14:40
Surveyor(s):	KNP, HLW
Weather:	20°C. 50% cloud cover, windspeed 4 from S

Community Classification

Vegetation Type:	Fresh-moist Manitoba Maple deciduous woodland WODM5-3
Inclusion:	
Complex:	

Polygon Description

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

Cover		Plant Form		
Open	Open Water	Plankton	Forb	Coniferous
Shrub	Shallow Water	Submerged	Lichen	Mixed
X Treed	X Surficial Dep.	Floating-Lvd.	Bryophyte	
	Bedrock	Graminoid	X Deciduous	

Stand Description

	Layer	HT	Cover	Species
*	Super-canopy			
1	Canopy	2	3	White ash = manitoba Maple > Willow sp = Silver maple
2	Sub-canopy	3	3	Manitoba maple = willow sp > Apple sp > Silver maple
3	Understorey	5	3	Canada golden rod = Aster sp > Solidago sp = N.E aster
4	Groundcover	6	3	riverbank 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	O 10 - 24	O 25 - 50	N > 50
Snags	R < 10	R 10 - 24	R 25 - 50	N > 50
Deadfall/Logs	R < 10	R 10 - 24	R 25 - 50	N > 50

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

Community Age		Pioneer		Young	X	Mid-age		Mature		Old Growth

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

PLANT SPECIES LIST

Site:	
Polygon:	See page 1
UTM:	
Date:	Time:
Surveyor(s):	
Weather:	

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

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

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample	Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Trembling aspen	R					red raspberry					
Willow sp.	O					Canada golden rod					
box wood		R				New England Aster					
White ash	O					Aster sp.					
Manitoba maple	O	O				Riverbank grape					
Apple sp.		O				Solidago sp					
Silver maple	R	R									

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

PIC # 100-0575, 100-0576

Woodland with patches of forb meadow

* Roadside ELC due to property access restrictions

Wildlife Observation Form

NATURAL RESOURCE SOLUTIONS INC.

Site:	1230 - Adelaide WF
Polygon:	WOD-020 Cuddy Dr. ESA (roadside)
UTM:	
Date:	25 Sept 2011 **Time:** 14:40
Surveyor(s):	KNP, HCW
Weather:	20°C 80% cloud cover, windspeed 4 from S

Species Observed *Check for Wildlife Habitat that may be associated with an observation*

TY	Species	EV	Notes	#		TY	Species	EV	Notes	#
	Turkey Vulture	OB		1						
	crow	VO		1						
	Grey catbird	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- Anxienty 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:	
Polygon:	See page 3
UTM:	
Date:	**Time:**
Surveyor(s):	
Weather:	

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

Habitat Type
- X Deciduous Forest
- ___ Mixed Forest
- ___ Coniferous Forest
- ___ Marsh
- ___ Swamp
- ___ Bog
- ___ Fen
- ___ Water (Shallow & Open)
- ___ Meadow
- ___ Tallgrass Prairie
- ___ Thicket
- ___ Savannah
- ___ Woodland
- ___ Valley (Describe Below)
- ___ Headwater Area (check for Seeps/Springs)

Habitat Features

Birds
- ___ Spring Flooded Field
- ___ Stick Nest (Raptors, Herons)
- ___ Snag (Raptors, Herons)
- ___ Tree Cavity Nest (Ducks)
- ___ Seep/Spring (Turkeys/Grouse)
- ___ Cliffs/Banks

Bats
- ___ Cave Entrance
- ___ Mine Shaft
- ___ Snag (>20cm DBH)

Mink/Otter/Fisher/Marten
- ___ Snag
- ___ Burrow
- ___ Den
- ___ Tree Cavity
- ___ Fallen Log

Deer/Moose
- ___ Seep/Spring
- ___ Mineral Lick

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
No visible wildlife habitat from roadside view.		

Describe Valley (depth, geomorphological traits):
Riparian valley slope. pic #100-0575

Additional Details:
* Roadside ELC. – limited perspective + observations

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Site:	Adelaide 1230
Polygon:	WOD-021
UTM:	
Date:	Sept 28, 2011 — Time: 15:10
Surveyor(s):	HLW, KNP
Weather:	Cloud cover 40%, Wind 3 from SE

Community Classification

Vegetation Type:	Fresh-Moist deciduous woodland WODM5
Inclusion:	
Complex:	

Polygon Description

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

Cover		Plant Form		
Open	Open Water	Plankton	Forb	Coniferous
Shrub	Shallow Water	Submerged	Lichen	Mixed
✓ Treed	✓ Surficial Dep.	Floating-Lvd.	Bryophyte	
	Bedrock	Graminoid	✓ Deciduous	

Stand Description

	Layer	HT	Cover	Species
*	Super-canopy			
1	Canopy	2	3	Willow sp. > Silver Maple
2	Sub-canopy	3	3	Willow sp. > Apple sp. >
3	Understorey	4/5	3	Grasses sp. > Gray dogwood
4	Groundcover	5/6	3	Grasses sp. > Goldenrod sp. >

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	O 10 - 24	O 25 - 50	N > 50
Snags	N < 10	O 10 - 24	N 25 - 50	N > 50
Deadfall/Logs	N < 10	N 10 - 24	N 25 - 50	N > 50

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

Community Age		Pioneer		Young	✓	Mid-age		Mature		Old Growth

NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

PLANT SPECIES LIST

Site:	Adelaide 1230
Polygon:	WOD-021
UTM:	
Date:	September 28, 2011 — Time: 15:10
Surveyor(s):	HLW, KNP
Weather:	Cloud cover 40%, wind 3 from SE

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

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

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
Willow sp.			A	A	
Hawthorn sp.			O		
Trembling Aspen				O	
Gray Dogwood		A			
Silver Maple			O	O	
White Ash			O		
Sugar Maple				R	
Apple sp.		O	A		

Species	Layer 1	Layer 2	Layer 3	Layer 4	Sample
New England Aster		O			
Goldenrod sp.	O	O			
Red raspberry		O			
Riverbank Grape	O	O			
Cucumber Vine	O	O			
Grasses sp.	A	A			
Sedge sp.	O	O			
Common Cattail		R			
Tansel		O			

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

*Roadside ELC due to site access restrictions

Wildlife Observation Form

NATURAL RESOURCE SOLUTIONS INC.

Site:	Adelaide 1230
Polygon:	WUN-021
UTM:	
Date:	September 28, 2011 **Time:** 15:10
Surveyor(s):	HLW, KNP
Weather:	Cloud cover 40%, wind 3 from SE, 10°C

Species Observed *Check for Wildlife Habitat that may be associated with an observation*

TY	Species	EV	Notes	#		TY	Species	EV	Notes	#
B	Tennessee Warbler	SM		2						

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- Anxienty 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:	Adelaide 1230
Polygon:	WUN-021
UTM:	
Date:	September 28, 2011 **Time:** 15:10
Surveyor(s):	HLW, KNP
Weather:	Cloud cover 40%, wind 3 from SE

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

Habitat Type
- ___ Deciduous Forest
- ___ Mixed Forest
- ___ Coniferous Forest
- ___ Marsh
- ___ Swamp
- ___ Bog
- ___ Fen
- ___ Water (Shallow & Open)
- ___ Meadow
- ___ Tallgrass Prairie
- ___ Thicket
- ___ Savannah
- ✓ Woodland
- ___ Valley (Describe Below)
- ___ Headwater Area (check for Seeps/Springs)

Habitat Features

Birds
- ___ Spring Flooded Field
- ___ Stick Nest (Raptors, Herons)
- ___ Snag (Raptors, Herons)
- ___ Tree Cavity Nest (Ducks)
- ___ Seep/Spring (Turkeys/Grouse)
- ___ Cliffs/Banks

Bats
- ___ Cave Entrance
- ___ Mine Shaft
- ___ Snag (>20cm DBH)

Mink/Otter/Fisher/Marten
- ___ Snag
- ___ Burrow
- ___ Den
- ___ Tree Cavity
- ___ Fallen Log

Deer/Moose
- ___ Seep/Spring
- ___ Mineral Lick

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

Describe Valley (depth, geomorphological traits):

Additional Details:

* Roadside observations due to site access restrictions