















3.3.1.2 Designation Changes to Previously Identified Wildlife Habitat Features

The following changes to the designation of candidate Significant Wildlife Habitat and Generalized Candidate Significant Wildlife Habitats described in the approved NHA and EIS were made where distances from Project infrastructure to wildlife habitat Features changed as a result of the proposed Project Location modifications (refer to **Table 1**):

- Generalized Candidate Significant Wildlife Habitat for Amphibian Woodland Breeding in Natural Area
 173 was changed to candidate Significant Wildlife Habitat Feature AWO-22 because it is within 120 m of a proposed access road as a result of Modification C1 (refer to Figure 4.3);
- Candidate Significant Amphibian Woodland Breeding Habitat Feature AWO-16 in Natural Area 250 was changed to Generalized Candidate Significant Wildlife Habitat because it is more than 120 m away from a proposed access road as a result of Modification B3 (refer to Figure 4.2);
- Candidate Significant Amphibian Woodland Breeding Habitat Feature AWO-20 in Natural Area 172 was changed to Generalized Candidate Significant Wildlife Habitat because it is more than 120 m away from a proposed access road as a result of Modification C1 (refer to Figure 4.3);
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern and Redheaded Woodpecker in Natural Area 215 were changed to candidate Significant Wildlife Habitat Features SCP-26 and RHW-05, respectively, where vegetation removal is proposed in a CUW1q community as a result of Modification D10 (refer to Figure 4.4);
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern in Natural Area 252 was changed to candidate Significant Wildlife Habitat Feature SCP-27 where vegetation removal is proposed in a CUM1-1 community as a result of Modification E5 (refer to Figure 4.5);
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern in Natural Area 90 was changed to candidate Significant Wildlife Habitat Features SCP-28, SCP-29 and SCP-30 where vegetation removal is proposed in CUM1-1 communities along the Ausable River crossing as a result of Modification E6 (refer to Figure 4.5);
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern and Redheaded Woodpecker in Natural Area 341 was changed to candidate Significant Wildlife Habitat Features SCP-31, SCP-33 and RHW-06, respectively, where vegetation removal is proposed in CUM1-1 and CUW1m communities as a result of Modification K7 (refer to Figure 4.8); and
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern in Natural
 Area 344 was changed to candidate Significant Wildlife Habitat Feature SCP-32 where vegetation
 removal is proposed in a CUM1-1 community as a result of Modification K8 (refer to Figure 4.8).

These Features were carried forward to the Evaluation of Significance of this NHA Addendum to ensure that any potential effects of the modified Project components are addressed through the application of appropriate mitigation measures, if required.

Although now within 120 m of an access road as a result of Modification G5, the Generalized Candidate Turtle Wintering Area in Natural Area 516 was no longer considered to be suitable habitat based on the results of site investigations conducted in support of this NHA Addendum (refer to **Table 6**). As well, Generalized Candidate Significant Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat previously identified in the approved NHA and EIS within a cultural thicket (CUT1-4) in Natural Area 290 no longer exist because the cultural thicket has since been cleared by the landowner. Therefore, these Features are not considered further in this NHA Addendum.

Minimum distances from the following Features to the Project Location changed as a result of the proposed Project Location modifications. However, these changes to minimum distances do not require changes to the designation of candidate Significant Wildlife Habitat and Generalized Candidate Significant Wildlife Habitats described in the approved NHA and EIS:

- Candidate Significant Amphibian Movement Corridor Feature AMC-01: The distance from this Feature to the nearest access road decreased from 45 m to 106 m as a result of Modification B3;
- Candidate Significant Amphibian Woodland Breeding Habitat Feature AWO-04: The distance from this Features to an access road decreased from 35 m to 9 m (Modification G2);
- Candidate Significant Bat Maternity Colony Feature BMA-097: The distance from this Feature to the
 nearest Project Infrastructure (crane path and collection line) increased from 20 m to 22 m from turbine
 blade as a result of Modification G4; however, distance from turbine blade as reported in the approved
 NHA and EIS did not change (i.e., remains within 22 m);
- Generalized Candidate Significant Bat Maternity Colony Feature in Natural Area 173;
- Generalized Candidate Significant Turtle Wintering Area Features in Natural Areas 243 and 249;
- Generalized Candidate Significant Mature Forest Stand Feature in Natural Area 102;
- Generalized Candidate Significant Turtle Nesting Habitat Feature in Natural Area 249;
- Generalized Candidate Significant Amphibian Wetland Breeding Habitat Feature in Natural Area 249;
- Generalized Candidate Significant Plant Species of Conservation Concern Habitat Features in Natural Areas 97, 102, 173, 167 and 249; and
- Generalized Candidate Significant Red-headed Woodpecker Habitat Features in Natural Areas 97 and 102.

As a result of the proposed Project Location modifications, the following previously identified Features are no longer within 120 m of the Project Location (refer to **Table 1**):

- Candidate Significant Turtle Wintering Area Feature TWH-04 in Natural Area 250 as a result of Modification B3:
- Generalized Candidate Significant Marsh Bird Breeding Habitat in Natural Area 249 as a result of Modification B3;
- Candidate Significant Turtle Nesting Habitat Feature TNH-02 in Natural Area 298 as a result of Modification J2;
- Generalized Candidate Plant Species of Conservation Concern Habitat and Generalized Candidate Red-headed Woodpecker Habitat in Natural Area 285 as a result of Modification A3;
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern and Redheaded Woodpecker, and Bat Maternity Colony in Natural Area 286 as a result of Modification A7;
- Generalized Candidate Plant Species of Conservation Concern Habitat and Generalized Candidate Red-headed Woodpecker Habitat in Natural Area 291 as a result of Modification A7;
- Terrestrial Waterfowl (Tundra Swan) Stopover and Staging Area Feature WSST-31 as a result of Modification A7; and
- Bat Maternity Colony Feature BMA-297 and Generalized Candidate Plant Species of Conservation Concern Habitat in Natural Area 297 as a result of Modification J2.

3.3.2 Areas of Natural and Scientific Interest (ANSIs)

The minimum distance from the Project Location to the Provincially Significant Ausable River Valley Life Science ANSI was reduced to 0 m (transmission line in Feature) as a result of Modification E6. Vegetation removal is proposed in CUM1-1 communities within the Thomson Line and Elginfield Road right-of-way, which is within the boundaries of this Feature as mapped by MNR. The descriptions of the attributes, composition and function of this ANSI did not change from the approved NHA and EIS and therefore are not repeated here. This feature was carried forward to the EIS of this NHA Addendum to ensure that any potential effects of the modified Project components are addressed through the application of appropriate mitigation measures, if required.

3.3.3 Minimum Distances from Natural Features to Project Location

The proposed Project Location modifications have resulted in changes to the minimum distance to Project Location for the following Features (**Table 7**). Minimum distances to Features not listed in the table below are the same as reported in the approved NHA and EIS. Where minimum distances from candidate Significant Wildlife Habitat Features to specific Project infrastructure requiring an Evaluation of Significance (as per Appendix D of the Natural Heritage Assessment Guide for Renewable Energy Projects; MNR, 2012) changed, these distances are also provided in the table below.

Table 7. Updated Minimum Distances Between the Project Location and Natural Features

Modification			Natural	Minimum Distance from	n Project Location (m)
ID	Feature Type	Feature ID	Area(s)	Distance Reported in Approved NHA and EIS (m)	Distance Corresponding to Proposed Modifications (m)
A 1	Wetland	WET-048	217, 285,	73	61
			286, 290	(turbine construction disturbance area)	(turbine construction disturbance area)
	Rare Vegetation Community	RVC-05	290	>120	24
				(not included in approved NHA and EIS)	(access road and collection line)
	Insect Species of Conservation Concern Habitat;	Generalized	290	>120	17
	Plant Species of Conservation Concern Habitat; Red- headed Woodpecker Habitat	Candidate SWH		(not included in approved NHA and EIS)	(access road and collection line)
A2	Plant Species of Conservation Concern Habitat	Generalized	290	>0.1	Not applicable ³
		Candidate SWH		(collection line)	
	Habitat for Red-headed Woodpecker	Generalized	290	>0.1	Not applicable ³
		Candidate SWH		(collection line)	
A3	Woodland	WOD-262	285	>0.1	>120
				(access road)	(all infrastructure)
	Plant Species of Conservation Concern Habitat; Red-	Generalized	285	>0.1	>120
	headed Woodpecker Habitat	Candidate SWH		(access road)	(all infrastructure)
A7	Woodland	WOD-273	291	3	>120
				(collection line)	(all infrastructure)
	Woodland	WOD-267	286	12	>120
				(collection line)	(all infrastructure)
	Waterfowl Stopover and Staging Areas (Terrestrial)	WSST-31	Not	0	>120
			applicable	(turbine construction disturbance area and collection line in Feature)	(all infrastructure)
	Plant Species of Conservation Concern Habitat; Red-	Generalized	291	3	>120
	headed Woodpecker Habitat	Candidate SWH		(collection line)	(all infrastructure)
	Bat Maternity Colony; Plant Species of Conservation	Generalized	286	12	>120
	Concern Habitat; Red-headed Woodpecker Habitat	Candidate SWH		(collection line)	(all infrastructure)
B2	Rare Vegetation Community	RVC-02	243	27	>0.1
				(access road)	(collection line)
	Turtle Wintering Area	Generalized	243	95	44
		Candidate SWH		(collection line)	(collection line)
	Plant Species of Conservation Concern Habitat; Red-	Generalized	233	>120	>0.1
	headed Woodpecker Habitat	Candidate SWH		(not included in the approved NHA and EIS)	(collection line)

^{3.} Generalized Candidate Significant Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat previously identified in the approved NHA and EIS within a cultural thicket (CUT1-4) in Natural Area 290 no longer exist because the cultural thicket has since been cleared by the landowner.

Table 7. Updated Minimum Distances Between the Project Location and Natural Features

Modification			Natural	Minimum Distance from	m Project Location (m)
ID	Feature Type	Feature ID	Area(s)	Distance Reported in Approved NHA and EIS (m)	Distance Corresponding to Proposed Modifications (m)
В3	Amphibian Movement Corridor	AMC-01	250, 249	>0.1	>0.1
				(collection line) (45 m from access road)	(collection line) (106 m from access road)
	Amphibian Woodland Breeding Habitat	AWO-16	250	>0.1 (collection line)	>0.1 (collection line)
	Turtle Wintering Area	TWH-04	250	(1 from access road) 44 (access road)	(>120 from access road) >120 (all infrastructure)
	Turtle Wintering Area, Amphibian Wetland Breeding Habitat, Turtle Nesting Habitat	Generalized Candidate SWH	249	>0.1 (collection line)	77 (collection line)
	Plant Species of Conservation Concern Habitat	Generalized Candidate SWH	249	>0.1 (collection line)	16 (collection line)
	Marsh Bird Breeding Habitat	Generalized Candidate SWH	249	>0.1 (collection line)	>120 (all infrastructure)
C1	Woodland	WOD-192	173	5 (substation)	>0.1 (access road)
	Bat Maternity Colony; Plant Species of Conservation Concern Habitat	Generalized Candidate SWH	173	5 (substation)	>0.1 (access road)
	Amphibian Woodland Breeding Habitat	AWO-22	173	5 (substation) (>120 from access road)	>0.1 (access road)
	Amphibian Woodland Breeding Habitat	AWO-20	172	>0.1 (collection line) (109 m from access road)	>0.1 (collection line) (>120 m from access road)
	Plant Species of Conservation Concern Habitat	Generalized Candidate SWH	172	>120 (not included in the approved NHA and EIS)	>0.1 (collection line)
D3	Wetland	WET-062	143, 167	56 (turbine blade)	50 (access road)
	Plant Species of Conservation Concern Habitat	Generalized Candidate SWH	167	56 (turbine blade)	50 (access road)
D4	Red-headed Woodpecker Habitat; Plant Species of Conservation Concern Habitat	Generalized Candidate SWH	145	>120 (not included in the approved NHA and EIS)	34 (turbine construction disturbance area)
D10	Woodland	WOD-201	215	>0.1 (transmission line)	0 (transmission line in feature)
	Plant Species of Conservation Concern Habitat	SCP-26	215	>0.1 (transmission line)	0 (transmission line in feature)
	Red-headed Woodpecker Habitat	RHW-05	215	>0.1 (transmission line)	0 (transmission line in feature)

Table 7. Updated Minimum Distances Between the Project Location and Natural Features

Modification			Natural	Minimum Distance from	Project Location (m)
ID	Feature Type	Feature ID	Area(s)	Distance Reported in Approved NHA and EIS (m)	Distance Corresponding to Proposed Modifications (m)
E5	Plant Species of Conservation Concern	SCP-27	252	>0.1 (transmission line)	0 (transmission line in feature)
E6	Plant Species of Conservation Concern	SCP-28	90	>0.1 (transmission line)	0 (transmission line in feature)
	Plant Species of Conservation Concern	SCP-29	90	>0.1 (transmission line)	0 (transmission line in feature)
	Plant Species of Conservation Concern	SCP-30	90	>0.1 (transmission line)	0 (transmission line in feature)
	Life Science Area of Natural and Scientific Interest (ANSI)	Ausable River Valley ANSI	90	>0.1 (transmission line)	0 (transmission line in feature)
	Wetland	WET-050	90	>0.1 (transmission line)	0 (transmission line in feature)
F2	Woodland	WOD-111	117, 383	>120 (not included in the approved NHA and EIS)	41 (access road)
	Plant Species of Conservation Concern Habitat	Generalized Candidate SWH	117	>120 (not included in the approved NHA and EIS)	66 (access road and collection line)
	Plant Species of Conservation Concern Habitat; Red- headed Woodpecker Habitat	Generalized Candidate SWH	383	>120 (not included in the approved NHA and EIS)	41 (access road and collection line)
F3	Woodland	WOD-097	115, 116, 118, 119, 566	>120 (not included in the approved NHA and EIS)	>0.1 (access road)
	Reptile Hibernacula	RH-05	118	>120 (not included in the approved NHA and EIS)	5 (access road and collection line)
	Plant Species of Conservation Concern Habitat; Red- headed Woodpecker Habitat; Bat Maternity Colony	Generalized Candidate SWH	118, 119	>120 (not included in the approved NHA and EIS)	>0.1 (access road and collection line)
G2	Woodland	WOD-110	102	17 (turbine construction disturbance area)	9 (access road and collection line)
	Wetland	WET-063	102	55 (turbine construction disturbance area)	20 (access road and collection line)
	Amphibian Woodland Breeding Habitat	AWO-04	102	17 (turbine construction disturbance area) (35 m from access road)	9 (access road and collection line)
	Mature Forest Stand; Plant Species of Conservation Concern Habitat; Red-headed Woodpecker Habitat	Generalized Candidate SWH	102	17 (turbine construction disturbance area)	9 (access road and collection line)
G4	Woodland	WOD-084	97	20 (crane path and collection line)	22 (turbine blade)
	Wetland	WET-025	97	20 (crane path and collection line)	22 (turbine blade)
	Plant Species of Conservation Concern Habitat; Red- headed Woodpecker Habitat	Generalized Candidate SWH	97	20 (crane path and collection line)	22 (turbine blade)

Table 7. Updated Minimum Distances Between the Project Location and Natural Features

Modification			Natural	Minimum Distance fror	n Project Location (m)	
ID	Feature Type	Feature ID	Area(s)	Distance Reported in Approved NHA and EIS (m)	Distance Corresponding to Proposed Modifications (m)	
G5	Turtle Wintering Area⁴	Generalized Candidate SWH	516	60 (collection line) (>120 m from access road)	1 (access road and collection line)	
J2	Wetland	WET-046	298, 297, 295	29 (turbine construction disturbance area)	>120 (all infrastructure)	
	Turtle Nesting Habitat	TNH-02	298	23 (access road)	>120 (all infrastructure)	
	Plant Species of Conservation Concern	Generalized Candidate SWH	298	>120 (not included in the approved NHA and EIS)	73 (turbine construction disturbance area)	
-	Woodland	WOD-261	297	29 (turbine construction disturbance area)	>120 (all infrastructure)	
-	Bat Maternity Colony	BMA-297	297	29 (turbine construction disturbance area) (34 m from turbine blade)	>120 (all infrastructure)	
	Plant Species of Conservation Concern Habitat	Generalized Candidate SWH	297	29 (turbine construction disturbance area)	>120 (all infrastructure)	
J3	Woodland	WOD-265	293	>120 (not included in the approved NHA and EIS)	30 (turbine construction disturbance area)	
	Red-headed Woodpecker Habitat, Plant Species of Conservation Concern Habitat	Generalized Candidate SWH	293	>120 (not included in the approved NHA and EIS)	30 (turbine construction disturbance area)	
J4	Wetland	WET-044	214	>0.1 (collection line)	41 (turbine construction disturbance area)	
K1	Plant Species of Conservation Concern Habitat	SCP-24	90	Not applicable (not described in approved NHA and EIS)	0 (transmission line in feature)	
K5	Woodland	WOD-181	342	>0.1 (transmission line)	0 (transmission line in feature)	
K6	Plant Species of Conservation Concern Habitat	SCP-25	340	Not applicable (not described in approved NHA and EIS)	0 (transmission line in feature)	
K7	Woodland	WOD-175	341	>0.1 (transmission line)	0 (transmission line in feature)	
	Plant Species of Conservation Concern Habitat	SCP-31	341	>0.1 (transmission line)	0 (transmission line in feature)	
	Plant Species of Conservation Concern Habitat	SCP-33	341	>0.1 (transmission line)	0 (transmission line in feature)	
-	Red-headed Woodpecker Habitat	RHW-06	341	>0.1 (transmission line)	0 (transmission line in feature)	
K8	Plant Species of Conservation Concern Habitat	SCP-32	344	>0.1 (transmission line)	(transmission line in feature)	

^{4.} Generalized Candidate Turtle Wintering Area Feature previously identified in Natural Area 516 was considered not to be suitable habitat based on site investigations conducted for this NHA Amendment.

4. Amendments to the Evaluation of Significance

4.1 Methods

4.1.1 Wetlands

Two wetland Features (WET-026 and WET-048) were carried forward to the Evaluation of Significance (refer to **Figure 2** for locations), as the changes to attributes and composition of these Features required a new Evaluation of Significance. As in the approved NHA and EIS, no development is proposed within wetland Features; therefore, wetland Features located within the 120 m Area of Investigation were treated as Provincially Significant and assessed using the protocol described in Appendix C of the Natural Heritage Assessment Guide for Renewable Energy Projects (MNR, 2012). Consequently, no changes are required to the methods as described in the approved NHA and EIS. This evaluation was completed by OWES certified Biologists, Rob Aitken and Jessica Piette (refer to Appendix E of the approved NHA and EIS for qualifications). Field notes are provided in **Appendix B**.

4.1.2 Woodlands

Woodland Features WOD-097, WOD-111, WOD-263, WOD-265 and WOD-277 were re-evaluated based on field data collected during site investigations conducted in support of this NHA Addendum, following the methods described in the approved NHA and EIS. Consequently, no changes are required to the methods as described in the approved NHA and EIS.

4.1.3 Wildlife Habitat

Bat Maternity Colonies

Bat Maternity Colony Feature BMA-297 is no longer within the 120 m Area of Investigation as a result of Modification J2. Consequently, pre-construction Evaluation of Significance surveys are no longer required for this Feature.

Reptile Hibernacula

An Evaluation of Significance will be conducted for candidate Reptile Hibernaculum RH-05 using the methods described for this Significant Wildlife Habitat type in the approved NHA and EIS.

Turtle Wintering Areas

Evaluation of Significance studies for Turtle Wintering Areas within the 120 m Area of Investigation were completed according to the methods described for this Significant Wildlife Habitat type in the approved NHA and EIS.

Rare Vegetation Community

Rare Vegetation Community Feature RVC-05 consists of a Fresh-Moist Black Walnut Lowland Deciduous Forest Type (FOD7-4) vegetation community, a rare forest type with a provincial ranking of S2S3. No additional field studies are required to evaluate the significance of this rare vegetation community.

Turtle Nesting Habitat

Turtle Nesting Habitat Feature TNH-02 is no longer within the 120 m Area of Investigation as a result of Modification J2. Consequently, pre-construction Evaluation of Significance surveys are no longer required for this Feature.

Amphibian Woodland Breeding Habitat

An Evaluation of Significance will be conducted for Candidate Significant Amphibian Woodland Breeding Habitat Feature AWO-22 using the methods described for this Significant Wildlife Habitat type in the approved NHA and EIS.

The designation of amphibian woodland breeding habitat Features AWO-16 and AWO-20 changed from candidate Significant Wildlife Habitat to Generalized Candidate Significant Wildlife Habitat as a result of Modifications B3 and C1, respectively. Consequently, pre-construction Evaluation of Significance surveys are no longer required for these Features.

Plant Species of Conservation Concern Habitat

Evaluation of Significance studies were conducted within ten Candidate Significant Plant Species of Conservation Concern Habitat Features (SCP-24, SCP-25, SCP-26, SCP-27, SCP-28, SCP-29, SCP-30, SCP-31, SCP-32 and SCP-33) following the methods described for this Significant Wildlife Habitat type in the approved NHA and EIS.

Red-headed Woodpecker Habitat

Evaluation of Significance studies were conducted for two Candidate Significant Red-headed Woodpecker Habitat Features (RHW-05 and RHW-06) following the methods described for this Significant Wildlife Habitat type in the approved NHA and EIS.

4.2 Results

4.2.1 Wetlands

The results of the wetland evaluations completed or revised in support of this NHA Addendum are documented in **Table 8**. Wetland Features WET-048 and WET-026 are considered to be riverine and palustrine, and are comprised of swamp and marsh habitat communities (refer to **Figure 3** for locations). Both wetland Features were treated as Provincially Significant and thus were carried forward to the EIS of this NHA Addendum.

4.2.2 Woodlands

The results of the woodland evaluations completed or revised in support of this NHA Addendum are documented in **Table 9**. New evaluations were completed for woodland Features WOD-097, WOD-111 and WOD-265 (refer to **Figure 3** for locations) in support of this NHA Addendum and are presented in **Table 9**. No changes to the Evaluation of Significance are required for Significant Woodland Features WOD-263 and WOD-277 as a result of site investigation conducted in support of this NHA Addendum (these evaluations are presented in the approved NHA and EIS and are not reproduced here).

Woodland Features WOD-097, WOD-111 and WOD-265 were considered significant based on meeting at least one of the criteria in the evaluation process. Therefore, all five Significant Woodland Features (WOD-097, WOD-111, WOD-263, WOD-265 and WOD-277) were carried forward to the EIS of this NHA Addendum.

Woodland WOD-273 in Natural Area 291 was determined not to be a Significant Woodland Feature in the approved NHA and EIS, and therefore it was not carried forward to the EIS of this NHA Addendum.

Table 8. Wetland Characteristics and Ecological Function Assessment

W 41 115	Minimum				Biological Component						Hydrological (Component			Special	Feature Compon	nents
Wetland ID (refer to	Distance from	Wetland	Wetland			Proximity to Other	Inter-	Open			Water Quality Imp	provement	Shoreline	Groundwater		Significant	Fish
Figure 2)	Project Location (m)	Size (ha)	Туре	Site Type	Vegetation Communities	Wetlands	spersion	Water Type	Flood Attenuation	Short Term	Long Term Nutrient Trap	Groundwater Discharge	Erosion Control	Recharge	Species Rarity	Features and Habitats	Habitat
WET-048 Natural Area(s) 217 285 286	61 (turbine construction disturbance area)	13.9	Swamp, Marsh	Riverine	S1 (FOD7-2): h: Green Ash, Black walnut, White Elm, Bur Oak, Sugar Maple, and Black Maple, ts: Green Ash, Basswood and White Elm seedlings, gc: Thicket-creeper, Zig-zag Goldenrod, Moneywort and Garlic Mustard Other wetland units not within the 120 m Area of Investigation include: S2 (SWD): h: Deciduous Swamp S3 (SWT2): ts: Willows M1 (MAM2-10): gc: Meadow Marsh	Hydrologically connected by surface water to other wetlands (same dominant wetland type) from 0.5 to 1.5 km away (1,092 m)	29	Type 1	Located in lower portion of the watershed; Size of catchment basin upstream of wetland: 1,337 ha; Total area of known upstream detention areas 2.1 ha.	Surrounding land use is over 50% agricultural	Swamp with less than 50% covered with organic soil	Topography: flat / rolling Wetland to catchment ratio: <1% Seeps: None Not within 1 km of a major aquifer	Emergent vegetation	Dominant Wetland Type: Palustrine Soils: Clays		Locally significant winter cover for wildlife	Present: Low Marsh
WET-026 Natural Area(s) 115 118 119 120	(no change)	24.1	Swamp, Marsh	Riverine	S1 (FOD7-2): h: Green Ash, White Elm, Shagbark Hickory and Basswood, ts: Choke Cherry, Silky Dogwood, and Blue Beech, Is: Wild Black Current, gc: Spotted Geranium, Yellow Avens and Garlic Mustard; and S2 (SWD2-2): h: Green Ash. Other wetland units not within the 120 m Area of Investigation include: S3 (SWD): h: Deciduous Swamp M1 (MAM): ne: Meadow Marsh	Within 1 km of other wetlands, but not hydrologically connected by surface water (928 m)	52	Type 1	 Located in headwaters of watershed; Size of catchment basin upstream of wetland: 217 ha; No known upstream detention areas within catchment basin. 	Surroundin g land use is over 50% agricultural	Swamp with less than 50% covered with organic soil	Topography: flat / rolling Wetland to catchment ratio: 11% Seeps: None Not located within 1 km of a major aquifer.	Trees and shrubs	Dominant Wetland Type: Palustrine Soils: Clays	No Species of Conservation Concern encountered	Locally significant winter cover for wildlife	Present: Swamp

Table 9. Determination of Significance for Woodlands

									Eval	luation Criteria and	Sta	ndards						
			1.	Woodland Size	1	on 21.9% woodland cover with Woodland Interior	2b. P	<u> </u>				ality of Warwick, and 14.83% woo Water Protection	2e. \	cover within the Municipalit Woodland Diversity Representation (Composition)	_	Iorth Middlesex) Uncommon Characteristics		
Woodland Feature ID	Natural Area #	Municipality		Must be at least	М	ust have woodland interior at least ¹		e within 30 m of a significant natural ture or fish habitat ² and be at least		st be located between two other ant Features each of which are 120 m apart and be at least	ground	at be located within 50 m of a sensitive dwater discharge ³ , recharge, headwater, prourse or fish habitat and be at least	combin Ms, Mb	ust be dominated singly or in lation by native naturally occurring b, Msi, Mr, By, H, Ba, Ab, Wb, Ta, Pi, Oa, Ba, He, and be at least	Habita s Cha	nave rare vegetation community (S1, S2, S3) and be more than 0.5 ha in size OR at of a rare, uncommon, or restricted woodland plant pecies with ten individual stems or 100 m of leaf coverage and be more than 0.5 ha in size OR racteristics of older woodlands with larger tree size structure in native species and be more than	# of Criteria Met	Determination o Significance
			Muni	icipality of Lambton Shores: 20 ha in size	Munio	cipality of Lambton Shores: 2 ha in size	Municip	pality of Lambton Shores: 4 ha in size	Munic	ipality of Lambton Shores: 4 ha in size	Muni	cipality of Lambton Shores: 2 ha in size	Munici	pality of Lambton Shores: 4 ha in size		Municipality of Lambton Shores: 2 ha in size		
				nicipality of Warwick: 4 ha icipality of North Middlesex:		Municipality of Warwick: any size icipality of North Middlesex: any size		nicipality of Warwick: 1 ha in size pality of North Middlesex: 1 ha in size		icipality of Warwick: 1 ha in size ality of North Middlesex: 1 ha in size		unicipality of Warwick: 0.5 ha in size ipality of North Middlesex: 0.5 ha in size		icipality of Warwick: 1 ha in size ipality of North Middlesex: 1 ha in		Municipality of Warwick: 1 ha in size Municipality of North Middlesex: 1 ha in size	-	
				4 ha in size Criteria Met		Criteria Met		Criteria Met		Criteria Met		Criteria Met		size Criteria Met		Criteria Met		
			Y/N	I Description	Y/N	Description	Y/N	Description	Y/N	Description	Y/N	Description	Y/N	Description	Y/I	N Description		
WOD-097	115, 116, 118, 119, 566	Warwick/ Lambton Shores	Y	76.0 ha	Y	7.4 ha	Y	Within 30 m of another significant Feature	N	Does not meet criteria	N	Not within 120 m of water (no fish habitat)	Y	Dominated by listed species	Y	Mature forest present	5	Significant
WOD-111	117, 383	Lambton Shores	N	4.3 ha	N	0.0 ha	Y	Within 30 m of another significant Feature	N	Does not meet criteria	N	Not within 120 m of water (no fish habitat)	Y	Dominated by listed species	N	Does not meet criteria	2	Significant
WOD-265	293	Lambton Shores	N	15.4 ha	Y	3.2 ha	Y	Within 30 m of fish habitat; within 30 m of another significant Feature	N	Does not meet criteria	Y	Within 50 m of fish habitat	Y	Dominated by listed species	Y	Mature forest present	5	Significant

4.2.3 Wildlife Habitat

Rare Vegetation Community Feature RVC-05 was confirmed as significant and carried forward to the EIS of this NHA Addendum. In addition, for the purposes of this submission, the following candidate Significant Wildlife Habitat Features were treated as significant and carried forward to the EIS, with a commitment to complete pre-construction Evaluation of Significance surveys as described in **Section 4.1.3** of this NHA Addendum:

- Reptile Hibernacula Feature RH-05; and
- Amphibian Woodland Breeding Habitat Feature AWO-22.

The designation of candidate Significant Amphibian Woodland Breeding Habitat Features AWO-16 and AWO-20 were changed to Generalized Candidate Significant Wildlife Habitat; therefore, pre-construction Evaluation of Significance surveys are no longer required for these Features. Turtle Wintering Area Feature TWH-04, Turtle Nesting Habitat Feature TNH-02 and Bat Maternity Colony Feature BMA-297 are no longer within 120 m of the Project Location and therefore pre-construction Evaluation of Significance surveys are no longer required for these Features.

The results of Evaluation of Significance studies completed in support of this NHA Addendum are described below.

Turtle Wintering Areas

Evaluation of significance surveys for candidate significant Turtle Wintering Area Features TWH-01, TWH-02, TWH-03, TWH-05, TWH-06, TWH-07 and TWH-08 were completed between April 9, 2013 and May 27, 2013. The results of these surveys are summarized in **Table 10**. Field notes are provided in **Appendix B**. The qualifications of all field personnel were provided in Appendix E of the approved NHA and EIS.

Turtle Wintering Area Feature TWH-01 was assumed to be Significant Wildlife Habitat because it was not possible to complete Evaluation of Significance surveys for this feature due to a lack of property access. Features TWH-02, TWH-05, TWH-06 and TWH-07 were determined to be Significant Wildlife Habitat based on occurrences of Snapping Turtle. These Features were carried forward to the EIS of this NHA Addendum.

Table 10. Determination of Significance for Turtle Wintering Areas

Feature		Pre-const	ruction Evaluation of Signific	cance Surveys	Determination of
ID		Round 1	Round 2	Round 3	Significance
TWH-01	Date, Start and End Times, and Weather Conditions	April 9, 2013 14:05 – 14:25 Wind (Beaufort Scale): 2 Wind Direction: SW Cloud Cover (%): 100 Temp. (°C): 9 Precipitation: Drizzle Surveys not completed beca		N/A ate property was denied. Visibility	Yes – assumed Significant Wildlife Habitat This Feature was assumed Significant due to lack of property access to the Feature.
TWH-02	Date, Start and End Times and Weather Conditions	April 15, 2013 16:05 – 16:26 Wind (Beaufort Scale): 4 Wind Direction: S Cloud Cover (%): 90 Temp. (°C): 21 Precipitation: None	May 1, 2013 14:25 – 14:45 Wind (Beaufort Scale): 3 Wind Direction: S Cloud Cover (%): 0 Temp. (°C): 26 Precipitation: None	May 16, 2013 11:35 – 11:55 Wind (Beaufort Scale): 2 Wind Direction: SW Cloud Cover (%): 0 Temp. (°C): 20 Precipitation: None	Yes – Significant Wildlife Habitat No turtles were observed at this Feature; however, one Snapping Turtle observed in adjacent
F	Results	No turtles observed.	No turtles observed.	No turtles observed.	pond (TWH-07).

Feature		Pre-constru	uction Evaluation of Significan	nce Surveys	Determination of
ID		Round 1	Round 2	Round 3	Significance
TWH-03	Date, Start and End Times and	May 1, 2013 12:30 – 12:50 Wind (Beaufort Scale): 3	May 17, 2013 11:15 – 11:35 Wind (Beaufort Scale): 2	May 27, 2013 14:11 – 14:35 Wind (Beaufort Scale): 2	No – not Significant Wildlife Habitat.
	Weather Conditions	Wind Direction: SE Cloud Cover (%): 0 Temp. (°C): 22 Precipitation: None	Wind Direction: SW Cloud Cover (%): 55 Temp. (°C): 13 Precipitation: None	Wind Direction: SE Cloud Cover (%): 20 Temp. (°C): 19 Precipitation: None	Below threshold of 5 Midland Painted Turtles. No Snapping Turtles or Northern Map
	Results	Three Midland Painted Turtles observed basking on floating log.	One Midland Painted Turtle observed basking.	No turtles observed.	Turtles observed.
TWH-04	Feature TWH	l-04 is no longer within 120 m of	the Project Location as a result	of Modification B3.	
TWH-05	Date, Start and End Times and Weather Conditions	April 15, 2013 10:10 – 10:30 Wind (Beaufort Scale): 1 Wind Direction: SE Cloud Cover (%): 30 Temp. (°C): 9 Precipitation: None	May 1, 2013 15:31 – 15:51 Wind (Beaufort Scale): 2 Wind Direction: S Cloud Cover (%): 0 Temp. (°C): 26 Precipitation: None	May 16, 2013 10:00 – 10:20 Wind (Beaufort Scale): 2 Wind Direction: SW Cloud Cover (%): 0 Temp. (°C): 15 Precipitation: None	Yes – confirmed Significant Wildlife Habitat Presence of one Snapping Turtle near and travelling towards
	Results	No turtles observed.	<u> </u>	Four Midland Painted Turtles observed basking on same fallen log.	the pond and at least four Midland Painted Turtles observed basking in the pond.
TWH-06	Date, Start and End Times and Weather Conditions	April 15, 2013 13:46 – 14:06 Wind (Beaufort Scale): 3 Wind Direction: SE Cloud Cover (%): 85 Temp. (°C): 14 Precipitation: None	May 1, 2013 10:15 – 10:35 Wind (Beaufort Scale): 2 Wind Direction: SE Cloud Cover (%): 10 Temp. (°C): 18 Precipitation: None	May 16, 2013 13:30 – 14:10 Wind (Beaufort Scale): 2 Wind Direction: SW Cloud Cover (%): 0 Temp. (°C): 20 Precipitation: None	Yes – Significant Wildlife Habitat. Presence of one Snapping Turtle in adjacent pond.
	Results	No turtles observed.	No turtles observed.	No turtles observed in TWH- 06. One Snapping Turtle observed basking in adjacent pond.	
TWH-07	Date, Start and End Times and Weather Conditions	April 15, 2013 15:45 – 16:05 Wind (Beaufort Scale): 4 Wind Direction: S Cloud Cover (%): 90 Temp. (°C): 21 Precipitation: None	May 1, 2013 14:03 – 14:23 Wind (Beaufort Scale): 3 Wind Direction: S Cloud Cover (%): 0 Temp. (°C): 26 Precipitation: None	May 16, 2013 11:35 – 11:55 Wind (Beaufort Scale): 2 Wind Direction: SW Cloud Cover (%): 0 Temp. (°C): 20 Precipitation: None	Yes – confirmed Significant Wildlife Habitat. One Snapping Turtle observed basking along shoreline of pond.
	Results	No turtles observed.	One Snapping Turtle observed basking in weeds along shoreline of the pond.	No turtles observed.	
TWH-08	Date, Start and End Times and Weather Conditions	April 15, 2013 17:05 – 17:25 Wind (Beaufort Scale): 4 Wind Direction: S Cloud Cover (%): 100 Temp. (°C): 21 Precipitation: None	May 2, 2013 9:15 – 9:35 Wind (Beaufort Scale): 4 Wind Direction: SE Cloud Cover (%): 10 Temp. (°C): 19 Precipitation: None	May 16, 2013 10:00 – 10:20 Wind (Beaufort Scale): 2 Wind Direction: SE Cloud Cover (%): 0 Temp. (°C): 20 Precipitation: None	No – not Significant Wildlife Habitat. Below threshold of 5 Midland Painted Turtles. No Snapping Turtles or Northern Map
	Results	No turtles observed.	Four Midland Painted Turtles observed, three basking on log and one on bank.	No turtles observed.	Turtles observed.

Plant Species of Conservation Concern Habitat

A summary of the results of the plant species inventories conducted in Features SCP-24, SCP-25, SCP-26, SCP-27, SCP-28, SCP-29, SCP-30, SCP-31, SCP-32 and SCP-33 is provided in **Table 11**. A detailed list of all plant species observed in Features previously identified in the NHA and EIS (SCP-26, SCP-27, SCP-28, SCP-29, SCP-30, SCP-31, SCP-32 and SCP-33) is presented in Appendix I of the approved NHA and EIS and field notes are presented in Appendix D of the approved NHA and EIS. For Features SCP-24 and SCP-25, a detailed list of all plant species observed is provided in **Appendix C** and field notes are provided in **Appendix B**. The qualifications of all field personnel were provided in Appendix E of the approved NHA and EIS. No plant Species of Conservation Concern were observed at any of these Features and thus none were carried forward to the EIS of this NHA Addendum.

Table 11. Determination of Significance for Plant Species of Conservation Concern Habitat

Feature ID	Natural Area	ELC Unit	Date and Time of Vascular Plant Survey	Plant Species of Conservation Concern Observed	Carried Forward to EIS
SCP-24	90	CUM1-1	01-Aug-13; 11:50-12:15	No	No – not Significant Wildlife Habitat
SCP-25	340	CUM1-1	01-Aug-13; 10:40 – 11:25	No	No – not Significant Wildlife Habitat
SCP-26	215	CUW1q	12-Jul-12; 12:30 – 14:30	No	No – not Significant Wildlife Habitat
SCP-27	252	CUM1-1	7-Jun-12; 13:45 – 2:55	No	No – not Significant Wildlife Habitat
SCP-28	90	CUM1-1	7-Jun-12; 07:45 – 15:30	No	No – not Significant Wildlife Habitat
SCP-29	90	CUM1-1	6-Jun-12; 08:15 – 09:30	No	No – not Significant Wildlife Habitat
SCP-30	90	CUM1-1	6-Jun-12; 16:30 – 18:15	No	No – not Significant Wildlife Habitat
SCP-31	341	CUM1-1	21-Jun-12; 11:09 –11:58	No	No – not Significant Wildlife Habitat
SCP-32	344	CUM1-1	12-Jun-12; 11:30 –15:00	No	No – not Significant Wildlife Habitat
SCP-33	341	CUW1m	21-Jun-12; 11:09 –11:58	No	No – not Significant Wildlife Habitat

Red-headed Woodpecker Habitat

A summary of the results of woodland breeding bird surveys conducted in Features RHW-05 and RHW-06 is provided in **Table 12**. Field notes are provided in **Appendix B**. The qualifications of all field personnel were provided in Appendix E of the approved NHA and EIS. No evidence of bird Species of Conservation Concern, including Redheaded Woodpecker, was recorded in RHW-05 or RHW-06. Consequently, these Features were not carried forward to the EIS of this NHA Addendum.

Table 12. Determination of Significance for Red-headed Woodpecker Habitat

Feature	Natural	Round 1 Su	ırvey	Round 2 St	ırvey	Round 3 St	Carried	
ID	Area No.	Date, Time and Weather Conditions	Results Date, Time and Weather Conditions		Results	Date, Time and Weather Conditions	Results	Forward to EIS
RHW-05	215	5/30/2012 7:33 am- 7:43 am Temp: 12°C Wind Direction: W Wind Scale: 1 Sky Condition: clear, bright Cloud Cover: 10%	No bird species of conservatio n concern observed.	· · · ·	No bird species of conservatio n concern observed.	7/1/2012 7:18 am- 7:28 am Temp: 20°C Wind Direction: - Wind Scale: 0 Sky Condition: 0 Cloud Cover: 0%	No bird species of conservatio n concern observed.	No – not Significant Wildlife Habitat
RHW-06	341	5/31/2012 5:48 am- 5:58 am Temp: 8°C Wind Direction: - Wind Scale: 0 Sky Condition: 1 Cloud Cover: 40%	No bird species of conservatio n concern observed.	6/18/2012 6:28 am- 6:38 am Temp: 15°C Wind Direction: S Wind Scale: 1-2 Sky Condition: 4 Cloud Cover: 100%	No bird species of conservatio n concern observed.	6/30/2012 7:31 am- 7:55 am Temp: 25°C Wind Direction: N Wind Scale: 2 Sky Condition: 0 Cloud Cover: 0%	No bird species of conservatio n concern observed.	No – not Significant Wildlife Habitat

Generalized Candidate Significant Wildlife Habitat

The following new Generalized Candidate Significant Wildlife Habitat Features were carried forward to the EIS:

- Bat Maternity Colonies in Natural Areas 118 and 119;
- Plant Species of Conservation Concern Habitat in Natural Areas 117, 118, 119, 145, 172, 233, 290, 293, 298 and 383;
- Insect Species of Conservation Concern Habitat in Natural Area 290; and
- Red-headed Woodpecker Habitat in Natural Areas 118, 119, 145, 233, 290, 293 and 383.

4.2.4 Summary of Features Carried Forward to the EIS

The following Features were either evaluated and confirmed to be significant or treated as significant for the purpose of this submission and carried forward to the EIS:

- Wetland Feature WET-026 and WET-048;
- Woodland Features WOD-097, WOD-111, WOD-263, WOD-265 and WOD-277;
- Reptile Hibernacula Feature RH-05;
- Rare Vegetation Community Feature RVC-05;
- Turtle Wintering Habitat Features TWH-01, TWH-02, TWH-05, TWH-06 and TWH-07; and
- Amphibian Woodland Breeding Habitat Feature AWO-22.

The following new Generalized Candidate Significant Wildlife Habitats were identified as a result of the proposed Project Locations modifications and carried forward to the EIS:

- Bat Maternity Colonies in Natural Areas 118 and 119;
- Plant Species of Conservation Concern Habitat in Natural Areas 117, 118, 119, 145, 172, 233, 290, 293, 298 and 383;
- Insect Species of Conservation Concern Habitat in Natural Area 290; and
- Red-headed Woodpecker Habitat in Natural Areas 118, 119, 145, 233, 290, 293 and 383.

Where distances from Project infrastructure to Significant Features changed as a result of the proposed Project Location modifications (refer to **Table 1**), these Features were carried forward to the EIS of this NHA Addendum to ensure that any potential effects of the modified Project components are addressed through the application of appropriate mitigation measures, if required:

- Wetland Features WET-025, WET-044, WET-046, WET-050, WET-062 and WET-063;
- Woodland Features WOD-084, WOD-110, WOD-175, WOD-181, WOD-192, WOD-201, WOD-261, WOD-262 and WOD-267;
- Turtle Wintering Area Feature TWH-04;
- Turtle Nesting Habitat Feature TNH-02;
- Amphibian Woodland Breeding Habitat Features AWO-04, AWO-16 and AWO-20;
- Generalized Candidate Turtle Wintering Area in Natural Area 516;
- Generalized Candidate Significant Marsh Bird Breeding Habitat in Natural Area 249;
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern and Redheaded Woodpecker in Natural Area 285;

- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern and Redheaded Woodpecker, and Generalized Candidate Bat Maternity Colony in Natural Area 286;
- Bat Maternity Colony Feature BMA-297 in Natural Area 297;
- Generalized Candidate Plant Species of Conservation Concern Habitat in Natural Area 297;
- Terrestrial Waterfowl (Tundra Swan) Stopover and Staging Area Feature WSST-31;
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern and Redheaded Woodpecker in Natural Area 291;
- Provincially Significant Ausable River Valley Life Science ANSI.

5. Amendments to the Environmental Impact Study

5.1 Construction and Operation of the Transmission Line within the Thomson Line and Elginfield Road Right-of-way and Significant Wetlands

According to the amended O. Reg. 359/09, applicants may seek an exemption from the prohibition on development within a provincially significant wetland for the construction or installation of a transmission line. In support of this exemption, the EIS Report must provide an explanation for why it is not reasonable for the transmission line to be entirely outside the wetland, including a review of alternative transmission line routes and a description of how the proposed route has the fewest effects and is most easily mitigated. This description is provided below for the construction and operation of the transmission line within the Thomson Line and Elginfield Road Right-of-way and the Provincially Significant Ausable River Wetland (WET-050) and Significant Wetland Feature WET-078.

5.1.1 Rationale for Selecting the Proposed Transmission Line Route

The proposed transmission line route was selected as the preferred route for connecting the Jericho transformer substation to the Bornish Wind Energy Centre switchyard based on a review of technical and environmental considerations as well as stakeholder consultation. The range of potential route options for connecting the Jericho Project to the Bornish switchyard is highly constrained by the limited number of available crossings along the Ausable River, which runs north to south through the Project Study Area. Given that the transmission line route must commence at the Jericho transformer substation, which needs to be located in close proximity to the wind turbines that are associated with the Jericho Project, and that it must terminate at the Bornish switchyard, the transmission line route must cross the Ausable River at some point.

Within the Project Study Area, it would be much less disruptive to use an existing Ausable River crossing rather than to establish a new crossing. A new crossing would require clearing of trees and vegetation within the Ausable River valley, which contain several environmentally sensitive features including the Provincially Significant Ausable River Valley Life Science Area of Natural and Scientific Interest, the Provincially Significant Ausable River Wetland, and numerous Significant Wildlife Habitat Features. Using an existing crossing would minimize impacts to these Features.

There are a very limited number of existing crossings of the Ausable River in the Project Study Area. The Thomson Line/Elginfield Road crossing is the most direct transmission line route from the Jericho substation to the Bornish switchyard. The next-closest available river crossings, both to the north and to the south, would add several kilometers to the total length of the transmission line. Therefore, because the Thomson Line/Elginfield Road crossing would minimize negative environmental effects and affect the fewest number of people, the Thomson Line/Elginfield Road crossing is the preferred location for the transmission line crossing of the Ausable River. As a result, some vegetation removal will be required within the Provincially Significant Ausable River Wetland (WET-050) in the vicinity of the Ausable River crossing.

Portions of Significant Wetland Feature WET-078 in Natural Areas 235 and 236 extend into the Thomson Line right-of-way west of Arkona Road. In this location, the transmission line is proposed to be sited on the north side of the road within the right-of-way. The proposed transmission line route was selected as the preferred route as there are Hydro One Network distribution poles located on the other side of the road from WET-078. Therefore, Jericho Wind Inc. is currently expecting to locate the transmission line in the Thomson Line right-of-way within Significant Wetland Feature WET-078.

5.1.2 Construction and Operation of the Transmission Line

The transmission line is proposed to be located above-ground on private property and within existing road rights-of-way. The following pertains to those portions of the transmission line that will be installed within the Thomson Line and Elginfield Road right-of-way, and adjacent to or within Natural Features (*i.e.*, Woodlands, Wetlands, ANSIs and Significant Wildlife Habitat) identified in the approved NHA and EIS or this NHA Addendum. In the vicinity of the Ausable River, vegetation removal will occur within the right-off-way in CUM1-1 communities which do not contain Significant Wildlife Habitat, as described in this NHA Addendum.

A portion of the Provincially Significant Ausable River Wetland, as mapped by MNR, extends into the road right-of-way within these CUM1-1 vegetation communities and adjacent to the Ausable River. Therefore the minimum distance from the Project Location to Wetland Feature WET-050, which includes the Provincially Significant Ausable River Wetland, will be reduced to 0 m (transmission line in Feature). The above-ground transmission line will span this Feature and will be mounted on new transmission line poles located outside of the mapped Provincially Significant Ausable River Wetland boundaries within the Thomson Line and Elginfield Road right-of-way.

Likewise, the minimum distance from the Project Location to Wetland Feature WET-078 will be reduced to 0 m (transmission line in Feature) resulting from the need to locate the above-ground transmission line on the north side of the road due to the presence of existing Hydro One Network distribution poles on the south side of the road. The transmission line poles will be located outside of the Wetland boundaries within the Thomson Line right-of-way.

Vegetation removal for the transmission line will be kept to a minimum and limited to the road right-of-way. This may include trimming of branches or selective tree removal within the road right-of-way. The transmission line poles are proposed to be constructed of wood, concrete or steel and typically will be between 18 m and 30 m tall. A combination of crew on foot within Wetland Features WET-050 and WET-078 and equipment operated from the road right-of-way reaching over into the Feature will be used to construct the transmission line; no heavy equipment will enter either Wetland Feature. Mitigation measures, monitoring and compensation measures to address potential effects to Wetland Features WET-050 and WET-078 are described in **Section 5.2** below.

In the vicinity of this crossing, a number of Significant Features extend into the road right-of-way. These include Wetland Features WET-050 and WET-078, Woodland Feature WOD-263, the Provincially Significant Ausable River Life Science ANSI, Significant Wildlife Habitat Features including Deer Winter Congregation Area DWC-02, a Rare Vegetation Community (FOD7-4), and Generalized Candidate Significant Wildlife Habitat Features. As described in the approved NHA and EIS for Generalized Candidate Significant Wildlife Habitat, vegetation removal for the transmission line will be kept to a minimum and limited to the road right-of-way. This may include trimming of branches or selective tree removal within the road right-of-way.

Similarly, Significant Woodlands, Significant Wetlands and Significant Wildlife Habitat Features including Rare Vegetation Communities and Generalized Candidate Significant Wildlife Habitat Features extend into the Thomson Line and Elginfield Road right-of-way in other locations along the transmission line alignment. Vegetation removal in these Features will be kept to a minimum and limited to the road right-of-way. This may include trimming of branches or selective tree removal within the road right-of-way.

During operation, regular vegetation control will be required around the transmission line to prevent any damage to the line and ensure safe operation. For safety reasons and for maintenance of the transmission line, vegetation

within 10 m of the road right-of-way may need to be trimmed or selectively removed. Any vegetation that has the potential to grow to more than 4.3 m above grade will be cleared. The vegetation is typically cleared by mechanized equipment (e.g., chainsaw / hydro axe). Mitigation measures to address potential effects of routine maintenance of the transmission line are described in **Table 13** below.

5.2 Significant Wetlands

The minimum distance from Significant Wetland Feature WET-026 to the nearest Project Infrastructure did not change as a result of the proposed Project Location modifications. Therefore, no changes to the mitigation measures as described in Section 5.5.1 (Table 5.2) of the approved NHA and EIS and EIS are required for this Feature.

The minimum distance from Wetland Feature WET-050 to the nearest Project infrastructure (transmission line) is reduced from >0.1 m to 0 m (transmission line in Feature) as a result of Modification E6. Likewise, the minimum distance from the Project Location to Wetland Feature WET-078 will be reduced to 0 m (transmission line in Feature). Potential effects, mitigation measures, monitoring commitments and contingency measures to address potential effects to WET-050 and WET-078 are described in **Table 13** below. In addition, the minimum distances from the Project Location to the following Significant Wetland Features changed as a result of the proposed Project Location modifications. An assessment of any changes required to the mitigation measures that will be applied to these Features is provided below.

- WET-025: The minimum distance from this Feature to the nearest Project infrastructure (turbine blade) was increased from 20 to 22 m as a result of Modification G4. No changes are required to the mitigation measures described in Section 5.5.1 of the approved NHA and EIS to accommodate this modification, as the distance still falls within the range of distances for the mitigation measures proposed (refer to mitigation measures for wetlands within 5 m to 30 m of Project Infrastructure in Table 5.2).
- WET-044: The minimum distance from this Feature to the nearest Project infrastructure (turbine construction disturbance area) was increased from >0.1 m to 41 m as a result of Modification J4.
 Therefore, mitigation measures described for wetlands within 30 m to 120 m of Project infrastructure in Section 5.5.1 (Table 5.2) of the approved NHA and EIS will be applied to WET-044.
- WET-046: This Feature is no longer within the 120 m Area of Investigation as a result of Modification J2; therefore, the mitigation measures described for this Feature in the approved NHA and EIS will no longer be applied to WET-046.
- WET-048: The minimum distance from this Feature to the nearest Project infrastructure (turbine construction disturbance area) was reduced from 73 m to 61 m as a result of Modification A1. No changes are required to the mitigation measures described in Section 5.5.1 of the approved NHA and EIS to accommodate this modification, as the distance still falls within the range of distances for the mitigation measures proposed (refer to mitigation measures for wetlands within 5 m to 30 m of Project Infrastructure in Table 5.2).
- WET-062: The minimum distance from this Feature to the nearest Project infrastructure (access road) is reduced from 56 m to 50 m as a result of Modification D3. No changes are required to the mitigation measures described in Section 5.5.1 of the approved NHA and EIS to accommodate this modification, as the distance still falls within the range of distances for the mitigation measures proposed (refer to mitigation measures for wetlands within 5 m to 30 m of Project Infrastructure in Table 5.2).
- WET-063: The minimum distance from this Feature to the nearest Project infrastructure (access road and collection line) was reduced from 55 m to 20 m as a result of Modification G2. Therefore, mitigation measures described for wetlands within 5 m to 30 m of Project infrastructure in Section 5.5.1 (Table 5.2) of the approved NHA and EIS will be applied to WET-063.

No other changes to the mitigation measures described for Significant Wetland Features in the approved NHA and EIS are required to accommodate the proposed Project Location modifications.

Table 13. Additional Potential Effects on Significant Wetlands and Mitigation Measures

Significant Wetland	Potential Effects	Performance Objectives	Mitigation Measures	Likelihood and Significance of Residual Effects	Monitoring Plan and Contingency Measures
Wetlands where vegetation removal is proposed WET-050 (transmission line) WET-078 (transmission line)	Construction/ Decommissioning Trimming of branches or selective tree removal for transmission line in Significant Wetlands WET-050 and WET-078 within road right-of-way.	Minimize loss of wetland cover over time.	 Refer to General Mitigation Measures (Section 5.4 of approved NHA and EIS) for standard mitigation measures. Install transmission line poles outside the boundaries of the Significant Wetland. Minimize vegetation removal in Significant Wetland, to the extent possible. Perform vegetation clearing outside of the breeding bird season (May 1 to July 31). If this is not possible, MNR will be consulted regarding mitigation measures that may be required. Refer to Section 5.7 of the approved NHA and EIS for additional timing constraints related to wildlife. Clearly stake area to be cleared. Remove trees or tree limbs by hand-held equipment within Significant Wetland to minimize soil compaction. Fell trees with a chainsaw toward the construction area to reduce damage to adjacent vegetation being retained. Carry out removal of tree limbs on adjacent trees being retained under supervision of an Arborist or Forester. Cut damaged tree roots clean as soon as possible and cover exposed roots in approved topsoil under the supervision of an Arborist or Forester. Restore disturbed areas using suitable native wetland plant species. A Restoration Plan will be provided to MNR. 	road right-of-way.	 Daily monitoring of areas where active vegetation removal is occurring by Environmental Monitor. Monitor establishment of planted area and replant/fill plant if required. Contingency Measures: Any damaged trees will be pruned through implementation of proper arboricultural techniques, under supervision of an Arborist or Forester.
	Accidental intrusion into Significant Wetland resulting in damage to vegetation.	Avoid accidental intrusion into Significant Wetland.	 Refer to General Mitigation Measures (Section 5.4 of the approved NHA and EIS) for standard mitigation measures. Where construction occurs within 30 m, install and maintain protective fencing to clearly define the construction area and prevent accidental damage to vegetation. 	 Accidental intrusion will be avoided through clear delineation of boundaries and protective fencing. Negligible residual effects. 	Undertake monthly site inspections by an Environmental Monitor to ensure that protective fencing is intact and that there is no damage caused during construction. Contingency Measures: Repair protective fencing if damaged. Any damaged trees will be pruned through implementation of proper arboricultural techniques, under supervision of an Arborist or Forester.

Table 13. Additional Potential Effects on Significant Wetlands and Mitigation Measures

Significant Wetland	Potential Effects	Performance Objectives	Mitigation Measures	Likelihood and Significance of Residual Effects	Monitoring Plan and Contingency Measures
	Increased erosion and sedimentation resulting from clearing and grubbing, excavation, backfilling and stockpiling.	Minimize erosion and sedimentation from clearing, grubbing, excavation, backfilling and stockpiling.	Install sediment and erosion control fencing along edge of construction area as per Ontario Provincial Standard Specifications (OPSD 219.130). Refer to General Mitigation Measures (Section 5.4 of the approved NHA and EIS) for mitigation measures including sediment and erosion controls to be applied.	Sedimentation avoided or minimized through application of mitigation measures. Low likelihood and limited magnitude of effect as a result.	 Monitor on-site conditions (i.e., erosion and sediment control, flooding, etc.) by an Environmental Monitor where construction occurs within 30 m of a feature on the following basis: Daily during active construction periods; Prior to, during and post forecasted large rainfall events (>20 millimetres in 24 hours) or significant snowmelt events (i.e., spring freshet); Daily during extended rain or snowmelt periods; Monthly during inactive construction periods, where the site is left alone for 30 days or longer. Contingency Measures: Suspend work if excessive flows of sediment discharges occur until additional mitigation measures are in place (e.g., install the extra erosion and sediment control materials kept on site, such as heavy duty silt fencing, straw bales, etc.).
	Risk of soil or water contamination resulting from accidental spills of fuel, etc.	Minimize soil or water contamination.	 Develop and implement emergency spills plan outlining steps to contain any chemicals or to avoid contamination of adjacent Significant Wetland feature. Refer to General Mitigation Measures (Section 5.4 of the approved NHA and EIS) for mitigation measures. 	Soil and water contamination avoided or minimized through application of mitigation measures. Low likelihood and limited magnitude of effect as a result.	Contractor to conduct routine inspections of construction equipment for leaks / spills. Develop an emergency spills plan. Contingency Measures: Immediately stop all work until the spill is cleaned up. Notify MOE's Spills Action Centre of any leaks or spills. If a spill enters Significant Wetland, collect and analyze water samples for appropriate parameters. Monitor daily until cleanup is completed.

Table 13. Additional Potential Effects on Significant Wetlands and Mitigation Measures

Significant Wetland	Potential Effects	Performance Objectives	Mitigation Measures	Likelihood and Significance of Residual Effects	Monitoring Plan and Contingency Measures
	Risk of spread of invasive species into Significant Wetland as a result of construction disturbance.	Avoid spread of invasive species into Significant Wetland	 Ensure all equipment, including clothing/boots, is thoroughly washed before entering the Significant Wetland to avoid introducing seeds or fragments of invasive species into the Significant Wetland. Restore disturbed areas as soon as possible using suitable native wetland plant species. A Restoration Plan will be provided to MNR. 	 Spread of invasive species avoided or minimized through the application of mitigation measures. Low likelihood and limited magnitude of effect as a result. 	 Daily monitoring of areas where construction activities are occurring within the Significant Wetland by Environmental Monitor. Monitor establishment of planted area and replant/fill plant if required.
	Operation • Risk of soil or water contamination from oil, gas, etc. during maintenance activities where the transmission line is within 30 m of Significant Wetlands WET-050 and WET-078.	No off-site contamination of soil and no contamination of groundwater or surface water.	Develop and implement an emergency spills plan outlining steps to contain any spills during maintenance activities to avoid contamination of Significant Wetlands.	Residual effects considered negligible.	No monitoring required. Contingency Measures: Report the details of the spill to MOE, including a description of any assessment and remediation undertaken.
	Trimming of branches or selective tree removal during routine maintenance of the transmission line in Significant Wetlands WET-050 and WET-078.	Minimize disturbance to wetland form and function.	 Minimize vegetation removal in Significant Wetland, to the extent possible. For safety reasons and for maintenance of the transmission line, vegetation within 10 m of the road right-of-way may need to be trimmed or selectively removed. Any vegetation that has the potential to grow to more than 4.3 m above grade will be cleared. Perform routine vegetation clearing outside of the breeding season for birds and amphibians (March 15 to July 31). If this is not possible, MNR will be consulted regarding mitigation measures that may be required. Remove trees or tree limbs by hand-held equipment within Significant Wetland to minimize soil compaction. Fell trees with a chainsaw away from the Significant Wetland to reduce damage to adjacent vegetation being retained. Carry out removal of tree limbs under supervision of an Arborist or Forester. Leave tree stumps and roots in place, to minimize disturbance to adjacent vegetation. 	Minimal clearing of vegetation will occur for operation of the transmission line. Minimal residual effects.	No monitoring required. Contingency Measures: Any damaged trees will be pruned through implementation of proper arboricultural techniques, under supervision of an Arborist or Forester.

Table 13. Additional Potential Effects on Significant Wetlands and Mitigation Measures

Significant Wetland	Potential Effects	Performance Objectives	Mitigation Measures	Likelihood and Significance of Residual Effects	Monitoring Plan and Contingency Measures
	Trimming of branches or selective tree removal for construction of the transmission line in Significant Wetlands WET-050 and WET-078 within road right-of-way.	No loss of wetland cover over time.	Restore disturbed areas using suitable native wetland plant species. A Restoration Plan will be provided to MNR.	Some clearing of vegetation will occur for the transmission line; this would be minimal and limited to the road right-of-way. Minimal residual effects.	Conduct post-planting inventory of restored area to determine success of establishment. Contingency Measures: If restored area is not establishing for any number of reasons, implement additional restoration measures including re-planting and additional monitoring.

5.3 Significant Woodlands

Three new Significant Woodland Features were identified within the 120 m Area of Investigation as a result of the proposed Project Location modifications. A description of the potential effects, mitigation measures and monitoring commitments that will be applied to these Features is provided below.

- WOD-097: The minimum distance from this Feature to the nearest Project infrastructure (access road) is >0.1 m (Modification F3). Therefore, mitigation measures described for woodlands within 5 m of Project infrastructure in Section 5.6.1 (Table 5.3) of the approved NHA and EIS will be applied to WOD-097.
- WOD-111: The minimum distance from this Feature to the nearest Project infrastructure (access road) is 41 m (Modification F2). Therefore, mitigation measures described for woodlands within 30 m to 120 m of Project infrastructure in Section 5.6.1 (Table 5.3) of the approved NHA and EIS will be applied to WOD-111.
- WOD-265: The minimum distance from this Feature to the nearest Project infrastructure (turbine construction disturbance area) is 30 m (Modification J3). Therefore, mitigation measures described for woodlands within 5 m to 30 m of Project Infrastructure in Section 5.6.1 (Table 5.3) of the approved NHA and EIS will be applied to WOD-265.

The minimum distance from Significant Woodland Features WOD-263 and WOD-277 to the nearest Project infrastructure did not change as a result of the proposed Project Location modifications. Therefore, no changes to the mitigation measures as described in Section 5.6.1 (Table 5.3) of the approved NHA and EIS are required for these Features.

The minimum distances from the Project Location to the following Significant Woodland Features changed as a result of the proposed Project Location modifications. An assessment of any changes required to the mitigation measures that will be applied to these Features is provided below.

- WOD-084: The minimum distance from this Feature to the nearest Project Infrastructure (turbine blade) increased from 20 m to 22 m (Modification G4). No changes are required to the mitigation measures described in Section 5.6.1 (Table 5.3) of the approved NHA and EIS to accommodate this modification (refer to mitigation measures for woodlands within 5 m to 30 m of Project Infrastructure in Table 5.3).
- WOD-110: The minimum distance from this Feature to the nearest Project Infrastructure (turbine blade) decreased from 17 m to 9 m (Modification G2). No changes are required to the mitigation measures described in Section 5.6.1 of the approved NHA and EIS to accommodate this modification, as the distance still falls within the range of distances for the mitigation measures proposed (refer to mitigation measures for woodlands within 5 m to 30 m of Project Infrastructure in Table 5.3).
- WOD-175: The minimum distance from this Feature to the nearest Project infrastructure (transmission line) decreased from >0.1 m to 0 m (transmission line is in Feature; Modification K7). Up to 0.2 ha of trees will be cleared within this Significant Woodland Feature where it occurs within the road right-of-way. Therefore, the mitigation measures, monitoring and contingency measures described for woodlands where vegetation removal is proposed in Section 5.6.1 (Table 5.3) of the approved NHA and EIS will be applied to WOD-175.
- WOD-181: The minimum distance from this Feature to the nearest Project infrastructure (transmission line) decreased from >0.1 m to 0 m (transmission line is in Feature; Modification K5). Up to 0.1 ha of trees will be cleared within this Significant Woodland Feature where it occurs within the Elginfield Road right-of-way. Therefore, the mitigation measures, monitoring and contingency measures described for woodlands where vegetation removal is proposed in Section 5.6.1 (Table 5.3) of the approved NHA and EIS will be applied to WOD-181.

- WOD-192: The minimum distance from this Feature to the nearest Project Infrastructure (access road) decreased from 5 m to >0.1 m (Modification C1). No changes are required to the mitigation measures described in Section 5.6.1 of the approved NHA and EIS to accommodate this modification, as the distance still falls within the range of distances for the mitigation measures proposed (refer to mitigation measures for woodlands within 5 m of Project Infrastructure in Table 5.3).
- WOD-201: The minimum distance from this Feature to the nearest Project infrastructure (transmission line) decreased from >0.1 m to 0 m (transmission line is in Feature; Modification D10). Up to 0.03 ha of trees will be cleared within this Significant Woodland Feature where it occurs within the Thomson Line right-of-way. Therefore, the mitigation measures, monitoring and contingency measures described for woodlands where vegetation removal is proposed in Section 5.6.1 (Table 5.3) of the approved NHA and EIS will be applied to WOD-201.
- WOD-261: This Feature is no longer within the 120 m Area of Investigation as a result of Modification
 J2; therefore, the mitigation measures described for this Feature in the approved NHA and EIS will no
 longer be applied to WOD-261.
- WOD-262: This Feature is no longer within the 120 m Area of Investigation as a result of Modification
 A3; therefore, the mitigation measures described for this Feature in the approved NHA and EIS will no
 longer be applied to WOD-262.
- WOD-267: This Feature is no longer within the 120 m Area of Investigation as a result of Modification A7; therefore, the mitigation measures described for this Feature in the approved NHA and EIS will no longer be applied to WOD-267.

No other changes to the mitigation measures proposed for Significant Woodland Features in the approved NHA and EIS are required to accommodate the proposed Project Location modifications.

5.4 Significant Wildlife Habitat

The significance of some candidate Significant Wildlife Habitat Features (including RH-05 and AWO-22) has yet to be determined, as additional field studies are required to evaluate the significance of these Features. For the purposes of this submission, these candidate Significant Wildlife Habitat Features have been treated as significant and potential effects, mitigation measures and monitoring commitments related to these Features are described below. However, these will only be implemented if the Features in question are deemed to be significant based on the results of pre-construction surveys, as described in **Section 4.1.3**.

5.4.1 New Significant Wildlife Habitat Features Identified Through this NHA Addendum

Two new Significant Wildlife Habitat Features were identified within the 120 m Area of Investigation as a result of the proposed Project Location modifications. A description of the potential effects, mitigation measures and monitoring commitments that will be applied to these Features is provided below.

• Reptile Hibernacula Feature RH-05:

The minimum distance from this Feature to the nearest project infrastructure (access road) is 5 m (Modification F3). Therefore, mitigation measures described for Reptile Hibernacula in Section 5.7.3 of the approved NHA and EIS (refer to mitigation measures in Table 5.6) will be applied to RH-05. Two years of post-construction surveys will also be applied to RH-05 if it is confirmed as significant through pre-construction Evaluation of Significance surveys.

• Rare Vegetation Community Feature RVC-05:

The minimum distance from this Feature to the nearest Project infrastructure (access road) is 24 m (Modification A1). Therefore, mitigation measures described for Other Rare Vegetation Communities in Section 5.7.3 of the approved NHA and EIS (refer to mitigation measures in Table 5.6) will be applied to RVC-05.

Mitigation measures to address potential effects on Generalized Candidate Significant Wildlife Habitat as described in Section 5.7.3 (Table 5.5) of the approved NHA and EIS will be applied to the following new Generalized Candidate Significant Wildlife Habitat Features identified through this NHA Addendum:

- Bat Maternity Colony Habitat in Natural Areas 118 and 119;
- Plant Species of Conservation Concern Habitat in Natural Areas 117, 118, 119, 145, 172, 233, 290, 293, 298 and 383:
- Insect Species of Conservation Concern Habitat in Natural Area 290; and
- Red-headed Woodpecker Habitat in Natural Areas 118, 119, 145, 233, 290, 293 and 383.

5.4.2 Designation Changes to Previously Identified Significant Wildlife Habitat Features

Distances from Project infrastructure to the following Significant Wildlife Habitat Features previously identified in the approved NHA and EIS changed as a result of the proposed Project Location modifications. An assessment of any changes required to the mitigation measures that will be applied to these Features is provided below.

Amphibian Woodland Breeding Habitat Feature AWO-22:

The distance from this Feature to the disturbance area of an access road decreased from >120 m to >0.1 m (Modification C1). As a result, the designation of this Feature changed from Generalized Candidate Significant Wildlife Habitat to candidate Significant Amphibian Woodland Breeding Habitat Feature AWO-22. Therefore, the mitigation measures for Amphibian Woodland Breeding Habitat as described in Section 5.7.3 (Table 5.6) of the approved NHA and EIS now apply to this Feature. Three years of post-construction surveys will also be applied to Feature AWO-22 if confirmed to be significant through pre-construction Evaluation of Significance surveys.

Amphibian Woodland Breeding Habitat Feature AWO-04:

The distance from this Feature to an access road decreased from 35 m to 9 m (Modification G2). As the access road will be within 30 m of this Feature, three years of post-construction surveys will be applied to Feature AWO-04 if it is confirmed to be significant through pre-construction Evaluation of Significance surveys.

Amphibian Woodland Breeding Habitat Feature AWO-16:

The distance from this Feature to the disturbance area of an access road increased from 1 m to >120 m (Modification B3). As a result, the designation of this Feature changed to Generalized Candidate Significant Wildlife Habitat. Therefore, the mitigation measures for Generalized Candidate Significant Wildlife Habitat as described in Section 5.7.3 (Table 5.5) of the approved NHA and EIS now apply to this Feature.

Amphibian Woodland Breeding Habitat Feature AWO-20:

The distance from this Feature to the disturbance area of an access road increased from 109 m to >120 m (Modification C1). As a result, the designation of this Feature changed to Generalized Candidate Significant Wildlife Habitat. Therefore, the mitigation measures for Generalized Candidate Significant Wildlife Habitat as described in Section 5.7.3 (Table 5.5) of the approved NHA and EIS now apply to this Feature.

• Turtle Wintering Area Feature TWH-04:

This Feature is no longer within 120 m of the Project Location. Therefore, the mitigation measures for Turtle Wintering Area as described in Section 5.7.3 (Table 5.6) of the approved NHA and EIS no longer apply to this Feature.

• Turtle Nesting Habitat Feature TNH-02:

This Feature is no longer within 120 m of the Project Location. Therefore, the mitigation measures for Turtle Nesting Habitat as described in Section 5.7.3 (Table 5.6) of the approved NHA and EIS no longer apply to this Feature.

Generalized Candidate Turtle Wintering Area in Natural Area 516:

This distance from this feature to an access road decreased from >120 m to 1 m (Modification G5). However, this Feature is no longer considered to contain suitable turtle wintering habitat as a result of site investigations conducted in support of this Addendum. Therefore, mitigation measures to address potential effects on Generalized Candidate Significant Wildlife Habitat as described in Section 5.7.3 (Table 5.5) of the approved NHA and EIS no longer apply to this Feature.

Terrestrial Waterfowl (Tundra Swan) Stopover and Staging Area Feature WSST-31:

This Feature is no longer within 120 m of the Project Location as a result of Modification A7. Therefore, the mitigation measures for Terrestrial Waterfowl (Tundra Swan) Stopover and Staging Areas as described in Section 5.7.3 (Table 5.6) of the approved NHA and EIS no longer apply to this Feature.

Bat Maternity Colony Feature BMA-297:

This Feature is no longer within 120 m of the Project Location as a result of Modification J2. Therefore, the mitigation measures for Bat Maternity Colonies as described in Section 5.7.3 (Table 5.6) of the approved NHA and EIS no longer apply to this Feature.

The distances from the following Features to the Project Location increased to greater than 120 m as a result of the proposed Project Location modifications. Therefore, mitigation measures for Generalized Candidate Significant Wildlife Habitat as described in Section 5.7.3 (Table 5.5) of the approved NHA and EIS no longer apply to these Features:

- Generalized Candidate Significant Marsh Bird Breeding Habitat in Natural Area 249 (Modification B3);
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern and Redheaded Woodpecker in Natural Area 285 (Modification A3);
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern and Redheaded Woodpecker, and Generalized Candidate Bat Maternity Colony in Natural Area 286 (Modification A7);
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern and Redheaded Woodpecker in Natural Area 291 (Modification A7); and
- Generalized Candidate Significant Wildlife Habitat for Plant Species of Conservation Concern in natural area 297 (Modification J2).

The minimum distances from the following Significant Wildlife Habitat Features to the Project Location changed as a result of the proposed Project Location modifications. However, these changes to minimum distances do not require changes to the mitigation measures described in Section 5.7.3 (Table 5.6) of the approved NHA and EIS for these Features:

Amphibian Movement Corridor Feature AMC-01:

The distance from this Feature to the nearest Project Infrastructure (turbine construction disturbance area) decreased to >0.1 m (collection line); however this Feature is still 106 m from an access road (Modification B3).

Bat Maternity Colony Feature BMA-097:

The distance from this Feature to the nearest Project Infrastructure (crane path and collection line) increased from 20 m to 22 m from turbine blade; however, distance from turbine blade as reported in the approved NHA and EIS did not change (i.e., remains within 22 m) (Modification G4).

Minimum distances from the following Generalized Candidate Significant Wildlife Habitat Features to the Project Location changed as a result of the proposed Project Location modifications. However, these changes to minimum distances do not require changes to the mitigation measures as described for Generalized Candidate Significant Wildlife Habitat in Section 5.7.3 (Table 5.5) of the approved NHA and EIS for these Features:

- Bat Maternity Colony Feature in Natural Area 173;
- Turtle Wintering Area Features in Natural Areas 243 and 249;
- Mature Forest Stand Feature in Natural Area 102:
- Turtle Nesting Habitat Feature in Natural Area 249;
- Amphibian Wetland Breeding Habitat Feature in Natural Area 249:
- Plant Species of Conservation Concern Habitat Features in Natural Areas 97, 102, 173, 167 and 249; and
- Red-headed Woodpecker Habitat Features in Natural Areas 97 and 102.

No other changes to the mitigation measures proposed for significant wildlife habitat in the approved NHA and EIS are required to accommodate the proposed Project Location modifications.

5.4.3 Additional Potential Effects and Mitigation Measures for Snapping Turtle

Turtle Wintering Area Feature TWH-01 was assumed to be Significant Wildlife Habitat because it was not possible to complete Evaluation of Significance surveys for this feature due to a lack of property access. Therefore, the mitigation measures for Turtle Wintering Area as described in Section 5.7.3 (Table 5.6) of the approved NHA and EIS will be applied to this Feature.

Turtle Wintering Area Features TWH-02, TWH-05, TWH-06 and TWH-07 were confirmed as Significant Wildlife Habitat due to the presence of Snapping Turtle, as species designated federally and provincially as Special Concern. Snapping Turtles are known to nest often on the side of roads, especially those with gravel shoulders, which increases the risk of road mortality (COSEWIC, 2008). In addition, this species is also threatened by legal and illegal harvesting (COSEWIC, 2008). As such, additional mitigation measures are proposed herein for Turtle Wintering Area Features TWH-02, TWH-05, TWH-06 and TWH-07, which are confirmed to contain habitat for Snapping Turtle (**Table 14**).

5.5 Areas of Natural and Scientific Interest (ANSIs)

The minimum distance from the Project Location to the Provincially Significant Ausable River Valley Life Science ANSI was reduced to 0 m (transmission line in Feature) as a result of Modification E6. The proposed location of the transmission line crossing of this Feature is within an existing road right-of-way therefore no direct loss or fragmentation of the Feature is expected as a result of the proposed Project Location modifications. Vegetation removal is proposed in CUM1-1 communities within the Thomson Line and Elginfield Road right-of-way, which are within the boundaries of this Feature as mapped by MNR. There are no Significant Wildlife Habitat, Significant Wetland or Significant Woodland Features present in the areas where vegetation removal will occur within the ANSI. Given the significance of this Feature, potential effects to this ANSI are comprehensively covered in Section 5.5 (Significant Wetlands), Section 5.6 (Significant Woodlands) and Section 5.7 (Significant Wildlife Habitat) of the approved NHA and EIS. No additional mitigation measures or monitoring commitments are required for this feature beyond those already described in the approved NHA and EIS.

 Table 14.
 Additional Potential Effects on Turtle Wintering Areas and Mitigation Measures

Significant Features(s)	Potential Effects	Performance Objectives	Mitigation Strategy	Residual Effects	Monitoring Plan and Contingency Measures
Turtle Wintering Areas Confirmed to Contain Snapping Turtle Habitat Project Infrastructure requiring EIS: Access roads Minimum distance to nearest access road: TWH-02: >0.1 m TWH-05: >0.1 m TWH-06: 107 m TWH-07: 7 m	Accidental intrusion into natural features resulting in habitat damage.	Avoid accidental intrusion into habitat.	Clearly delineate habitat boundaries where construction will occur within 30 m using protective fencing (sediment and erosion control fence) to ensure that construction activities occur outside the habitat boundaries as per Figure 3.5d in the approved NHA and EIS. Construction activities will be limited to the disturbance areas as detailed on Figure 1 of this NHA Addendum.	 Disruption to turtle wintering areas avoided through habitat delineation and fencing. Negligible residual effects. 	Undertake on-site inspections by an Environmental Monitor to ensure that protective fencing is intact and that there is no damage caused during construction on the following basis: Weekly during active construction periods; Prior to, during and post forecasted large rainfall events (>20 millimetres in 24 hours) or significant snowmelt events (i.e., spring freshet); and Daily during extended rain or snowmelt periods. Inspection not required during inactive construction periods, where the site is left alone for 30 days or longer. Contingency Measures: Repair protective fencing if damaged. Consultation with MNR to determine additional contingency measures if necessary.
	Disruption or possible mortality of turtles moving between wintering ponds and other areas. Possible injury/mortality from intrusion into construction site.	Minimize disruption to turtle movement. Prevent injury and/or mortality of turtles during construction.	 Post speed limits (30 km/hr) and turtle crossing signage along access roads within 120 m of Significant Turtle Wintering Areas. Do not clear vegetation within 30 m of ponds in April, May, September or October. No vegetation within the defined habitat is to be removed. If this is not possible, MNR will be consulted regarding any additional mitigation measures that may be required. To avoid collisions with turtles, schedule construction activities within 30 m to occur during daylight hours and not during the period of emergence (March 15 to May 31). If construction must occur during this timing window, conduct area searches for turtles daily prior to construction activities. Educate construction site staff about turtle species that may potentially occur in the Study Area and the steps to be taken if an encounter occurs. If roadside nests are encountered during construction, the site should be avoided and the local MNR office should be contacted immediately. Fence area as far from pond and as close to proposed road as possible. 	Disruption and/or mortality minimized through construction timing and speed limits. Low likelihood of occurring and limited magnitude.	 contingency measures if necessary. If construction occurs within 30 m of a turtle wintering area (if determined to be significant) between March 15 and May 31, conduct area searches for turtles by a qualified Biologist prior to soil stripping or grubbing, as well as daily prior to construction activities by the Contractor within the construction footprint. Contingency Measures: Turtles encountered within the construction area will be moved to a safe location (nearby pond) under the direction of the Environmental Monitor or a qualified Biologist. A Turtle Relocation Plan will be prepared, to be implemented in the event that turtles need to be handled or moved.

Table 14. Additional Potential Effects on Turtle Wintering Areas and Mitigation Measures

Significant Features(s)	Potential Effects	Performance Objectives	Mitigation Strategy	Residual Effects	Monitoring Plan and Contingency Measures
	Increased erosion and sedimentation resulting from clearing and grubbing, backfilling and stockpiling.	Minimize erosion and sedimentation in wintering pond.	Install sediment and erosion control fencing along edge of construction area if within 30 m of habitat feature as per Ontario Provincial Standards Specifications (OPSD 219.130).	Erosion and sedimentation mitigated through sediment and erosion control fencing. Moderate likelihood; if erosion and sedimentation occur, negative effects may be measurable but would likely represent a small change relative to existing conditions.	Monitor on-site conditions (i.e., erosion and sediment control, spills, flooding, etc.) by an Environmental Monitor where construction occurs within 30 m of a feature on the following basis: Weekly during active construction periods; Prior to, during and post forecasted large rainfall events (>20 millimetres in 24 hours) or significant snowmelt events (i.e., spring freshet); Daily during extended rain or snowmelt periods; Monthly during inactive construction periods, if the site is left alone for 30 days or longer. Contingency Measures: Suspend work if excessive flows of sediment discharges occur until additional mitigation measures are in place (e.g. install the extra erosion and sediment control materials kept on site, such as heavy duty silt fencing, straw bales, etc.).
	Possible indirect effects on wintering pond condition through changes to surface water drainage patterns.	Minimize indirect effects on pond through changes in surface water drainage patterns.	 Ensure Best Management Practices are used to maintain current drainage patterns, including: Implement infiltration techniques to the maximum extent possible. Minimize paved surfaces and design roads to promote infiltration. Limit changes in land contours. Ensure no grade changes within 30 m of pond. 	 Indirect effects to habitat minimized by maintaining grade. Low likelihood of occurring and limited magnitude. 	 Inspect locations following completion of access roads by an Environmental Monitor to ensure no changes in drainage patterns. Examine condition of wintering ponds within 30 m of access roads following completion of construction. Contingency Measures: If surface water drainage alterations are detected, undertake corrective measures to restore drainage pattern.
	Operation • Risk of road mortality to turtles moving between wintering ponds and other areas.	Minimize turtle mortality along access roads.	Maintain wildlife crossing signs and limit speed of vehicles (30 km/hr) along access roads within 120 m of Significant Turtle Wintering Areas.	 Risk of turtle road mortality reduced through mitigation measures. Low likelihood of occurring and limited magnitude due to limited volume of maintenance vehicles. 	No monitoring or contingency measures required.
	Increased access for poaching as a result of access roads.	Avoid increased access for poaching during operation.	Install a gate on access roads that are within 120 m of Significant Turtle Wintering Areas to prevent public access.	 Potential increased access for poaching minimized through the application of mitigation measures. Low likelihood of poaching as access roads are located in agricultural fields on private property. 	No monitoring or contingency measures required.

Table 14. Additional Potential Effects on Turtle Wintering Areas and Mitigation Measures

Significant Features(s)	Potential Effects	Performance Objectives	Mitigation Strategy	Residual Effects	Monitoring Plan and Contingency Measures
	Possible mortality to turtles nesting on side of access road.	Prevent mortality of nesting turtles during operation.	Construct access roads that are within 120 m of Significant Turtle Wintering Areas designed using materials that are not suitable for turtle nesting.	Possible mortality to nesting turtles on side of access roads minimized through application of mitigation measures. Low likelihood of mortality due to lack of suitable habitat on side of access roads.	No monitoring or contingency measures required.

6. Summary and Conclusions

As was the case for the original proposed Project (as described in the approved NHA and EIS), the significance of anticipated residual effects associated with the proposed Project Location modifications is predicted to be low provided that the recommended mitigation measures are properly implemented and proactively managed throughout the duration of construction and post-construction activities. Mitigation and compensation measures will address the minimal vegetation removal within Significant Woodlands and the Provincially Significant Ausable River Valley Life Science ANSI restricted to the Thomson Line and Elginfield Road right-of-way for construction of the transmission line. No other above-ground project infrastructure is proposed to be located within significant natural Features (*i.e.*, Significant Woodlands, Significant Wetlands or Significant Wildlife Habitat) and no vegetation clearing will be required in significant natural Features for the remaining Project Location modifications.

Potential operation effects of turbines on bird and bat mortality will be monitored for at least 3 years post-construction and, if required, mitigation measures (including operational controls) will be implemented in accordance with provincial guidelines and requirements, as described in Birds and Bird Habitats: Guidelines for Wind Power Projects (MNR, 2011a) and Bats and Bat Habitats: Guidelines for Wind Power Projects (MNR, 2011b).

7. References

AECOM, 2013a:

Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report. Prepared for NextEra Energy Canada, ULC. February, 2013.

AECOM, 2013b:

Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report Second Addendum. Prepared for NextEra Energy Canada, ULC. January, 2013.

AECOM, 2012:

Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Addendum. Prepared for NextEra Energy Canada, ULC. December 10, 2012.

COSEWIC, 2008:

COSEWIC assessment and status report on the Snapping Turtle *Chelydra serpentina* in Canada. Committee on the Status of Endangered Wildlife In Canada, Ottawa, vii + 47 pp.

Bried, J.T., K.L. Strout and T. Portante, 2012:

Coefficients of Conservatism for the Vascular Flora of New York and New England: Inter-State Comparisons and Expert Opinion Bias. *Northeastern Naturalist*, 19(Sp6): 101-114.

Ontario Ministry of Natural Resources (MNR), 2011a:

Birds and Bird Habitats: Guidelines for Wind Power Projects.

Ontario Ministry of Natural Resources (MNR), 2011b:

Bats and Bat Habitats: Guidelines for Wind Power Projects.

Ontario Ministry of Natural Resources (MNR), 2012:

Natural Heritage Assessment Guide for Renewable Energy Projects. 2nd Edition.



Appendix A

MNR Confirmation and Re-confirmation Letters

Ministry of Natural Resources Ministère des Richesses naturelles



Renewable Energy Operations Team 300 Water Street 4th Floor, South Tower Peterborough, Ontario K9J 8M5

February 7, 2013

Jericho Wind, Inc. 390 Bay Street, Suite 1720 Toronto, ON, M5H 2Y2

RE: NHA Confirmation for Jericho Wind Energy Centre

Dear Tom Bird:

In accordance with the Ministry of the Environment's (MOE's) Renewable Energy Approvals (REA) Regulation (O.Reg.359/09), the Ministry of Natural Resources (MNR) has reviewed the Natural Heritage Assessment and Environmental Impact Study Report for the Jericho Wind Energy Centre project located in the Municipalities of Lambton Shores and North Middlesex and the Township of Warwick, and submitted by Jericho Wind, Inc on February 7, 2013. The Natural Heritage Assessment and Environmental Impact Study Report also includes the Parkhill Interconnect Renewable Energy Approval Application – Natural Heritage Assessment and Environmental Impact Study Report (Appendix A).

In accordance with Section 28(2) and 38(2)(b) of the REA regulation, MNR provides the following confirmations following review of the natural heritage assessment:

- The MNR confirms that the determination of the existence of natural features and the boundaries of natural features was made using applicable evaluation criteria or procedures established or accepted by MNR.
- The MNR confirms that the site investigation and records review were conducted using applicable evaluation criteria or procedures established or accepted by MNR, if no natural features were identified.
- The MNR confirms that the evaluation of the significance or provincial significance
 of the natural features was conducted using applicable evaluation criteria or
 procedures established or accepted by MNR.
- 4. The MNR confirms that the project location is not in a provincial park or conservation reserve.
- 5. The MNR confirms that the environmental impact study report has been prepared in accordance with procedures established by the MNR.

In accordance with Section 28(3)(c) and 38(2)(c), MNR also offers the following comments in respect of the project.

Preconstruction Monitoring

In accordance with Appendix D of MNR's NHA Guide, a commitment has been made to complete pre-construction assessment(s) of habitat use for the following candidate significant wildlife habitats, the results of which will be submitted to MNR:

- Waterfowl (Tundra Swan) Stopover and Staging Areas (WSST-01, WSST-31 and WSST-37);
- Waterfowl (Aguatic) Stopover and Staging Areas (WSSA-01 and WSSA-02);
- Raptor Wintering Area (RWA-01);
- Bat Maternity Colonies (BMA-051, BMA-090A, BMA-090B, BMA-098, BMA-102B, BMA-120, BMA-145, BMA-147, BMA-179, BMA-188, BMA-214 and BMA-297);
- Turtle Wintering Areas (TWH-01, TWH-02, TWH-03, TWH-04, TWH-05, TWH-06, TWH-07 and TWH-08):
- Reptile Hibernacula (RH-01, RH-02, RH-03 and RH-04);
- Bald Eagle and Osprey Nesting, Foraging and Perching Habitat (BEN-01 Jericho and BAL-001 Parkhill Interconnect);
- Turtle Nesting Habitat (TNH-02);
- Seeps and Springs (SS-01);
- Amphibian Woodland Breeding Habitat (AWO-01, AWO-02, AWO-03, AWO-04, AWO-05, AWO-06, AWO-08, AWO-09, AWO-10, AWO-11, AWO-12, AWO-13, AWO-16, AWO-17, AWO-19 and AWO-20);
- Amphibian Wetland Breeding Habitat (AWE-01, AWE-02, AWE-03, AWE-04 and AWE-05);
- Amphibian Movement Corridors (AMC-01).

MNR has reviewed and confirmed the assessment methods and the range of mitigation options. Pending completion of the assessments and determination of significance, the appropriate mitigation is expected to be implemented, as committed to in the environmental impact study.

Turbine 9

If pre-construction assessment(s) indicate Turbine 9 is located in Significant Wildlife Habitat for Waterfowl (Tundra Swan) Stopover and Staging Areas (WSST-37), **MNR** does not support the construction of this turbine.

Post-Construction Monitoring

A commitment has been made in the Environmental Impact Study to conduct post-construction monitoring and if determined necessary, implement mitigation measures. For the Jericho Wind Energy Centre this includes the following significant natural features, the results of which will be submitted to MNR:

Bat Maternity Colonies (BMA-143, BMA-155, BMA-168, BMA-216, BMA-217 and BMA-382);

The following candidate significant natural features will also be monitored post-construction if they are deemed significant during pre-construction surveys, the results of which will be submitted to MNR:

- Waterfowl (Tundra Swan) Stopover and Staging Areas (WSST-01, WSST-31 and WSST-37);
- Raptor Wintering Area (RWA-01):
- Bat Maternity Colonies (BMA-051, BMA-090A, BMA-090B, BMA-098, BMA-102B, BMA-120, BMA-145, BMA-147, BMA-179, BMA-188, BMA-214 and BMA-297)
- Reptile Hibernacula (RH-01, RH-03 and RH-04)
- Bald Eagle and Osprey Nesting, Foraging and Perching Habitat (BEN-01 Jericho and BAL-001 Parkhill Interconnect);
- Turtle Nesting Habitat (TNH-02);

- Amphibian Woodland Breeding Habitat (AWO-01, AWO-02, AWO-03, AWO-04, AWO-05, AWO-06, AWO-08, AWO-09, AWO-10, AWO-11, AWO-12, AWO-13, AWO-16, AWO-17, AWO-19 and AWO-20);
- Amphibian Wetland Breeding Habitat (AWE-01, AWE-02, AWE-03, AWE-04 and AWE-05);
- Amphibian Movement Corridors (AMC-01).

In addition to the NHA and EIS, an Environmental Effects Monitoring Plan (EEMP) that address post-construction mortality monitoring and mitigation for birds and bats must be prepared and implemented. Environmental Effects Monitoring Plans for birds and bats must be prepared in accordance with MNR Guidelines and should be reviewed by MNR in advance of submitting a REA application to MOE in order to minimize potential delays in determining if the application is complete. Comments provided by the MNR with respect to the EEMP must be submitted as part of the application for a REA.

This confirmation letter is valid for the project as proposed in the natural heritage assessment and environmental impact study, including those sections describing the Environmental Effects Monitoring Plan and Construction Plan Report. Should any changes be made to the proposed project that would alter the NHA, MNR may need to undertake additional review of the NHA.

Where specific commitments have been made by the applicant in the NHA/EIS with respect to project design, construction, rehabilitation, operation, mitigation, or monitoring, MNR expects that these commitments will be considered in MOE's Renewable Energy Approval decision and, if approved, be implemented by the applicant.

In accordance with S.12 (1) of the Renewable Energy Approvals Regulation, this letter must be included as part of your application submitted to the MOE for a Renewable Energy Approval.

Please be aware that your project may be subject to additional legislative approvals as outlined in the Ministry of Natural Resources' *Approvals and Permitting Requirements Document*. These approvals are required prior to the construction of your renewable energy facility.

If you wish to discuss any part of this confirmation letter, please contact Jim Beal at Jim.Beal@ontario.ca or 705-755-3203.

Sincerely,

Kazia Milian

Planning Coordinator Southern Region MNR

CC Jim Beal, Renewable Energy Operations Team, Coordinator, MNR
Mitch Wilson, District Manager, Aylmer District, MNR
Narren Santos, Environmental Approvals Access & Service Integration Branch, MOE
Zeljko Romic, Environmental Approvals Access & Service Integration Branch, MOE
Jessica MacKay Ward, Ecologist, AECOM

Ministry of Natural Resources Ministère des Richesses naturelles Ontario

Renewable Energy Operations Team 300 Water Street 4th Floor, South Tower Peterborough, Ontario K9J 8M5

February 7, 2013

Jericho Wind, Inc. 390 Bay Street, Suite 1720 Toronto, ON, M5H 2Y2

RE: Modifications to the Jericho Wind Energy Centre Project Location

Dear Mr Tom Bird,

The Ministry of Natural Resources (MNR) has received the document dated December 10, 2012 which describes modifications to the Jericho Wind Energy Centre project location made subsequent to MNR's letter confirming the Natural Heritage Assessment in respect of the project.

Upon review of the modifications, MNR is satisfied that the Natural Heritage Assessment requirements of Ontario Regulation 359/09 have been met. Please add this letter as an addendum to the confirmation letter issued February 7, 2013 for the Jericho Wind Energy Centre project.

If you wish to discuss any part of this letter please contact Jim Beal at jim.beal@ontario.ca or 705-755-3203.

Sincerely,

Kazia Milian

Planning Coordinator Southern Region MNR

Jim Beal, Renewable Energy Operations Team, Coordinator, MNR
Mitch Wilson, District Manager, Aylmer District, MNR
Narren Santos, Environmental Approvals Access & Service Integration Branch, MOE
Zeljko Romic, Environmental Approvals Access & Service Integration Branch, MOE
Jessica MacKay Ward, Ecologist, AECOM

Ministry of Natural Resources Ministère des Richesses naturelles Ontario

Natural Resources
Renewable Energy Operations Team
300 Water Street
4th Floor, South Tower
Peterborough, Ontario K9J 8M5

February 7, 2013

Jericho Wind, Inc. 390 Bay Street, Suite 1720 Toronto, ON, M5H 2Y2

RE: Modifications to the Jericho Wind Energy Centre Project Location #2

Dear Mr Tom Bird,

The Ministry of Natural Resources (MNR) has received the document dated January 2013 and received January 29, 2013 which describes modifications to the Jericho Wind Energy Centre project location made subsequent to MNR's letter confirming the Natural Heritage Assessment in respect of the project.

Upon review of the modifications, MNR is satisfied that the Natural Heritage Assessment requirements of Ontario Regulation 359/09 have been met. Please add this letter as an addendum to the confirmation letter issued February 7, 2013 and re-confirmation letter issued February 7, 2013 for the Jericho Wind Energy Centre project.

If you wish to discuss any part of this letter please contact Jim Beal at iim.beal@ontario.ca or 705-755-3203.

Sincerely,

Kazia Milian

Planning Coordinator

Southern Region MNR

cc Jim Beal, Renewable Energy Operations Team, Coordinator, MNR
Mitch Wilson, District Manager, Aylmer District, MNR
Narren Santos, Environmental Approvals Access & Service Integration Branch, MOE
Zeljko Romic, Environmental Approvals Access & Service Integration Branch, MOE
Jessica MacKay Ward, Ecologist, AECOM



Appendix B

Field Notes

Appendix B1. Ecological Land

Classification (ELC),

Vascular Plant Inventory and

Incidental Wildlife

Appendix B2. Woodland Breeding Bird

Species of Conservation

Concern Surveys

Appendix B3. Turtle Wintering Area

Evaluation of Significance

Surveys



Appendix B1. Ecological Land Classification (ELC), **Vascular Plant Inventory and Incidental Wildlife**



FIC	Map #: NA 90-	T-Line	Polygon: C	umi-l					
	Surveyor(s):	Date:	Time	start: 11:50an					
Community Description and	RA AW	Aug 1, 2	1013	finish: 12,150°					
Classification	UTMZ:	UTMZ:	U	TMN:					
Polygon De	scription								
System	Substrate	Topographic Feature	Plant Form	State of the state					
☐ Wetland ☐ Aquatic Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☐ Bedrock ☐ History ☐ Natural ☐ Cover	☐ Organic☐ Mineral Soil☐ Parent Min.☐ Acidic Bedrk☐ Basic Bedrk☐ Carb. Bedrk	□ Lacustrine □ Riverine □ Bottomland □ Terrace ☑ Valley Slope ☑ Tableland □ Roll. Upland □ Cliff □ Talus □ Crevice/Cave □ Alvar □ Rockland	□Plankton □Submerged □Floating-LV ☑Graminoid □Forb □Lichen □Bryophyte ☑Deciduous □Coniferous □Mixed	/D.					
⊠Open ⊠Shrub □Treed		□Beach / Bar □Sand Dune □Bluff		☐Savannah ☐Woodland ☐Forest ☐Plantation					
Stand Description									
	Layer HT CVR Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)								
1 3 2	PINSYLU			1					
2 3 2	FRAPENN.		_						
3 4 2		> CORRACE							
4 6 4	FESTUCA S	P. > POA PRAT	> BOLALT						
HT Codes: 7 < 0.2m CVR Codes: 0 = none			3 >2-6m 2 >6-2: 60%	5m 1 >25m					
Stand Composition	on: Size Class Ar	nalysis: C <10	0 10-24	N 25-50 N >50					
	Standing	-	——————————————————————————————————————	N 25-50 N >50					
BA:	Deadfall	/ Logs: R <10	10-24	25-50 🗘 >50					
Abundance Codes:	N = None R = Ra	are O = Occasional	A = Abundant						
Com. Age: 🔀	Pioneer XY	oung Mid-A	ge Ma	ature Old Growth					
Ecosite:		<u> </u>	100	de: Ciani					
Vegetation		1		de: CIM					
Type:			6	cumi-1					
Inclusion:			Co	de:					
Complex:				de: CIAT I					
Community Profile Diagram/Comments									
Natas									
Notes:									

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	1914	Species	7 .	Tally 1	$\overline{}$	Tally 2	Tally:	3	Tall		Tota		Rel. Avg
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_/	Mois	ture Regime											

Plant Species List 2012

		, ,	_		2012			_	_	_			_	_	_
Trees & Shrubs	1	2	3 4	1 5	Tree & Shrubs	1	2	3	4	5	Graminolds	1	2	3	4
Conifers Balsam Fir (Abies balsamea)		\vdash	+		Deciduous White Oak (Quercus alba)	┝	⊢	Н			Grasses Giant Redtop (Agrostis gigantea)	┝	Н	\vdash	_
Common Juniper (Juniperus communis)	0	H	+	+	Bur Oak (Quercus macrocarpa)	╁	\vdash	Н			Redtop (Agrostis stolonifera)		Н	\vdash	\dashv
Eastern Red Cedar (Juniperus virginiana)	ľ		I	I	Red Oak (Quercus rubra)	匚					Awnless Brome (Bromus inermis)	Ŋ			
Tamarack (Larix laricina)	Ц	Ш	\perp	1	Alder Buckthorn (Rhamnus alnifolia)	oxdapprox					Bromus			\Box	
Norway Spruce (Picea abies) White Spruce (Picea glauca)	Н	Н	+	+	Common Buckthorn (Rhamnus cathartica)	├	\vdash		Н	_	Blue-joint Grass (Calamagrostis canadensis)	ПΛ	Н	Н	4
Black Spruce (Picea gradica)	Н	+	+	+	Smooth Sumac (Rhus glabra) Staghorn Sumac (Rhus hirta)	h	Н	Н	\dashv	-	Orchard Grass (Dactylis glomerata) Poverty Oat Grass (Danthonia spicata)	N,	\vdash	Н	\dashv
Jack Pine (Pinus banksiana)	Н	\vdash	十	+	Wild Black Currant (Ribes americanum)	۳		Н	\dashv	Н	Quack Grass (Elymus repens)	H	Н	\vdash	\dashv
Red Pine (Pinus resinosa)			1		Prickly Gooseberry (Ribes cynosbati)			П			Virginia Wild Rye (Elymus virginicus)		П	\dashv	
Eastern White Pine (Pinus strobus)			\perp		Swamp Black Currant (Ribes lacustre)						Elymus			\Box	
Scotch Pine (Pinus sylvestris)	R	-	+	+	Red Currant (Ribes rubrum)	Н	Ш	Н	\dashv	4	- 111	L	Ш	\vdash	_
Canada Yew (Taxus canadensis) Eastern White Cedar (Thuja occidentalis)	Н	+	+	+	Ribes Black Locust (Robinia pseudo-acacia)	-	-	Н	\dashv	\dashv	Fowl Manna Grass (Glyceria striata) Glyceria	-	Н	\dashv	\dashv
Eastern Hemlock (Tsuga canadensis)	Н		+	1	Prickly Rose (Rose acicularis)			Н	-	\dashv	Rice Cut Grass (Leersia oryzoides)	Н	\vdash	\dashv	\dashv
				1	Smooth Rose (Rosa blanda)			\vdash	1		Tall Fescue (Lolium arundinaceum)		П	\dashv	\exists
		\Box	I	\perp	Multiflora Rose (Rosa multiflora)						Muhlenbergia				
Deciduous		\perp	+	\perp	Rosa				_		Witch-grass (Panicum capillare)			\Box	
Manitoba Maple (Acer negundo)	Н	+	+	+-	Com. Blackberry (Rubus allegheniensis)	Н	Н	\vdash	-		Panicum (St. 1)	Ш	\sim	\dashv	4
Black Maple (Acer nigrum) Norway Maple (Acer platanoides)	Н		+	+	Wild Red Raspberry (Rubus idaeus) Black Raspberry (Rubus occidentalis)	Н	Н	\dashv	\dashv		Reed Canary Grass (Phalaris arundinacea) Timothy (Phleum pratense)	0	L	\dashv	\dashv
Red Maple (Acer rubrum)		-	+	t	Purple-fl. Raspberry (Rubus odoratus)	\vdash	Н	\vdash	\dashv		Common Reed (Phragmites australis)	h	Н	\dashv	\dashv
Silver Maple (Acer saccharinum)	П	\top	\top	+	Dwarf Raspberry (Rubus pubescens)		Н	\dashv	7		Canada Blue Grass (Poe compressa)	۲	\dashv	\dashv	1
Freeman's Maple (Acer X freemanii)			I	I	Rubus						Fowl Meadow Grass (Poa palustris)	П	\Box	\exists	7
Sugar Maple (Acer saccharum)	Ц	\perp	┸		Peach-leaved Willow (Salix amygdeloides)	П			\Box		Kentucky Bluegrass (Poe pratensis)	E		\supset	\Box
Mountain Maple (Acer spicatum)	H	-	1	-	Bebb's Willow (Salix bebbiana)	Н	Н	_	4	_	Yellow Foxtail (Setaria pumila)	Ц	凵	[_[
Speckled Alder (Alnus incana) Downy Serviceberry (Amelanchier erborea)	\vdash	+	+	+	Pussy Willow (Salix discolor) Missouri Willow (Salix eriocephala)	Н	Н	\dashv	+	4	Green Foxtail (Setaria viridis)	V	\dashv	\dashv	4
Serviceberry (Amelanchier arborea)	Н	+	+	+	Sandbar Willow (Salix eriocepnala)	Н	Н	\dashv	+	\dashv	Festura	ᄖ	\dashv	+	4
Yellow Birch (Betula alleghaniensis)	Н		+		Shining Willow (Salix lucida)	Н	Н	\dashv	1	\dashv		Н	\dashv	+	-
White Birch (Betula papyrifera)			I		Black Willow (Salix nigra)				_		<u> </u>	Н		_	7
European Birch (Betula pendula)	П	T	T		Slender Willow (Salix petiolaris)				\Box				╛		コ
Blue Beech (Carpinus caroliniana)	\sqcup	+	1	1	Salix	Ц	Ц	_	4	_[\Box	J	J
Bittemut hickory (Carya cordiformis Shagbark Hickory (Carya ovata)	\vdash	+	+	+	Hybrid Crack Willow (Salix X rubens)	Н	Н	-	+	-		Н	_	\dashv	4
Climbing Bittersweet (Celastrus scandens)	Н	+	+	+	Black-berried Elder (Sambucus nigra) Red-berried Elder (Sambucus racemosa)	Н		\dashv	\dashv	\dashv		Н	\dashv	\dashv	4
Common Hackberry (Celtis occidentalis)	H	+	+	+	Buffaloberry (Shepherdia canadensis)	Н	\vdash	\dashv	+	┪	Sedges	Н	\dashv	+	\dashv
Buttonbush (Cephalanthus occidentalis)	П	\top	1	T	Eur. Mountain Ash (Sorbus aucuparia)	П		┪	T	T	Drooping Wood Sedge (Carex arctata)	Н	-	+	7
Altleaved Dogwood (Cornus alternifolia)			I		Narrow Meadow-sweet (Spiraea alba)				1		Golden-fruited Sedge (Carex aurea)		\exists	\exists	\exists
Silky Dogwood (Cornus amomum)	Ц	\perp	\perp		Common Lilac (Syringa vulgaris)			\Box	\Box		Graceful Sedge (Carex gracillima)		\Box	\exists	\Box
Bunchberry (Cornus canadensis)		+	╀		Poison-ivy (Toxicodendron rydbergii)	Ц	Ц	4	\dashv		Inland Sedge (Carex interior)		_	4	4
Gray dogwood (Cornus racemosa) Round-leaved Dogwood (Cornus rugosa)	W	+	+		Climbing Poison-ivy (Toxicodendron radicans) White Elm (Ulmus americana)	\vdash		-	+		Bladder Sedge (Carex intumescens)	-	\dashv	+	4
Red-osier Dogwood (Cornus sericea)	Н	+	+	╁	Siberian Elm (Ulmus pumila)	Н	\vdash	-	+		Lake-bank Sedge (Carex lacustris) Hop Sedge (Carex lupulina)	\dashv	\dashv	+	+
American Hazel (Corylus americana)	Н	+	+		Slippery Elm (Ulmus rubra)	H	\vdash	+	+		Pennsylvania Sedge (Carex pensylvanica)	\dashv	+	+	+
Beaked Hazel (Corylus cornuta)			1		Low Blueberry (Vaccinium angustifolium)	П	\Box	1	1		Awl-fruited Sedge (Carex stipata)		+	+	†
Cockspur Thorn (Crataegus crus-galli)	\Box	\perp	\perp			R.		\Box	\Box		Fox Sedge (Carex vulpinoidea)		\Box	I	I
English Hawthom (Crataegus monogyna)	Н	+	\bot	Н	Hobblebush (Viburnum lantanoides)	Ľ	\Box	_	4		Carex	_	_	\dashv	4
Large-fruited Thorn (Crataegus punctata) Crataegus	\vdash	+	+	\vdash	Nannyberry (Viburnum lentago) Guelder-Rose (Viburnum opulus)	Н		\dashv	+		Carex	\dashv	\dashv	\dashv	+
Crataegus	\vdash	+	+	Н	Downy Arrow-wood (Vib. rafine squianum)	H	-	\dashv	+		Carex	\dashv	+	+	+
Bush Honeysuckle (Diervilla Ionicera)		+	$^{+}$		Riverbank Grape (Vitis riparia)	H		+	+	\rightarrow	Carex	\dashv	+	+	+
Russian Olive (Elaeagnus angustifolia)			I		Am. Prickly-ash (Zanthoxylum americanum)				\neg	\rightarrow	Carex	_	\dashv	+	7
Autumn Olive (Elaeagnus umbellata)	W				Mulberry	U	\Box	\Box	\Box	\rightarrow	Carex		\Box	\Box	I
Run. Strawberry-bush (Euonymus obovata)	\dashv	-	+	Н	- 1		`-	\dashv	4	\rightarrow	Carex	_	4	4	4
American Beech (Fagus grandifolia) Glossy Buckthorn (Frangula alnus)	\dashv	+	+	Н		\vdash	\dashv	\dashv	\dashv		Carex		+	+	4
White Ash (Fraxinus americana)	\dashv	+	╁	Н	Ferns & Allies	\dashv	\dashv	+	+		Carex		+	+	+
Black Ash (Fraxinus nigra)	1	+	+	Н	Lady Fem (Athyrium filix-femina)		\dashv	\dashv	+		Carex	-	+	+	+
Green Ash (Fraxinus pennsylvanica)	N		Ι		Rattlesnake Fern (Botrychium virginianum)	\Box	_		_		Cyperus	7	+	+	+
Vitch-hazel (Hamamelis virginiana)	I	I	I		Bulbet Bladder Fern (Cystopteris bulbifera)				1		Redroot Spike-rush (Eleocharis erythropoda)		_		_
Vinterberry (llex verticilata)		-	1	\square	Spin. Wood Fern (Dryopteris carthusiana)	Ц		\perp	\perp		Eleocharis	\Box	J	I	I
lutternut (Juglans cinerea) llack Walnut (Juglans nigra)	i à	+	+	\vdash	Crested Wood Fern (Dryopteris cristata)	Ц	-	-	+		Hard-stem Bulrush (Schoenoplectus ecutus)	_	\downarrow	+	4
common Privet (Ligustrum vulgare)	М	+	+	Н	Marginal Wood Fern (Dryopteris marginalis) Dryopteris	\dashv	+	+	+		Three-square Bulrush (Sch. pungens) Soft-stem Bulrush (Sch. tabernaemontani)	\dashv	+	+	+
picebush (Lindera benzoin)	\dashv	+	1	Н	Ostrich Fern (Matteuccia struthiopteris)	\dashv	\dashv	+	+		Dark-green Bulrush (Scirpus atrovirens)	\dashv	+	+	+
ly Honeysuckle (Lonicera canadensis)		╛	İ	П	Sensitive Fern (Onoclea sensibilis)	1	7	+	+		Wool-grass (Scirpus cyperinus)	\dashv	+	+	+
Glaucous Honeysuckle (Lonicera dioica)	П	T	L		Cinnamon Fem (Osmunda cinnamomea)			I	I				丁	\top	t
Morrow's Honeysuckle (Lonicera morrowii)	4	1	1	Ш	Interrupted Fern (Osmunda claytoniana)	\Box	_[1	Ţ	1		_	I	\perp	I
artarian Honeysuckle (Lonicera tatarica)	\dashv	+	\perp	\vdash	Royal Fern (Osmunda regalis)		1	4	4	-		4	7	1	4
Common Apple (Malus pumila) White Mulberry (Morus alba)	-	+	+		Christmas Fem (Polystichum acrostichoides)	1	-	4	+	+		4	4	+	4
weet Gale (Myrica gale)	+	+	+		Eastern Bracken-fern (Pteridium aquilinum) Marsh Fern (Thelypteris palustris)	\dashv	+	+	+	+	Other Graminoids	+	+	+	+
ronwood (Ostrya virginiana)	\dashv	+	H	H	The participation of the parti	\dashv	+	+	+	- 1	Broad Bur-reed (Sparganium eurycarpum)	+	-	+	+
hicket-creeper (Parthenocissus inserta)	1	1	Γ	П	1		_	1	_		Narrow-leaved Cattail (Typha angustifolia)	1	+	+	+
inebark (Physocarpus opulifolius)	\Box	T		口		И	\Box	\Box	1		Broad-leaved Cattail (Typha letifolia)	J	丁	I	丁
alsam Poplar (Populus balsamifera)	1	_	\perp	\sqcup	Scouring-rush (Equisetum hyemale)	1	_[\perp	1		Broad-leaved Cattail (Typha X glauca)	I	Ţ	I	I
astern Cottonwood (Populus deltoides) arge-tooth Aspen (Populus grandidentata)	+	+	-	\vdash	Variegated Horsetail (Equisetum variegatum)	+	4	+	+		Articulated Rush (Juncus articulatus)	4	4	+	+
rembling Aspen (Populus grandidentata)	-	+	+	\vdash	Equisetum Ground-cedar(Lycopodium digitatum)	\dashv	+	+	+		Soft Rush (Juncus effusus) Path Rush (Juncus tenuis)	+	+	4	+
weet Cherry (Prunus avium)	+	+	1	Н	Shining Clubmoss (Lycopodium lucidulum)	\dashv	+	+	+		funcus	+	+	+	+
Pin Cherry (Prunus pensylvanica)	7	_ _		П	Ground-pine (Lycopodium obscurum)	+	+	+	+		luncus	+	+	+	+
Black Cherry (Prunus serotina)	1			口		力	丁	J	_	Ĵ			†	力	t
Choke Cherry (Prunus virginiana)	T			口				I	I	T	<u> </u>		土	I	1
Prunus			<u> </u>		000	T	I	\perp	1	1		I	\perp	\perp	\perp
Dominant: represented by large numbers; generally Feirly common (saturated in ELC): generally wide					cover or >25% vegetation cover in any one stratum fairly large numbers of individual clumps; usually forming >	4/100				_			_	_	_
- Uncommon (=Occasional in ELC): generally wide:	DLEV Shuas	u repr d soet	eren	indiv	rtainy large numbers of individual clumps; usually forming > duels or represented by one or more clumps of many individ	uale luale	grou (mc	ind c st.sr	over acie:	s wi	If fell into this ceteropy!	_		_	_
- Rare: represented in the polygon by less than about i													_	_	_
ap Number: NA - 90 T-LINE	1			Π	CWMI-	4	T	T	T	T		T	Т	T	T
	2	T	Г	П	MAD2-7	5	7	7	T	1		+	+	+	+
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. +	-	†	\vdash				-+-		-+-			-+-		-+-

Plant Species List 2012

	2012															
Dicot Herbs - Asteraceae	1	2	3	4	5	Dicot Herbs	1	2	3	4	5	Dicot Herbs	1	2	3 4	5
Common Yarrow (Achillea millefolium)	Γ	T	П			Shepherd's Purse (Capsella bursa-pastoris)						Kidney-leaf Buttercup (Ranunculus abortivus)		T	工	
White Snakeroot (Ageratina altissima)	╀	╀	╄	-	_	Cutleaf Toothwort (Cardamine concatenata)	╀	$oldsymbol{oldsymbol{\perp}}$		Ш		Tall Buttercup (Ranunculus acris)	\perp	4	\perp	П
Com. Ragweed (Ambrosia artemisiifolia) Giant Ragweed (Ambrosia trifida)	╁	+	╀		\vdash	Toothwort (Cardamine diphylla) Penn. Bitter-cress (Cardamine pensylvanica)	╀	-	-	Н		Hooked Buttercup (Ranunculus recurvatus) Ranunculus	\dashv	+	+	H
Field Pussytoes (Antennaria neglecta)	t	+-	+	Н		Cardamine	╀	٠		Н	Н	Sheep Sorrel (Rumex acetosalla)	+	+	+	H
Artemisia	T	T	T	П	Г	Blue Cohosh (Caulophyllum thalictroides)	$^{+}$	\vdash		Н		Curly-leaf Dock (Rumex crispus)	Ħ	+	+	H
Common Burdock (Arctium minus)	L	\perp	Γ			Mouse-ear Chickweed (Cerastium fontanum)						Bitter Dock (Rumex obtusifolius)		I	I	口
Nodding Beggar-ticks (Bidens cernua)	L	┸	┖	Ш		Turtlehead (Chelone glabra)	\perp					Bloodroot (Sanginaria canadense)		\perp	I	
Devil's Beggar-ticks (Bidens frondosa)	Ļ	+-	╀	Н		Spotted Water-hemlock (Cicuta maculata)	┼		Н	Н		Black Snakeroot (Sanicula marilandica)	\perp	4	\bot	Н
Spotted Knapweed (Centaurea biebersteinli Brown Knapweed (Centaurea jacea)	╁	+	⊢	Н	Н	Water-hemlock (Cicuta virosa) Enchanter's Nightshade (Circaea lutetiana)	+	\vdash		Н	Н	Bouncing Bet (Saponaria officinalis) Marsh Skullcap (Scutellaria galericulata)		+	+	Н
Chicory (Cichorium intybus)	t	+	\vdash	Н	-	Carolina Spring Beauty (Claytonia caroliniana	╌		Н	Н	Н	Mad Dog Skullcap (Scutellaria lateriflora)	+	+	+	\vdash
Canada Thistle (Cirsium arvesnse)	t	$^{+}$	Т			Virginia Spring Beauty (Claytonia virginica)	1	1	Н	Н	Н	White Campion (Silene latifolia)	+	+	+	\vdash
Bull Thistle (Cirsium vulgare)	Γ	I				Virgin's-bower (Clematis virginiana)						Bladder Campion (Silene vulgaris)			I	
Horseweed (Conyza canadensis)	╀	╀	\perp			Field Bindweed (Convolvulus arvensis)	\perp					Hemlock Water-parsnip (Sium suave)	\Box	I	I	П
Daisy Fleabane (Erigeron ennus)	╀	+-	⊢	Н		Dog-strangling Vine (Cynanchum rossicum)	1	\vdash	Н	Ш	Ц	Bitter Nightshade (Solanum dulcamara)	\dashv	4	\bot	Н
Philadelphia Fleabane (Erig. philadelphicus Erigeron	1-	+	\vdash	Н	Н	Wild Carrot (Daucus carota) Deptford Pink (Dianthus armeria)	μ		Н	\vdash	-	Black Nightshade (Solanum ptychanthum) Grassleaf Stitchwort (Stellaria graminea)	+	+	+	H
Joe-pye-weed (Eupatorium maculatum)	t	+	\vdash	Н	-	Squirrel-corn (Dicentra canadensis)	✝		Н			Common Chickweed (Stellaria media)	+	+	+	Н
Boneset (Eupatorium perfoliatum)	L		Г			Dutchman's-breeches (Dicentra cucullaria)	T		П			Early Meadow-rue (Thalictrum dioicum)	\top	.	十	Н
Large-leaved Aster (Eurybia macrophylia)	L			-		Wild Teasel (Dipsacus fullonum)	\Box					Tall Meadow-rue (Thalictrum pubescens)		I	I	
Flat-top Goldenrod (Euthamia graminifolia)	L	┡	┡			Wild Cucumber (Echinocystis lobate)	╄	Ш	Ш	Щ	_	Field Penny-cress (Thlaspi arvense)	\perp	4	\perp	П
Orange Hawkweed (Hieracium aurantiacum Field Hawkweed (Hieracium caespitosum)	}_	-	⊢	Н		Viper's Bugloss (Echium vulgare)	╀		Н	Н	4	Foamflower (Tiarella cordifolia)	+	+	+	Н
Hieracium	H	+	\vdash	Н	-	Northern Willow-herb (Epilobium ciliatum) Hairy Willow-herb (Epilobium hirsutum)	╁		Н	\vdash	٦	Star-flower (Trientalis borealis) Red Clover (Trifolium pretense)	+	+	+	₩
Elecampane (Inula helenium)	1	T	\vdash	Н	Н	Small-fl. Willow-herb (Epilobium parviflorum)	H	Н	Н	Н	-	White Clover (Trifolium repens)	+	+	+	Н
Prickly Lettuce (Lactuca serriola)						Epilobium	İ		П			Trifolium		t	\top	П
Lactuca	\Box			口		Worm Mustard (Erysimum cheiranthoides)						Stinging Nettle (Urtica dioica)	I	I	I	
Ox-eye Daisy (Leucanthemum vulgare)	1	-		Н	Ц	Euphorbia (Output August 1		Ц	Ц		Greater Bladderwort (Utricularia vulgaris)	\perp	Ţ	\perp	\Box	
Pineapple-weed (Matricaria discoidea)			\vdash	$\vdash \vdash$	\dashv	Hemp Nettle (Galeopsis tetrahit)	-	Н	H	Ц	_	Common Mullein (Verbascum thapsus)	+	+	+	\vdash
Tall White Lettuce (Prenanthes altissima) Black-eyed Susan (Rudbeckia hirta)	u	┰	\vdash	\vdash	\dashv	Wild Madder (Galium mollugo) Marsh Bedstraw (Galium palustre)	+	\vdash	Н	\dashv	-	Blue Vervain (Verbena hastata) White Vervain (Verbena urticifolia)	+	+	+	\vdash
Tall Goldenrod (Solidago altissima)	H	+	1	Н	Н	Sweet-scented Bedstraw (Galium triflorum)	$^{+}$	Н	Н	\forall	-	Water Speedwell (Veron. anagallis-aquatica)	+	+	+	Н
Blue-stern Goldenrod (Solidago caesia)		Τ		П		Galium	Т					Common Speedwell (Veronica officinalis)	+	+	+	Н
Canada Goldenrod (Solidago canadensis)	Г	\Box				Spotted Geranium (Geranium maculatum)						Veronica	I	I	I	
Zig-zag Goldenrod (Solidago flexicaulis)	┡	┡		Ш		Herb-robert (Geranium robertianum)	<u> </u>	Ш	Ш		_	Cow Vetch (Vicia cracca)	\bot	\bot	\perp	
Giant Goldenrod (Solidago gigantea)	⊢	₽	Н	Н		Yellow Avens (Geum aleppicum)	╀	Н	Н	\dashv	\dashv	Vicia	+	+	+	Н
Early Goldenrod (Solidago juncea) Gray Goldenrod (Solidago nemoralis)	⊢	\vdash		Н	-	White Avens (Geum canadense) Urban Avens (Geum urbanum)	⊢	Н	Н	\dashv	┥	Periwinkle (Vinca minor) Dog Violet (Viola conspersa)	+	+	+	Н
Solidago	┢	\vdash	Н	Н	Ť	Dame's Rocket (Hesperis matronalis)	┢	Н	Н	\dashv	┪	Yellow Violet (Viola pubescens)	+	+	+-	Н
Field Sow-thistle (Sonchus arvensis)	Т	\top	7	П		Virg. Water-leaf (Hydrophyllum virginianum)	١.	Н	Н		┪	Corn. Blue Violet (Viola sororia)	+	+	+	Н
Sonchus						Com. St. John's-wort (Hypericum perforatum)	W					Viola			İ	П
Heart-leaf Aster (Symph. cordifolium)	L	╄	Ш	Ш	4	Spotted Jewelweed (Impatiens capensis)		Ш	Ц		_	Michigan Lily	T	\perp	I	П
Heath Aster (Symphyotrichum ericoides)		\vdash	Ш	Н		Wood Nettie (Laportea canadensis)	Н	Н	Щ	-	4		4	\perp	1	Н
Tall White Aster (Symph. lanceolatum) Calico Aster (Symphyotrichum lateriflorum)	┝	\vdash	Н	Н		Motherwort (Leonurus cardiaca) Field Peppergrass (Lepidium campestre)	Н	Н	\vdash	\dashv	\dashv		+	+	+	Н
New England Aster (Symph. novee-angliae)	Н			H		Eur. Gromwell (Lithospermum officinale)	Н	Н	Н	\dashv	-		+	+	+	Н
Purple-stem Aster (Symph. puniceus)						Butter & Eggs (Linaria vulgaris)					╛		+	+	+	Н
Common Tansy (Tanacetum vulgare)	L	L	Ш	Ш		Great Lobelia (Lobelia siphilitica)			Ц	_	_	tu .	I	I	工	
Common Dandelion (Taraxacum officinale)	┡	\vdash	Н		-	Lobelia				4	4	Monocot Herbs	\bot	\perp	\perp	Ш
Com. Goatsbeard (Tragopogon pratensis) Coltsfoot (Tussilago farfara)	⊢	\vdash	Н	\vdash	\dashv	Cut-leaf Bugleweed (Lycopus americanus) Northern Bugleweed (Lycopus uniflorus)		Н		-		Water-plantain (Alisma plantago-aquatica) Wild Leek (Allium tricoccum)	+	+	+	Н
Constoot (123312go tartara)	┢	Н	Н	Н	\dashv	Fringed Loosestrife (Lysimachia ciliata)		Н		1		Jack-in-the-pulpit (Arisaema triphyllum)	+	+	+	Н
	Т					Moneywort (Lysimachia nummularia)		П		T		Asparagus (Asparagus officinalis)	†	$^{+}$	+	Н
						Lysimachia					\Box	Wild Calla (Calla palustris)				
	L	Ш	Ш			Purple Loosestrife (Lythrum salicarie)	Ш	Ш		4		Bluebead-lily (Clintonia borealis)	1	1	\perp	П
	H	\vdash	Н	\dashv		Black Medick (Medicego lupulina) Alfalfa (Medicego sativa)	Н	\vdash		\dashv		Garden Lily-of-valley (Convallaria majalis)	+	+	╀	Н
	┝	-	Н	\vdash		White Sweet-clover (Melilotus alba)	H	Н	-	\dashv		Yel. Lady's Slipper (Cypripedium parviflora) Canada Waterweed (Elodea canadensis)	+	+	+	Н
5	Н	H	Н	\vdash		Yellow Sweet-clover (Melilotus officinalis)	Н			\dashv		Helleborine (Epipactis helleborine)	+	+	+	Н
	Г		П			Wild Mint (Mentha arvensis)		Н	1	1		Yellow Trout Lily (Erythronium americanum)	+	+	+	Н
Other Dicot Herbs			Ш	\Box		Wild Bergamot (Monarda fistulosa)			\Box	\Box		Blue-flag Iris (Iris versicolor)		I	L	
White Baneberry (Actaea pachypoda)	L	Н	Ш	_		Small Forget-me-not (Myosotis laxa)	Ш	Ш	_	4		Orange Day Lily (Hemerocallus fulva)	4	1	╀	Ш
Red Baneberry (Actaea rubra) Tall Agrimony (Agrimonia gryposepala)	⊢	Н	\vdash	-		Forget-me-not (Myosotis scorpioides)	Н	\vdash	\dashv	-		Lesser Duckweed (Lemna minor)	-	\bot	+	Н
Garlic Mustard (Alliaria petiolata)	\vdash	Н	H	\dashv		Water-cress (Nasturtium officinale) Com. Evening-primrose (Oenothera biennis)	Н	H	+	+		Starry Duckweed (Lemna trisulca) Wild Lily-of-valley (Maienthemum canadense)	+	+	+	Н
Green Amaranth (Amaranthus retroflexus)	_	\vdash	П			Sweet-cicely (Osmorhiza berterii)	Н	\Box	\forall	7		False Solom Seal (Maianthemum racemosum	1	+	+	Н
Hog-peanut (Amphicarpa bracteata)						Yellow Wood-sorrel (Oxalis stricta)			T	7		Star False Solomon (Maianthemum stellatum)	\top	\top	\top	П
Pearly Everlasting (Anaphalis margaritacea)	Ĺ	П	П			Wild Parsnip (Pastinaca sativa)	П	口	•	I		True Solomon Seal (Polygonatum pubescens)		T	I	口
Canada Anemone (Anemone canadensis)	L	Н	Н	-		English Plantain (Plantago lanceolata)	Ш	Ш	-	-		Pickerel-weed (Pontederia cordata)	\perp	+	╄	Ш
Ivy Hepatica (Anemone acutiloba) Thimbleweed (Anemone virginiana)	\vdash	Н	\vdash	\dashv		Common Plantain (Plantago major)	Н	Н	4	4		Curty-leaf Pondweed (Potamogeton crispus) Sago Pondweed (Potamogeton pectinatus)	+	+	+	Н
Purple Angelica (Angelica atropurpurea)	-	Н	Н	\dashv		Rugel's Plantain (Plantego rugelii) May-apple (Podophyllum peltatum)	Н	Н	\dashv	+	\rightarrow	Sago Ponoweed (Potamogeton pectinatus)	+	+	+	Н
Indian Hemp (Apocynum cannabinum)		П	Н			Pale Smartweed (Polygonum lapathifolium)	Н	H	+	+		Potamogeton	+	+	+	H
Wild Sarsaparilla (Aralia nudicaulis)						ady's-thumb (Polygonum persicaria)			1	╛		Broad-leaved Arrowhead (Sagittaria latifolia)		Ť	1	口
Spikenard (Aralia racernosa)	Ĺ	Ш	Ц	4		Virginia Knotweed (Polygonum virginianum)	П	\Box	_[1	\Box	Blue-eyed-grass (Sisyrinchium montanum)	I	T	\vdash	口
Wild Ginger (Asarum canadense)	<u> </u>	П	\sqcup	\dashv		Polygonum	Н	Ц	4	4		Herb. Carrion Flower (Smilax herbacea)	1	1	+	Ш
Swamp Milkweed (Asclepias incarnata) Common Milkweed (Asclepias syriaca)	\vdash	Н	Н	-		Polygonum Rough Cinquefoil (Potentilla norvegica)	Н	\dashv	+	+		Bristly Greenbrier (Smilax hispida) Nodding Ladies' Tresses (Spiranthes cernua)	+	+	+	Н
Yellow Rocket (Barbarea vulgaris)	\vdash	Н	Н	\dashv		Rough-fruited Cinquefoil (Potentilia recta)	Н	\dashv	+	+		Rose Twisted-stalk (Streptopus lanceolatus)	+	+	+-	Н
False Nettle (Boehmeria cylindrica)			\Box			Common Cinquefoil (Potentilla simplex)	Н		\dashv	\dagger		Skunk-cabbage (Symplocarpus foetidus)	\top	+	+	Н
Black Mustard (Brassica nigra)						Potentilla						Purple Trillium (Trillium erectum)	丁			口
Marsh-marigold (Caltha palustris)		Ц	Ц	4		leal-all (Prunella vulgaris)	П		I	\Box		White Trillium (Trillium grandiflorum)	\perp	I	F	口
Creeping Bellflower (Campanula rapunculoid	es	\sqcup	\sqcup	\dashv	- 1	Shinleaf (Pyrola elliptica)	Н	_	-	-	-	_arge-flowered Bellwort (Uvularia grandiflora)	1	1	1	Ш
D - Dominant: represented by large numbers; generally	for	nine	>10	% arr	JUP	cover or >25% vegetation cover in any one stretum	Ц				_			1.	-	닉
						fairly large numbers of individual clumps; usually forming	>109	6 gro	und i	oova	r			_		\dashv
U - Uncommon (≔Occasional in ELC) : present as wide.	spre	ad s	catte	red l	ndiv	duals or represented by one or more clumps of many indivi						Il fall into this catergory)			_	ᅱ
R - Rare: represented in the polygon by less than about	íve	indiv	idual	s or	sma	i clumps										ゴ
Map Number: NA 90 - T-Line	1	1	U	3	-	1/CWT1	4	_				<u> </u>	Τ	Γ		
	2	LF	A	M	Ĵ		5						T	T		\Box
	3	L					П						1	T		П

	011111			AECON
BLW LER	GSH	Map #:	90 (T-LINE)	
AUG 2 2013		Time Started:	11:50	
Ros AMKEN	Assmlu.	Time Finished:	12:15	
e/Shrub Birds, Osprey	Breeding/F	eeding, Bald Eagle Br	eeding/Nesting Habitat	
, SWM, SWD)				
 No	L	Yes (if yes, photogi	aph and complete the fo	llowing)
location, e.g. in tree/or	n built structi	ure; material; evidenc	e of recent use; birds pre	sent):
	f	:-	1.	
it (note riparian areas i	r present, ev	idence of disturbance):	
<i>t</i>				
·	-			g Birds
iw-	54412) (1	_		
ent: No	L			
		Area of standing wa	ter delineated on field m	ар
% o _l	pen water: _	% er	nergent vegetation:	
ng water (permanent p	ool, evidenc	e of annual spring floo	oding, etc):	
ata of sharoling habitat				
ite oi snoreline nabitat	. –			
of cover in open wate	r habitat:	17		
of cover in surroundin	g habitat:	8.		
nce (e.g. cattle grazing):			
aterfowl, amphibians,	turles (e.g. bi	roken eggs), marsh br	eeding birds:	
****	1/ D (Halian Danisia - E	alle sile sile	
TTTComplete	vernai Pooi i	Habitat Description F	orm	
	present:			
∠ No	L	Yes (if yes, photogra	aph and complete the fol	llowing)
	% slope:	······································	open canopy (m):	
or stone pile (compos	ition/materia	al, dimenstions, etc):		
Inding habitat /tung 9	ahundansa s	f cover evidence of d	sturbanco etali	
mumg nabitat (type & a	andingatice o	i cover, evidence of a		****
IFOC FOLLS	OD CHC CHALL	SWD)		
	OD, SWC, SWM,	-	aph and complete the fol	llowina \
A		Description (indicate		
	BLW LEA 2013 ZOR AMKEN Pe/Shrub Birds, Osprey, SWM, SWD) No location, e.g. in tree/or at (note riparian areas in the control of the contr	Archive Annum. Re/Shrub Birds, Osprey Breeding/F, SWM, SWD) No Rocation, e.g. in tree/on built struction (note riparian areas if present, ever/Nesting, Amphibian Breeding, T AS1, SAM1, SAF1, SWD, SWT1, SWT2) Rent: No % open water: ng water (permanent pool, evidence the of shoreline habitat: of cover in open water habitat: of cover in surrounding habitat: nce (e.g. cattle grazing): aterfowl, amphibians, turles (e.g. but the composition of the cover in surrounding habitat: No % slope: or stone pile (composition/material noting habitat (type & abundance of the cover, SWM, SWC, SWC, SWM, SWC, SWC, SWM, SWC, SWM, SWC, SWC, SWC, SWC, SWC, SWC, SWC, SWC	BLW (FR GSH Map #: Time Started: Time Finished: Poly 2 2 3 Time Started: Time Finished:	BLW LER GSH Time Started: 11:50 Core Article Articl

NHA Site Investigation - Significant Wildlife Habitat Form

AECOM

_	Breeding Habitat (Bank an	d Cliff Swallows)					
(CUM1, CUT1, CUS, BLO1, BLS:	ill, pits, steep slope or rock	face presents						
Clouing Dank, Sandy II	No		ves, photograph and complete the following)					
UTMs:		lana di di	(e.g. aggregate pit, bridge):					
Evidence of use by bar	nk or cliff swallows (provide	number of nest	s):					
Colonial Nesting Grou	ınd Breeding Birds, Shoreb	ird Migratory St	opover Areas					
(BBO1, BBO2, BBS1, BBS2, BBT	1, BBT2, SDO1, SDS2, SDT1, MAM1, M	IAM2, MAM3, MAM4,	MAM5)					
Shoreline of lake, large	e river or large wetland pres	sent:	1					
	No	Yes (<i>if</i> y	es, photograph and complete the following)					
UTMs:		Rocky is	land or peninsula present:					
Mudflat present:		Evidenc	e of disturbance (e.g. cattle grazing):					
Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover):								
Description of habitat	(size of rocky outcrop/mua	flat, substrate/so	oil type, type and abundance of cover):					
Raptor Winter Feedin	g and Roosting, Open Cour	ntry or Shrub/Ea	rly Successional Bird Breeding Habitat					
	Dha, FOC, FOD, FOM with a CUM, CUT	-	-					
Large meadow, old field or generally open habitat (e.g. сим, сиs, сит, сиs, сиw) present:								
Large open habitat pre	esent: No	Yes (if y	es, photograph and complete the following)					
UTMs:			e of disturbance (e.g. cattle grazing):					
Description of habitat	(abundance of food plants t	for rodents, abur	ndance of perches, height of vegetation):					
			U					
Old-growth or Mature	Forests, Interior Forest Br	eeding Birds						
	WD. Mature forest (>60 years) prese	_						
Mature forest present			es, photograph and complete the following)					
UTMs:		Age of o	ldest trees:					
	ce (e.g. selective cutting):							
		ındance of snags	and/or downed woody debris, etc):					
Photo #	Location or Subject	Photo #	Location or Subject					
	200000000000000000000000000000000000000		Location of Subject					
		i						

Species of Conservation Concern Habitat and Incidental Wildlife - Jericho



Study Area: NA - 90 - Thine Jericha	Fleld Staff: RA AW	Time Started: 11:50an
Date (yyyy-mm-dd): 2013 - 08 - 0	Feature No.: NA 90 - Thing	Time Finished: 12 15 of
Observed Species List		

Species Code	UTM EV	Notes	Species Code	UTM	EV	Notes
COYE	sm					
INBIN	sn					
GACA	sr					
CEWA	50					
Ancr	50					
nooo	sn					
SWSP	Sn			*****		
BL3A	sn		VI 30.00			
Ango	SH					
NOCA	sm					200000
				- 11 20		
				2010 778.085		
		-222-22-22				

Note: E

Evidence Codes (EV)

Breeding Bird (Possible)

SH=Suitable Habitat, SM=Singing Male;

Inhabits fishless ponds, lakes and boggy swamps.

Breeding Bird (Probable)

T-Territory, D=Display, P=Pair, N=Nest Building, V= Visiting Nest; A=Anxiety Behavior;

Other Wildlife Evidence:

Breeding Bird (Confirmed)

DD=Distraction, NU=Used Nest, FY=Fledged Young, NE=Eggs, NY=Young, FS=Foos/Faecal sack, AE=Nest Entry

OB=observed, VO=Vocalization, CA=Carcass, DP=Districtive Parts, HO=House/Den, FY=Eggs/young, TK-tracks, FE=Feeding evidence, SC= Scat, Si=Other signs (specify)

Other Wildlife Evid

PLANTS			
Species Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
American Gromwell (Lithospermum latifolium) - S3 Bloom Time - Spring	Grows in rich deciduous woodlands, wooded floodplains, and shaded riverbanks as well as along the edges of woodlands	FOD7	Y (N) UTM:
A Moss (Astomum muehlenbergianum)- S2 Bloom Time - Spring	Thin soil over level outcrop ledges and on soil under grasses in open prairie.	ALO, TPO	Y (N) UTM:
Autumn Coral -root (Corallorhiza odontorhiza) - S2 Bloom Time - Summer to Fall	Found growing in openings of red pine or white pine plantations as well as dry sandy woods.	FOM1, FOM2, CUP3	(Y) N UTM: N/C - As A
Broad Beech Fern (Phegopteris hexagonoptera) – SC Bloom Time- not a flowering plant	Species grows in rich, mature deciduous woods in southern Ontario.		Y (N) UTM:
Burning Bush (Euonymus atropurpureus) – S3	Grows in dry to moist thickets, valleys, and forest edges. Similar Species: European Burning Bush (Euonymus europaeus). Distinctive Feature: Burning Bush has hairs on the underside of leaves while the European species does not.		Y (N) UTM:
Carey's Sedge (Carex careyana) –S2 <u>Bloom Time</u> – May and June	Occurs in rich deciduous woods, often on floodplains and slopes and mesic to dry- mesic hardwood forests.	FOD6, FOD7, FOD9, SWD	Y (N) UTM:
Caughuawaga Hawthron (Crataegus suborbiculata) – S1	Occurs in old fields, poorly managed pastures, fencelines and roadsides.	CUM1) CUS1, CUT1	Y N UTM: N/O
Round-leaved Hawthorn (Crateegus lumaria) - S3?	Occurs in old fields, poorly managed pastures, fencelines and roadsides.	CUM), CUS1, CUT1	Y N UTM: N/O
Chinese Hemlock Parsley (Conioselinum chinense) - S2 <u>Bloom Time</u> -summer to fall	Swampy places with deciduous trees, white cedars, tamarack; springy river banks, creek borders, wet borders of streams & rivers. Also calcareous seepage slopes.	SWC1,SWC3,SWC4,SWM1, SWM2,SWM4,SWM5, SWM8	Y (N) UTM: -
Cream Vlolet (Viola striata) – S3 <u>Bloom Time</u> - March- June).	Inhabits rich floodplain forest and low, wet woods.	FOD8, FOD7, FOD9, SWM, SWD	Y (N) UTM:

OAO, SA, SWM, SWD

Y(N/UTM:

Double --striped Bluet (Enallagma basidens)-S3

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho



Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
opecius .	TREDICAL DESCRIPTION	ELU	manual Present (T/A; OTM; description of naplitat if present)
Eastern Green-violet (Hybanthus concolor) - S2 Bloom Timemid March to August	Occurs in rich, wet-mesic floodplain forests as well as mesic forests over limestone. Includes floodplains and river banks.	ALT1, FOD7	Y (N) UTM:
Green Dragon (Arisaema dracontium) - SC/S3 <u>Bloom</u> <u>Time</u> – May and June	Species found in damp deciduous forest and along river streams. Particularly Maple forest and forest dominated by Red Ash and White Eim.	FOD8, FOD7, FOD9	Y (N) UTM:
Harbinger-of-spring (Erigenia bulbosa) - S3 <u>Bioom</u> <u>Time</u> – early to late April	Occurs in rich, moist deciduous woods, especially on floodplains.	FOD8, FOD7, FOD8, FOD9	
Hazei Dodder (Cuscuta coryli) -SH	Occurs in open, moist tall-grass prairie and meadows - parasitic on Aster, Hellathus, Monarda, Rubus, Solidago.	RBO, TPO2, CUM1)	Y)N UTM:
Leonard's Small Skulicap (Scutellaria parvula) –S3 Bloom Time – late Spring to early Summer	Occurs on open, rocky ground and prairies.	ALO, TPO	Y (N) UTM:
Mead's Sedge (Carex meadil) -S2 <u>Bloom Time</u> -late spring to early summer	Occurs In prairies and moist or dry open areas.	TPO CUM	Y N UTM: 1/Q
Ovate Beak Grass -81 <u>Bloom Time</u> - mid Summer	prefers riparian woodlands ¹⁴ ; floodplain swamps and river banks.	FOD6, FOD7, FOD9, SWD	Y (N) UTM:
Pawpaw (Asimina triloba) –S3 <u>Bloom Time</u> – March- May	Occurs In moist deciduous woods and stream banks.	FOD6, FOD7, FOD9	Y (N) UTM:
Perfoliate Tinker's-weed (Triosteum perfoliatum) – S1 Bloom Time – May, June, July	Grows In rich, deciduous woods.		Y (П) UTM:
Pumpkin Ash (Fraxinus profunda) – S2?	This species is a wetland obligate and only grows in bottomiand swamps and floodplains. Distinctive Feature: the base of the trunk swells outward, resembling a pumpkin in larger trees.		Y (N) UTM:
Riddell's Goldenrod (Oligoneuron riddellii)-SC	Riddell's Goldenrod grows in wet habitats such as wet marshes, moist prairies, fens, old fields and seepy banks.	ALO, TPO, CUM)	(Y) N UTM:
Sheilbark Hickory (Carya laciniosa) – S3	Typically found in wet or wet -mesic deciduous forests and along stream banks. Similar Species: Shagbark Hickory. Distinctive Feature: Larger leaves and leaflets of 7.		Y (N) UTM:
Shumard Oak (Quercus shumardii) –SC	Species inhabits mesic and mesic -hydric sites on clay and clay-loam soils with poor drainage.		Y (N) UTM:
Silm-flowered Muhly (Muhlenbergie tenuiflore) S2	Found in rich deciduous forest dominated by either oak or beech-maple. It can also occur on rocky or sandy solls, wooded dunes, hillsides, and riverbanks.	SDT1, FOD5, FOD9	Y (N) UTM:
Southern Tickseed (Bidens coronata)-S2	Inhabits dry to moist sandy fields and sandy openings in prairies.	TPO, CUM1	Y (N) UTM:
Stiff Gentian (Gentianella quinquefolia) - S2 <u>Bloom</u> <u>Time</u> – late summer to mid fall	Found in moist soils of streambanks, edges of woods, wet prairies, marshy meadows, bluffs and wooded hillisides.	BLO1, BLS1, BLT1, TPO2, TPS2, TPW2, MAM2, FOD7	(Y) N UTM: (Y/C (ASA)
Stiff Goldenrod (Solidago rigida) –S3 <u>Bloom Time</u> - early June to end of November	Occurs on dry open ground, particularly in prairie remnants; along readsides and railway, and waste places.	TPO1, CUM)	Y) N UTM: N/C
Tall Tickseed (Coreopsis tripteris)-S2 <u>Bloom Time</u> -late summer to early fall.	Occurs in prairies and open woods, and thickets.	TPO,TPS,TPW,FOD1,FOD2, FOD3, FOD4, FOD5, CUT1	
Winged -Loosestrife (Lythrum alatum)-S3 <u>Bloom</u> <u>Time</u> - mid to late summer	found in prairies, meadows, open woods, thickets and wet disturbed areas.	TPO, CUM1, FOM, FOD, CUM1, CUT1, MAM2	Y) N UTM: N(C)
Woodland Bulrush (Scirpus expansus) - S1	Grows In seepage areas, stream banks, and marshes. It is predominately found in the Asuable River.		Y (v) UTM:
MAMMALS			

Species Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Little Brown Bat (Myotis lucifugus)-SC	This species roosts in caves, quarries, tunnels, hollow trees or buildings but	FOD, SWD	Y (N) UTM:
	requires nearby wetlands and forest edges for hunting.		
Northern Long-eared Bat (Myotis septentrionalis)-SC	The Northern Long-eared Bat roosts and hibernates in mines, caves, and man-	FOD, SWD	Y (N) UTM:
	made structures but prefers hollow trees in wooded areas		
Tri-colored Bat (Perimyotis subflavus)-SC	The Tricoloured Bat is one of the common bats in Ontario. It prefers to roost in	FOD, SWD	Y(N) UTM:
	trees, cliff crevices, and caves usually in open woodlands that are near water		

Species of Conservation Concern Habitat and incidental Wildlife - Jericho



Species of Conservation	Concern Habitat and Incidental Wildi	ite — Jericno	ALCOM
Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Woodland Vole (Microtus pinetorum)-SC	The Woodland Voie inhabits mature deciduous forests where it can burrow into	FOD	Y (N) UTM:
	loose sandy solis and deep humus. Other habitats also include grasslands,		
	meadows, and orchards		
REPTILES			
Species Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Eastern Ribbonsnake (Thamnophis sauritus) - SC	Assessed as SWH. Record species if found.	MAM, MAS	not required.
Milksnake (Lampropeltis triangulum) -SC	Assessed as SWH. Record species if found.	CUM, CUT	not required.
Northern Map Turtle (Grapternys geographica) -SC	Large water bodies with soft bottoms & aquatic veg; basks on logs, rocks, beaches,	OAO, SA	Y (N) UTM:
	grassy edges; may nest at some distance from water; aquatic comdors (e.g.		
	stream) required for movement.	L	
INSECTS			
Species Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Azure Bluet (Enallagma aspersum)i- S3	Found in fishless ponds and other small water bodies. Distinctive Features: Male	OAO	Y UTM:
	- Large Blue eyespot and mostly black dorsal surface on abdomen with a blue tip;		
	Females: Green eyespots and almost all black dorsal surface and black tip. Similar	1	
	Species: Common Blue Damseifly – has more blue than black on abdomen.		
Blue-ringed Dancer (Argia sedula) - S2	Found in streams and rivers of small to medium size and where there is dense		Y (N) UTM:
	herbaceous vegetation along the banks or shores.	1	
Dusky Dancer (Argia translate) -S3	Inhabits small to medium, slow flowing sandy or rocky streams or large rivers in	OAO, SA, SWM, SWD	Y (N) UTM:
-	quite open areas or with wooded banks.		
BIRDS			
Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Baid Eagle (Haliaeetus leucocephalus)-SC	Assessed as SWH. Record species if found.	8	not required.
Hooded Warbier (Wilsonia Citrina) - SC	An area-sensitive species requiring large tracts of mature, closed canopy,	-	Y (N) UTM:
	deciduous forests. They generally nest above ground and prefer forests with tail		
	trees that are along stream bottoms or at ravine edges		
Louisiana Waterthrush (Seiurus motacilla) -SC	Mature forests along steeply sloped ravines adjacent to running water. Trees,	FOD, FOM	Y (N) UTM:
	bushes, exposed roots, cliffs, banks and mossy logs are favoured nesting spots.		
	Riparian woodlands are preferred stopover sites during migration.		<u> </u>

ELC Community Description and Classification	Map #: \\7_JE Surveyor(s): MAR UNCELLE M	23424,3426 A Date:	Time st	art: 16.00 sh: 1 , 5		
Polygon De						
System	Substrate	Topographic Feature	Plant Form	Community		
Matural Cover	□Organic ☑Mineral Soil □Parent Min. □Acidic Bedrk □Basic Bedrk □Carb. Bedrk	□ Lacustrine □ Riverine □ Bottomland □ Terrace □ Valley Slope □ Tableland □ Roll. Upland □ Ciff □ Talus □ Crevice/Cave □ Alvar □ Rockland □ Beach / Bar □ Sand Dune □ Bluff	□Plankton □Submerged □Floating-LVD. □Graminoid □Forb □Lichen □Bryophyte □Deciduous □Coniferous □Mixed	□Lake □Pond □River □Stream □Marsh □Swamp □Fen □Bog □Barren □Meadow □Prairie □Thicket □Savannah □Woodland □Forest ☑Piantation		
Layer HT CVR Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than > Greater Than = About Eq al To) 1						
Stand Composition	Standing Standing	Snags: ○ <10 / Logs: ○ <10	R 10-24 N 10-24 O	25-50 ル >50		
Abundance Codes:	N = None R = Ra		A = Abundant			
Com. Age:	Pioneer Y Yo	oung Mid-A	ge Mature	Old Growth		
	Itural decid	deciduous.		CUP1-3		
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Complex: Code: Community Profile Diagram/Comments On 1997 1997 1997 1997 1997 1997 1997 199						

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Depth from zero Texture

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scription						
Substrate	Topographic Feature	Plant Form	Community			
Organic	Lacustrine	Plankton	Lake			
			□Pond □River			
Acidic Bedrk	Terrace	Graminoid	Stream			
☐Basic Bedrk	☐Valley Slope	□Forb	☐Marsh			
☐Carb. Bedrk	Zableland Zableland		Swamp			
	Roll. Upland	☐ Bryophyte	∐Fen □Bog			
	DTalue		Barren			
	Crevice/Cave		Meadow			
	Alvar		Prairie			
	Rockland		Thicket			
	Beach / Bar		Savannah			
			☐Woodland ☐Forest			
			☐Plantation			
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Tree Tally by Species Prism Factor									
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Decision P. (Albert Simplessee)						2012											
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Winterberry (flex verificiates)		7		\Box			\dashv	+	+	+			+	+	+	+	1
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Morrow's Honeysuckle (Lonicera morrowii) Interrupted Ferri (Osmunda claytoniana) Tartarian Honeysuckle (Lonicera tatarica) Royal Ferri (Osmunda regalis) Christmas Ferri (Polystichum ecrostichoides) White Mulberry (Morus alba) Eastern Bracken-ferri (Petridium aquilinum) Other Graminolds Increwood (Ostrye virginiana) Increwood (Ostrye virginiana) Broad Bur-reed (Sparganium eurycarpum) Increwood (Ostrye virginiana) Incr	Slaucous Honeysuckle (Lonicera dioica)	2				Innamon Fern (Osmunda cinnamomea)	+	1	+	1	ľ	grade (aderpade of politica)	+	+	1	+	1
Common Apple (Mailus pumila) Christmas Fern (Polystichum acrostichoides) White Mulberry (Morus alba) Eastern Bracken-fern (Plenidium aquilinum) Marsh Fern (Thelypterils palustris) Marsh Fern (Thelypterils palustris) Dricket-creeper (Parthenocissus inserta) Thicket-creeper (Parthenocissus inserta) Ninebark (Physocarpus opulifolius) Bisaad Bur-reed (Sparganium eurycarpum) Thicket-creeper (Parthenocissus inserta) Ninebark (Physocarpus opulifolius) Field Horsetail (Equisetum arvense) Bisaad-leaved Cattail (Typha angustifolia) Ninebark (Physocarpus opulifolius) Bisaad-leaved Cattail (Typha latifolia) Bisaad-leaved Cattail (Typha lati	forrow's Honeysuckle (Lonicera morrowii)	"	I	П		nterrupted Fern (Osmunda claytoniana)		1		T			1	1	1	1	1
White Mulberry (Morus alba) Eastam Bracken-fern (Pteridium equilinum) Sweet Gale (Myrica gale) Incomood (Ostrya virginiana) Thicket-oreaper (Parthenocissus inserts) Ninebark (Physocerpus opulifolius) Broad Bur-reed (Sparganium eurycarpum) Narrow-leaved Cattall (Typha angustifiolia) Ninebark (Physocerpus opulifolius) Belaam Poplar (Populus belaamiliera) Eastem Cottonwood (Populus delicides) Variegated Horsetall (Equisetum arvense) Broad-leaved Cattall (Typha Intifiolia) B		1	1	П			\Box	I	T	Γ			I	I	Γ	Γ	1
Sweet Gale (Myrica gale) Marsh Ferri (Thelypteris palustris) Broad Bur-reed (Sparganium eurycarpum) Narrow-leaved Cattall (Typha angustriolla) Ninebark (Physocarpus opulifolius) Balsam Poplar (Populus belsamifera) Scouring-rush (Equisetum arvense) Broad-leaved Cattall (Typha angustriolla) Blasam Poplar (Populus belsamifera) Scouring-rush (Equisetum hyemale) Broad-leaved Cattall (Typha lattiolla) Broad-leaved Cattall (Typha lattioll		+	+	H			_	+	+	+	L		1	1	F	F	1
Ironwood (Ostrya virginiana) Broad Bur-reed (Sparganium eurycarpum) Thicket-creeper (Parthenocissus inserts) Namow-leaved Cattall (Typha angustifolia) Namow-leaved Cattall (Typha latifolia) Namow-leaved Cattall (Typha latifolia) Namow-leaved Cattall (Typha latifolia) Namow-leaved Cattall (Typha latifolia) Bload-leaved Cattall (Typha latifolia) Broad-leaved Cattall (Typha latifolia) Broad-leaved Cattall (Typha latifolia) Broad-leaved Cattall (Typha latifolia) Regulater (Populus planet (Populus delitokies) Variegated Horsetall (Equisetum variegatum) Articulated Rush (Juncus afficulatus) Articulated Rush (Juncus afficulatus) Soft Rush (Juncus afficulatus) Soft Rush (Juncus afficulatus) Patt Rush (Juncus afficulatus) Patt Rush (Juncus effusus) Patt Ru		+	+	-			+	+	+	+	H	Other Courses de	+	+	-	-	1
Thicket-creeper (Parthenocissus inserta) Ninebark (Physocarpus opulifolius) Balsam Poplar (Populus belasmifera) Eastem Cottornwood (Populus deltokles) Large-tooth Aspen (Populus grandidentata) Large-tooth Aspen (Populus grandidentata) Large-tooth Aspen (Populus termuloides) Soft Rush (Juncus articulatus) Large-tooth Aspen (Populus termuloides) Ground-cedar (Lycopodium digitatum) Path Rush (Juncus effusus) Path Rush (Juncus tenuis) Sweet Cherry (Prunus avium) Pin Cherry (Prunus avium) Pin Cherry (Prunus avium) Ground-pine (Lycopodium obscurum) Juncus D- Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum F- Fairly common (*Abundant in ELG): penerally widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory) Map Number: 1) 7 5 2 344 7 345 1		+	+	++	-1"		+	+	+	+	F.		+	+	+	-	1
Sinch Field Horsetall (Equisetum arvense) Broad-leaved Cattall (Typhe latifolia)	hicket-creeper (Parthenocissus inserta)	2					1	+	1	1			+	+	\vdash	1	1
Eastern Cottonwood (Populus deltokles) Variegated Horsetall (Equisetum variegatum) Articulated Rush (Juncus articulatus) Equisetum Soft Rush (Juncus effusus) Trembling Aspen (Populus grandidentsta) Ground-cedar(Lycopodium digitatum) Sweet Cherry (Prunus avium) Shining Clubmoss (Lycopodium incidulum) Juncus Plath Rush (Juncus tenuis) Shining Clubmoss (Lycopodium incidulum) Juncus Black Cherry (Prunus pensylvanica) Ground-pine (Lycopodium obscurum) Juncus Juncus Choke Cherry (Prunus syrotina) Choke Cherry (Prunus viginiane) Prunus D- Dominant: represented by large numbers: generally forming >10% ground cover or >25% vegetation cover in any one stratum F- Fairly common (*Abundent in ELG): generally widespread represented by fairly large numbers of individuals clumps; usually forming >10% ground cover U-Uncommon (*Abundent in ELG): generally widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory) R- Rars: represented in the polygon by less than about 8vs individuals or small clumps Map Number: 7 5 2 3 3 4 4		I	T	П				I	工	I			1			T	1
Large-tooth Aspen (Populus grandidentata) Equisetum Soft Rush (Juncus effusus) Trembling Aspen (Populus tremuloides) Ground-cedar(Lycopodium digitatum) Path Rush (Juncus tenuis) Sweet Cherry (Prunus avium) Pin Cherry (Prunus ensylvanica) Ground-pine (Lycopodium lucidulum) Juncus Juncus Black Cherry (Prunus serotine) Choke Cherry (Prunus virginians) Prunus D- Dominant: represented by large numbers: generally forming >10% ground cover or >25% vegetation cover in any one stratum F- Fairly common (*Abundant in ELG): generally videapread represented by fairly large numbers of individual clumps; usually forming >10% ground cover Unrommon (*Abundant in ELG): generally videapread scattered individuals or represented by one or more clumps of many individuals (most species will fail into this catergory) R- Rare: represented in the polygon by less than about the individuals or small clumps Map Number: 7 5 2 3 4 4		1	-				T	T	\perp				T	I		L	1
Trembling Aspen (Populus tremuloides) Ground-cedar(Lycopodium digitatum) Sweet Cherry (Prunus avium) Shining Clubmoss (Lycopodium incidulum) Juncus Juncus Black Cherry (Prunus serotine) Choke Cherry (Prunus serotine) Choke Cherry (Prunus virginiane) Prunus D- Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum F- Fairty common (*Abundant in ELC): generally widespread represented by feithy large numbers of individual chumps; usually forming >10% ground cover U- Uncommon (*Cocasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fell into this catergory) R- Rare: represented in the polygon by less then about five individuals or small clumps Map Number:		+	+	-			+	+	+	-			1	\perp	L	L	1
Sheet Cherry (Prunus avium) Shining Clubmoss (Lycopodium lucidulum) Juncus Ground-pine (Lycopodium obscurum) Juncus Black Cherry (Prunus serotine) Choke Cherry (Prunus virginiene) Prunus D- Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum F- Fairly common (~Abundant in ELC): generally widespread represented by fairly large numbers of individual chumps, usually forming >10% ground cover U-Uncommon (~Cocasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory) R- Rare: represented in the polygon by less then about five individuals or small chumps Map Number: 17		+	+	1			+	+	+	-			+	+	-	+	1
Pin Cherry (Prunus pensylvanica) Black Cherry (Prunus serotina) Choke Cherry (Prunus serotina) Prunus D- Dominant: represented by large numbers; generally forming >10% ground over or >25% vegetation cover in any one stratum D- Dominant: represented by large numbers; generally forming >10% ground over or >25% vegetation cover in any one stratum F- Fairly common (=Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps, usually forming >10% ground over U-Uncommon (=Cocasional in ELC): present as widespread sestered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory) R- Rare: represented in the polygon by less than about five individuals or small clumps Map Number:		+	+				+	+	+	+-			+	+	-	-	1
Black Cherry (Prunus serotine) Choke Cherry (Prunus virginiena) Prunus D- Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum D- Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum F- Fairly common («Abundant in ELC): generally widespread represented by finity large numbers of individual clumps; usually forming >10% ground cover U- Uncommon («Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory) R- Rare: represented in the polygon by less than about five individuals or small clumps Map Number: 117—TS-0, 340-1 343-6 1 CCC 7-3 4	In Cherry (Prunus pensylvanica)	I	I				1	1					1	1	1	1	1
Prunus D. Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum F- Fairity common (~Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover U. Uncommon (~Cocasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory) R. Rare: represented in the polygon by less then about five individuals or small clumps Map Number: 17		Ţ		П	J		\perp	I	I	L			1	İ		T	1
D - Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum F - Fairly common («Abundant in ELC) : generally widespread represented by fairly large numbers of individual clumps, usually forming >10% ground cover U - Uncommon («Occasional in ELC) : present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory) R - Rare: represented in the polygon by less than about five individuals or small clumps Map Number:) 17 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -		4		Ш			T	I	T		Ĺ		I				1
F - Fairly common ("Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming > 10% ground cover U - Uncommon ("Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory) R - Rare; represented in the polygon by less than about two individuals or small clumps Map Number: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1	00 > 41	<u> </u>		mar or S26M marketing and it am		1			L		I				1
U- Uncommon (=Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory) R- Rams: represented in the polygon by less than about tive individuals or small clumps Map Number: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							10%		nd ~	Wer					_	_	ł
R - Rams; represented in the polygon by less than about \$ve individuals or small clumps Iap Number: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- Uncommon (=Occasional in ELC) : present as wides;	0788	d scatt	ered h	ndivic	uals or represented by one or more clumps of many individ	uals	ino:	t apa	cies ×	dil 1	all into this catergory)		_	-		1
	- Rare: represented in the polygon by less than about fix	re in	dividu	els or s	small	clumps			7.0		-						1
	ap Number: 117_Ten 3404 /3486 1	J	Ι		T	CUPI-3	4	T	T				T	Т		Г	1
TY104 1,00 0 1 1 1 1 CANI - 1 5 1 1 1	12 May 17, 2012		$oldsymbol{\Gamma}$		J	CUMI-I	6	T	T	П			1	T			1
Burwyora: Whyte D'A a	PANDER ON DIA	Ţ	Ţ	$\Box T$	T		T	T	T	Т			1	T		Г	1

Plant Species List 2012

				2012				I delete
Dicot Herbs - Asteraceae	1	2 3	4 5		111	2 3	4 5	
ommon Yarrow (Achillea millefolium)	\perp	╨	11	Shepherd's Purse (Capselle burse-pastoris)	\vdash	+	+	Kidney-leaf Buttercup (Ranunculus abortivus) Tall Buttercup (Ranunculus acris)
hite Snakeroot (Ageratina altissima)	+	₩	₩	Cutleaf Toothwort (Cardamine concatenata)	++	+	+	Hooked Buttercup (Ranunculus recurvatus)
om. Ragweed (Ambrosia artemisiifolia)	+-	₩	₩	Toothwort (Cardamine diphylia)	+	+	-	Ranunculus
lant Ragweed (Ambrosia triffda)	+	1	++	Pann, Bitter-cress (Cardamine pensylvanica)	++	+	+	Sheep Sorrel (Rumex acetosella)
eld Pussytoes (Antennaria neglecta)	+	+	++	Cardamine Blue Cohosh (Caulophyllum thalictroides)	+	+	+	Curly-leaf Dock (Rumex crispus)
lemisia	+	+	++	Mouse-ear Chickweed (Cerastium fontenum)	H	+	+	Bitter Dock (Rumex obtusifolius)
mmon Burdock (Arctium minus)	+	+	++	Turtiehead (Chelone glabra)	+	+	-	Bloodroot (Sanginaria canadense)
dding Beggar-ticks (Bidens cemua)	+	++	+		+	+	+	Black Snakeroot (Sanicula marilandica)
vil's Beggar-ticks (Bidens frondosa)	با	+	+	Spotted Water-hemiock (Cicuta maculata)	\vdash	+	+	Bounding Bet (Saponaria officinalis)
otted Knapweed (Centaurea blebersteinli	4	\vdash	+	Water-hemlook (Clouta virosa)	+	+	-	
own Knapweed (Centaurea jacea)		\perp	1	Enchanter's Nightshade (Circaea lutetiana)	\vdash	+	-	Marsh Skutlcap (Scutellaria galericulata)
lcory (Cichorium Intybus)	\perp	\perp	\perp	Carolina Spring Beauty (Claytonia caroliniana)	\vdash	+	-	Mad Dog Skullcap (Scutellaria lateriflora)
nada Thistle (Cirsium arvesnse)	\perp	\perp	Ш	Virginia Spring Beauty (Claytonia virginica)	\vdash	\perp		White Campion (Silene latifolia)
Thistie (Cirsium vulgare)				Virgin's-bower (Clematis virginiana)	Н	\perp	_	Bladder Campion (Silene vulgaris)
rseweed (Conyza canadensis)	\perp	\perp		Field Bindweed (Convolvulus arvensis)	\vdash	1		Hemlock Water-parsnip (Sium suave)
sy Fleabane (<i>Erigeron annus</i>)	\perp			Dog-strangling Vine (Cynanchum rossicum)	Н			Bitter Nightshade (Solanum dulcamara)
ladelphia Fleabane (<i>Erig. philadelphicu</i> s	115	TAL		Wild Carrot (Daucus carota)	Щ	4		Black Nightshade (Solanum ptychanthum)
peron				Deptford Pink (Dianthus armeria)	\perp	\perp		Grassleaf Stitchwort (Stellaria graminea)
-pye-weed (Eupatorium maculatum)				Squirrel-com (Dicentra canadensis)	ш	\perp		Common Chickweed (Stellaria media)
neset (Eupatorium perfoliatum)				Dutchman's-breeches (Dicentra cucullaria)				Early Meadow-rue (Thalictrum diolcum)
ge-leaved Aster (Eurybia macrophylla)			П	Wild Teasel (Dipsacus fullonum)	. 1	À		Tall Meadow-rue (Thalictrum pubescens)
t-top Goldenrod (Euthamia graminifolia)		\Box		Wild Cucumber (Echinocystis lobata)		1		Fleid Penny-cress (Thiaspi arvense)
inge Hawkweed (Hieracium aurantiacum)			Viper's Bugloss (Echium vulgare)				Foamflower (Tiarella cordifolia)
d Hawkweed (Hieracium caespitosum)	m		\vdash	Northern Willow-herb (Epilobium ciliatum)	\Box			Star-flower (Trientalis borealis)
racium		\vdash		Hairy Willow-herb (Epilobium hirsutum)				Red Clover (Tritolium pratense)
campane (Inula helenium)	\Box	\vdash	11	Small-fl. Willow-herb (Epliobium parviflorum)				White Clover (Trifolium repens)
okly Lettuce (Lactuca serricia)	П	\vdash	11	Epilobium				Trifolium
tuca	1	+	11	Worm Mustard (Erysimum cheiranthoides)				Stinging Nettle (Urtica dioica)
eye Dalsy (Leucanthemum vulgare)	1	1	11	Euphorbia		\top		Greater Bladderwort (Utricularia vulgaris)
eye Daisy (Leucanmemum vuigare) eapple-weed (Matricaria discoldea)	+	1	+	Hemp Nettie (Galeopsis tetrahit)	1	11		Common Mullein (Verbascum thapsus)
	+	+	+	Wild Madder (Gallum mollugo)	+	+1		Blue Vervain (Verbena hastata)
White Lettuce (Prenanthes altissima)	+	+	++	Marsh Bedstraw (Gallum palustre)	1	11		White Vervain (Verbena urticifolia)
ck-eyed Susan (Rudbeckla hirta)	10	F	++	Sweet-scented Bedstraw (Galium triflorum)	+	+		Water Speedwell (Veron. anagaliis-aquatica)
Goldenrod (Solidago altissima)	110	F	++		+	+1	-	Common Speedwell (Veronica officinalis)
e-stem Goldenrod (Solidago caesia)	+	1	++	Gallum	+	+	-	Veronica (Veronica Olikarialis)
nada Goldenrod (Solidago canadensis)	+	1	++	Spotted Geranium (Geranium maculatum) Herb-robert (Geranium robertianum)	+	+		Cow Vetch (Vicia cracca)
zag Goldenrod (Solidago flexicaulis)	+	\vdash	++		+	+	+	
nt Goldenrod (Solidago gigantea)	\perp	\perp	\perp	Yellow Avens (Geum aleppicum)	\vdash	++	+	Vicia
ly Goldenrod (Solidago juncea)	\perp	\vdash	11	White Avens (Geum canadense)	\vdash	+	+	Periwinkle (Vinca minor)
y Goldenrod (Solidago nemoralis)	\perp	\perp	Ц.	Urban Avens (Geum urbanum)	\vdash	+	\perp	Dog Violet (Viole consperse)
dago	\perp			Dame's Rocket (Hesperis matronalis)	\vdash	+		Yellow Violet (Viola pubescens)
d Sow-thistle (Sonchus arvensis)				Virg. Water-leaf (Hydrophyllum virginianum)	\perp			Com, Blue Violet (Viole sororie)
ohus				Com. St. John's-wort (Hypericum perforatum)	\perp			Viola
art-leaf Aster (Symph. cordifolium)	\Box			Spotted Jewelweed (Impatiens capensis)	\perp			Orally Gran Wage in the Party
ath Aster (Symphyotrichum ericoides)	\Box			Wood Nettle (Laportea canadensis)				Fragar Visions BB
White Aster (Symph. lanceolatum)			П	Motherwort (Leonurus cardiaca)				
ico Aster (Symphyotrichum lateriflorum)	2			Field Peppergrass (Lepidium campestre)				
w England Aster (Symph. novae-anglise)				Eur. Gromwell (Lithospermum officinale)				
ple-stem Aster (Symph. puniceus)	1			Butter & Eggs (Linaria vulgaris)	\Box			
mmon Tansy (Tanacetum vulgare)	M	\vdash	11	Great Lobella (Lobella siphilitica)				
mmon Dandellon (<i>Taraxacum officinale</i>)	-	1.1	11	Lobella	1		\neg	Monocot Herbs
	- Way	14	++	Cut-leaf Bugleweed (Lycopus americanus)		11	+	Water-plantain (Alisma plantago-aquatica)
n. Goatsbeard (Tragopogon pratensis)	+	\vdash	+	Northern Bugleweed (Lycopus uniflorus)	+	+1	+	Wild Leek (Allium tricoccum)
tsfoot (Tussilago farfara)	+	+	+	Fringed Loosestrife (Lysimachia ciliata)	+	+	+	Jack-In-the-pulpit (Arisaema triphylium)
	+	+	+		+	+	+	Asperagus (Asperagus officinalis)
	+	+	++	Moneywort (Lysimachia nummularia)	+	+		Wild Calla (Calla palustris)
	+	\vdash	+	Lysimachia	+	+	-	
	\perp	\vdash	\vdash	Purple Loosestrife (Lythrum salicaria)	+	+	-	Bluebead-Illy (Clintonia borealis)
	\perp	\perp	₽	Black Medick (Medicago lupulina)	\vdash	+	_	Garden Lily-of-valley (Convallaria majalis)
				Alfalfa (Medicago sativa)	1	11		Yel, Lady's Slipper (Cypripedium parviflora)
				White Sweet-clover (Melliotus alba)	\perp	\perp		Canada Waterweed (Elodea canadensis)
				Yellow Sweet-clover (Melliotus officinalis)	П			Heiteborine (Epipactis helleborine)
				Wiid Mint (Menthe arvensis)				Yellow Trout Lily (Erythronium americanum)
Other Dicot Herbs		П		Wild Bergamot (Monarda fistulosa)				Blue-flag Iris (Iris versicolor)
ite Baneberry (Actaea pachypoda)				Small Forget-me-not (Myosotis laxa)	IT			Orange Day Lily (Hemerocallus fulva)
	10			Forget-me-not (Myosotis scorpioldes)				
I Baneberry (Accaea rubra)	+	\vdash	H	L nifetules for full conte engineering				Lesser Duckweed (Lemna minor)
	0	H	Ħ	Water-cress (Nasturtium officinale)	H	H	F	Lesser Duckweed (Lemna minor) Starry Duckweed (Lemna trisuica)
Agrimony (Agrimonia gryposepala)	Q.		Ħ	Water-cress (Nasturtium officinale)	H		ŧ	Lesser Duckweed (Lemna minor) Starry Duckweed (Lemna trisuica)
Agrimony (Agrimonia gryposepala) ilo Mustard (Alilaria petiolata)	Q			Water-cress (Nasturtium officinale) Com. Evening-primrose (Oenothera biennis)			ŧ	Lesser Duckweed (Lemna minor)
Agrimony (Agrimonia gryposepala) dic Mustard (Alliaria petiolata) en Amaranth (Amaranthus retroflexus)	Q			Water-cress (Nasturtium officinale) Com. Evening-primrose (Oenothera biennis) Sweet-cicely (Osmorhiza berteril)			ŧ	Lesser Duckweed (Lemna minor) Starry Duckweed (Lemna trisuica) Wild Lily-of-valley (Melanthemum canedense) False Solom Seal (Malanthemum recemosum)
Agrimony (Agrimonia gryposepala) tic Mustard (Alilaria petiolata) en Amaranth (Amaranthus retroflexus) peanut (Amphicarpa bracteata)				Water-cress (Nasturtium officinale) Com. Evening-primrose (Cenothera biennis) Sweet-cicely (Osmorhiza berterii) Yellow Wood-sorrel (Oxalis stricta)				Lesser Duckweed (Lemna minor) Starry Duckweed (Lemna trisuica) Wild Lily-of-valley (Maianthemum canadense) False Solom Seal (Maianthemum recemosum) Star False Solomon (Maianthemum stellatum)
Agrimony (Agrimonia gryposepala) ilio Mustard (Alliaria peticlata) ilio Mustard (Alliaria peticlata) peanut (Amphicarpa bracteata) rly Everlasting (Anaphalis margaritacea				Water-cress (Nasturtium officinale) Com. Evening-primrose (Oenothera biennis) Sweet-cicely (Osmorhiza berterii) Yellow Wood-sorrel (Oxalis stricta) Wild Parenip (Pastinaca sativa)				Lesser Duckweed (Lemna minor) Starry Duckweed (Lemna trisuica) Wild Lily-of-valley (Maianthemum canadense) False Solom Seal (Maianthemum racemosum) Star False Solomon (Maianthemum stellatum) True Solomon Seal (Polygonatum pubescens)
Agrimony (Agrimonia gryposepala) filo Mustard (Alliaria peticlata) en Amaranth (Amaranthus retroflexus) peanut (Amphicarpa bracteata) arly Everlasting (Anaphalis margaritacea nada Anemone (Anemone canadensis)				Water-cress (Nasturtium officinale) Com. Evening-primrose (Oenothera biennis) Sweet-cicely (Osmorhiza berteri) Yelliow Wood-sorrel (Oxalis stricta) Wild Parsnip (Pastinaca sativa) English Piantain (Piantago lanceolata)				Lesser Duckweed (Lemna minor) Starry Duckweed (Lemna trisuica) Wild Lily-of-valley (Maianthemum canadense) False Solom Sal (Maianthemum recemosum) Star False Solomon (Maianthemum stellatum) True Solomon Seal (Polygonatum pubescens) Pickerel-weed (Pontederia cordate)
Agrimony (Agrimonia gryposepala) ilic Mustard (Alliaria petiolata) en Amaranth (Amaranthus retroflexus) peanut (Amphicarps bracteata) rary Everlasting (Anaphalis margaritacea rada Anemone (Anamone canadensis) Hepatica (Anemone acutiloba)				Water-cress (Nasturtium officinale) Com. Evening-primrose (Cenothera biennis) Sweet-cicely (Osmorhiza berterii) Yeliow Wood-sorrel (Oxalis stricta) Wild Parsnip (Pastinaca sativa) English Plantain (Plantago lanceolata) Common Plantain (Plantago major)				Lesser Duckweed (Lemna minor) Starry Duckweed (Lemna trisuica) Wild Lily-of-valley (Maianthemum canadense) False Solom Seal (Maianthemum recemosum) Star False Solomon (Maianthemum stellatum) True Solomon Seal (Polygonatum pubescens) Pickerel-weed (Pontederia cordate) Curly-leaf Pondweed (Potamogeton crispus)
Agrimony (Agrimonia gryposepala) ilio Mustard (Alilaria peticiata) pen Amaranth (Amaranthus retroflexus) pearut (Amphicarpa bracteata) urly Everlasting (Anaphalis margaritacea rada Anemone (Anemone canadensis) Hepatica (Anemone acuttioba) mbleweed (Anemone virginiana)				Water-cress (Nasturtium officinale) Com. Evening-primrose (Oenothera biennis) Sweet-cicely (Osmorhiza berteril) Yellow Wood-sorrel (Oxalis stricta) Wild Parsnip (Pastinaca sativa) English Plantain (Plantago lanceolata) Common Plantain (Plantago major) Rugel's Plantain (Plantago major)				Lesser Duckweed (Lemna minor) Starry Duckweed (Lemna trisuica) Wild Lily-of-valley (Maianthemum canadense) False Solom Seal (Maianthemum recemosum) Star False Solomon (Maianthemum stellatum) True Solomon Seal (Polygonatum pubescens) Pickerel-weed (Pontederia cordata) Curly-leaf Pondweed (Potamogeton crispus) Sago Pondweed (Potamogeton pectinatus)
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	ildlife Habitat Form		AECOM
Study Area: Date:		SH Map #:	117- JER 3424, 342
Field Staff:	May 17, 2012	Time Started:	16:00
	Charlotte M. Ma	TIED A Time Finished:	17:15
	16°C, sunny (10		
(FET1, FOC, FOM, FOD, SWC			
Nest bowls present:	No	Yes (if yes, photo	graph and complete the following)
UTMs:		Number of n	
Decription of nests (ocation, e.g. in tree/on built	structure; material; evider	nce of recent use; birds present):
Description of habita	nt (note riparian areas if preso	ent, evidence of disturband	ce):
Waterfowls Stopove	er/Nesting, Amphibian Bree	ding. Turtle Nesting/Over-	wintering, Marsh Breeding Birds
(CUM1, CUT1, MAM, MAS, S.	AS1, SAM1, SAF1, SWD, SWT1, SWT2)	(FOC, FOM, FOD, SWC, SWM	, SWD, BOO1, FEO1)
Standing water prese	ent: No	Yes (if yes, photog	graph and complete the following)
UTMs:			vater delineated on field map
Water depth (m):	% open w		emergent vegetation:
Description of standi	ng water (permanent pool, e	vidence of annual spring fl	ooding, etc):
Area and soil/substra	te of shoreline habitat:		
Type and abundance	of cover in open water habit		
Type and abundance	of cover in surrounding habi	tat:	
Evidence of disturbar	nce (e.g. cattle grazing):		
	aterfowl, amphibians, turles	(e.g. broken eggs), marsh b	preeding birds:
	Complete Verna	l Pool Habitat Description	Form
Snake Hibernacula			
	tion or rock/debris pile prese	ent:	
	No		raph and complete the following)
JTMs:	M. S.		nd below frost line:
% canopy cover:	% slo		to open canopy (m):
	or stone pile (composition/n		open carropy (m).
Description of surrou	nding habitat (type & abunda	ance of cover, evidence of	disturbance, etc):
Seeps and Springs	(FOC FOLL FOR THE	Clund mum	
vidence of seep or sp	(FOC, FOM, FOD, SWC Dring: X No		raph and complete the following)

Description (indicator species, etc):

UTMs:

NHA Site Investigation - Significant Wildlife Habitat Form

AECOM

Colonial Nesting Bird (CUM1, CUT1, CUS, BLO1, BLS1	Breeding Habitat (Bank and	Cliff Swallows						
	ll, pits, steep slope or rock fa	ace present:						
	No	Yes (if y	es, photograph and complete the following)					
UTMs:		Location	Location (e.g. aggregate pit, bridge):					
Evidence of use by bar	nk or cliff swallows (provide i	number of nests	s):					
Colonial Nesting Grou	nd Breeding Birds, Shorebi	rd Migratory St	opover Areas					
(BBO1, BBO2, BBS1, BBS2, BBT1	, BBT2, SDO1, SDS2, SDT1, MAM1, MA	AM2, MAM3, MAM4,	MAM5)					
Shoreline of lake, large	river or large wetland prese	ent:						
	XNo	Yes (if y	es, photograph and complete the following)					
UTMs:		Rocky is	land or peninsula present:					
Mudflat present:		Evidenc	e of disturbance (e.g. cattle grazing):					
Description of habitat	(size of rocky outcrop/mudf	lat, substrate/so	oil type, type and abundance of cover):					
CUT1, CUS1, >30ha, CUM1 >30	ha, FOC, FOD, FOM with a CUM, CUT, id or generally open habitat	CUS, CUW > 20ha, or (e.g. CUM, CUS, CUT, Yes (if y						
	/ahundance of food plants f		ndance of perches, height of vegetation):					
Description of napital	(abundance of food plants in	or rouerts, abu	idence of percies, neight of vegetations.					
(FOD, FOC, FOM, SWC, SWM, S Mature forest present	e Forests, Interior Forest Brown. WD. Mature forest (>60 years) present No	Yes (if y	res, photograph and complete the following)					
UTMs:		Age of 0	oldest trees:					
	e (e.g. selective cutting): (structural complexity, abu	ndance of snags	and/or downed woody debris, etc):					
Photo #	Location or Subject	Photo #	Location or Subject					
GEDC 0647	garbage pile							
GEDC0648-	tum1							
0649								
GEDC 0651-0152	Cup1-3							
4:								

Species of Conservation Concern Habitat and Incidental Wildlife - Jericho

7		
1	-	
		M
		=00

Study Area: Tericho	Field Staff: Charlotte Mark D'A
Date (yyyy-mm-dd): 1012-05-17 Observed Species List	Feature No.: 17_ JER 3424 3426
Observed Species List	

Time Started: 16:00
Time Finished: 17:15

Species Code	UTM	EV	Notes	Species Code	UTM	EV	Notes
EAKI		OB	eastern Eingbild				Notes
Tuva		OB	turkey unliture				
RBGR		OB	1038 breested 915 box				
NoCA			Morthern Cardinal				
NOFL		VO	gray cathird				
NOFL		OV	northern flick				99
RWOL		VO	sed wing ad block build				
		4					
	*						
Note: Evidence Code		Pied (Po	political Clare Control Clare Control				

Evidence Codes (EV)

Breeding Bird (Possible)

SH=Suitable Habitat, SM=Singing Male;

Breeding Bird (Probable)

T-Territory, D=Display, P=Pair, N=Nest Building, V= Visiting Nest; A=Anxiety Behavior;

DD=Distraction, NU=Used Nest, FY=Fledged Young, NE=Eggs, NY=Young, FS=Foos/Faecal sack, AE=Nest Entry Breeding Bird (Confirmed)

Other Wildlife Evidence:

OB=observed, VO=Vocalization, CA=Carcass. DP=Distincitve Parts. HO=Housa/Den. FY=Eqqs/voung. TK-tracks. FE=Feeding evidence. SC= Scat. S

PLANTS			ng ornatriot, our dual, or-other algits (apatily)
Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Muehienberg's Astomum Moss (Astomum muehienbergianum)- S2	Thin soil over level outcrop ledges and on soil under grasses in open prairie.	ALO, TPO	Y NUTM:
Carey's Sedge (Carex careyana) –S2 <u>Bloom Time</u> – May and June	Occurs in rich deciduous woods, often on floodplains and slopes and mesic to dry-mesic hardwood forests.	FOD6, FOD7, FOD9, SWD	Y (DUTM:
Chinese Hemiock Parsiey (Conioselinum chinense) - S2 <u>Bloom Time</u> -summer to fail	Swampy places with deciduous trees, white cedars, tamarack; springy river banks, creek borders, wet borders of streams & rivers. Also calcareous seepage slopes.	SWC1,SWC3,SWC4,SWM1, SWM2,SWM4,SWM5, SWM6	Y (N) UTM:
Cream Violet (Viola striata) – S3 <u>Bloom Time</u> - March- June).	Inhabits rich floodplain forest and low, wet woods.	FOD6, FOD7, FOD9, SWM, SWD	Y N UTM:
Eastern Green-violet (Hybanthus concolor) - S2 Bioom Time -mid March to August	Occurs in rich, wet-mesic floodplain forests as well as mesic forests over limestone. Includes floodplains and river banks.	ALT1, FOD7	Y 6D UTM:
Gray-headed Prairie Coneflower (Ratibida pinnata)- S3 <u>Bloom Time</u> – early June to end of November	Found in prairies and dry, sandy, open ground.	TPO, EUM1	ON UTM: NO NE OBSELLADO
Green Dragon (Arisaema dracontium) - SC/S3 <u>Bloom</u> <u>Time</u> May and June	Species found in damp deciduous forest and along river streams. Particularly Maple forest and forest dominated by Red Ash and White Elm.	FOD6, FOD7, FOD9	Y NOTM:
Harbinger-of-spring (Erigenia bulbosa) - S3 <u>Bloom</u> <u>Time</u> – early to late April	Occurs in rich, moist deciduous woods, especially on floodplains.	FOD6, FOD7, FOD8, FOD9	Y D UTM:
Smali Skulicap (Scutellaria parvula) –S3 <u>Bloom Time</u> – late Spring to early Summer	Occurs on open, rocky ground and prairies.	ALO, TPO	Y (N)JTM:
Longleaf Dropseed (Sparobolus asper)-S1S2	Dry parries, dry, saidy meadows and shores, roadsides and railway tracks.		ү (Х)лм:
Mead's Sedge (Carex meadil) -S2 <u>Bloom Time</u> -late spring to early summer	Occurs in prairies and moist or dry open areas.	TPO,CUM)	DN UTM: NO

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho



Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present
Ovate Beak Grass –S1 <u>Bloom Time</u> - mld Summer	prefers riparian woodlands; floodplain swamps and river banks.	FOD6, FOD7, FOD9, SWD	Y (C) UTM:
Pawpaw (Asimina triloba) –S3 <u>Bloom Time</u> – March- May	Occurs in moist deciduous woods and stream banks.	FOD6, FOD7, FOD9	Y N UTM:
Riddeli's Goldenrod (Oligoneuron riddeliii)-SC	Occurs in wet, marshy ground and old fields, prairies; favours railway tracks and right-of-ways.	ALO, TPO, EUM1	N UTM: NAO
Schumard's Oak (Quercus schumardii) -SC	Species inhabits mesic and mesic -hydric sites on clay and clay-loam soils with poor drainage.	SWD	Y (N) UTM:
Southern Tickseed (Bidens coronata)-S2	inhabits dry to moist sandy fields and sandy openings in prairies.	TPO, CUMI	ON UTM: NO
Stiff Gentian (Gentianella quinquefolia) - S2 <u>Bloom</u> Time – late summer to mid fall	Found in moist soils of streambanks, edges of woods, wet prairies, marshy meadows, biuffs and wooded hilisides.	BLO1, BLS1, BLT1, TPO2, T TPW2, MAM2, FOD7	
Stiff Goldenrod (Solidago rigida) –S3 <u>Bloom Time</u> - early June to end of November	Occurs on dry open ground, particularly in prairie remnants; along roadsides and railway, and waste places.	TPO1,CUM1)	W N UTM: NO
Tall Tickseed (Coreopsis tripteris)-S2 <u>Bloom Time</u> -late summer to early fall.	Occurs in prairies and open woods, and thickets.	TPO,TPS,TPW,FOD1,FOD2 FOD3, FOD4, FOD5, CUT1	
Tuberous indian Piantain (Arnogiossum piantagineum) - S3 Bioomsmid-March - mid-June	Occurs mainly in flat, sandy areas of the Bruce Peninsula. Fens, wet meadows, and calcareous river flats.	FEO, FES, FET, MAM2, MA	
Winged –Loosestrife (Lythrum alatum)-S3 <u>Bloom</u> <u>Time</u> - mid to late summer	found in prairies, meadows, open woods, thickets and wet disturbed areas.	TPO, CUM1, FOM, FOD, CUT1, MAM2	JMI) WN UTM: N/O
MAMMALS			
Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if presen
Little Brown Bat (Myotis iucifugus)-SC	Roosts in caves, quarries, tunnels, hollow trees or buildings; maternity sites and barns; feeds primarily in wetlands, forest edges.	n attics FOD	Y (N) UTM:
Northern Long-eared Bat (Myotis septentrionalis)-SC	Hibernates in mines or caves; roosts in houses, man-made structures but pro- hollow trees or under loose bark; hunts within forests, below canopy	efers FOD	Y (N)UTM:
Tri-colored Bat (Perimyotis subflavus)-SC	Open woods near water; roots in trees, cliff crevices, buildings or caves; hibs damp, draft-free, warm caves, mines or rock crevices.	rnates in FOD	Y TUTM:
Woodland Vole (Microtus pinetorum)-SC	Mature deciduous forest in the Carolinian forest zone, with loose sandy soil a humus; grasslands, meadows and orchards with groundcover of duff or grass	•	Y 🕦 UTM:
REPTILES			
Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if presen
Eastern Ribbonsnake (Thamnophis sauritus) - SC A	ssessed as SWH. Record species if found.	MAM, MAS	not required.
	Assessed as SWH. Record species if found.	CUM, CUT	not required.
	Large water bodies with soft bottoms & aquatic veg; basks on logs, rocks, beact nest at some distance from water; aquatic corridors (e.g. stream) required for m		Y (N) UTM:
INSECTS			
Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if presen
Dusky Dancer (Argia translate) –S3	inhabits small to medium, slow flowing sandy or rocky streams or large riv quite open areas or with wooded banks.	ers in OAO, SA	Y W UTM:
BIRDS			
Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if presen
Baid Eagle (Haliaeetus leucocephalus)-SC	Assessed as SWH. Record species if found.		not required.
Louisiana Waterthrush (Seiurus motacilla) -SC	Mature forests along steeply sloped ravines adjacent to running water. True bushes, exposed roots, cliffs, banks and mossy logs are favoured nesting		Y (N) UTM:



FLC	Map#: 118 JER	1658/1699 Polyg	on: 🏂	102	2
Community	Surveyor(s):	Date:	Time	start: finish:	11:15
Description and Classification	UTMZ:	UTMZ: 42 44 76	U	TMN: 4	1771182

Polygon Description

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

Stand Description

Complex:

Layer	нт	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	TRA ASTERY > POPTROM = CAROJAT
2	3	3	FRAPENN) CAROVAT > FRANIGE: ONTY RE-
3	4	3	FRAPENN) FRANICE > OFFIRE > CAROLAT
4	6	4	IMPCAPE SMAINTEL > CORMACIONOSENI

HT Codes: 7 < 0.2m 6 > 0.2-0.5m 5 > 0.5-1m 4 > 1-2m 3 > 2-8m 2 > 8-25m 1 > 25m CVR Codes: 0 = none 10% - 10% 210 - 25% 325 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10 [A	10-24	R	25-50	N	>50
	Standing Snags:	0	<10 [0	10-24	12	25-50		>50
BA:	Deadfail / Logs:	A	<10 [Ž.	10-24	12	25-50	N	>50

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

Com. Age:	PioneerYoungMid-Age	Mature	Oid Growth
Ecosite:	[Ad] m: 1 a :1		C 00
Vegetation	Green Ash Mineral Delli Sweens	Code:	5002
Туре:	met all ments	Gode.	SW0 2-2
inclusion:		Code:	

Code:

Community Profile Diagram/Comments

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1	
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r	
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•	

Pic 067 Vernel pool @ 4244 65, 4391219

Tree Tally by Species

Prism Factor 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
POPTREM					4	
VER APPLA	*				2	
CAROLAT FROPERIN	;				2	
FAR PENNS	* 9				2	
Total			Harmon H			100
Basal Area (BA)						
Dead	0					

	F	Pit/Auger#		1				Sum	máry
		Zone							
œ.	5	Easting	4241	20					
Site Metrics	, ,	Northing	4771						sture jime
ž		Position	da bis	1 4				INOS	inne
SE	ø	Aspect	1	3					
	Slope	Percent	₹.	0					
	0,	Slope Length	hi	ine				Drainage	
	Mott		1.	يعجم مع					
9	Gley		127	- 100				Ess.	Alexan
ŧ		er Table 4	01	PA				Effe	
Depth to		onates	1					Texture (indicate below)	
	Bedi		13				500		
	1	Depth from zero	0	% CF		% CF	% CF		% CF
		Texture	Sic L						
	2	Depth from zero	15cm	% CF		% CF	% CF		% CF
non		Texture	Sic						
escri	3	Depth from zero		% CF	-	% CF	% CF		% CF
		Texture						3	
Soil Horizon Description	4	Depth from zero		% CF		% CF	% CF		% CF
So		Texture							-
-		% Surface Stone/Rock							
	Mois	ture Regime	(,	,					
1	Drainage		(4						

424448, pic# 068

ELC	Map# 18 JE	2 653/1693	Polygon:	05-2						
	Surveyor(s):	Date:		art: //;/s*						
Community Description and	Sem sps	31-05-	2012 fini	sh: 1:45						
Classification	UTMZ: '	UTMZ: 424	385 UTMA	1:4771063						
Polygon Description										
System	Substrate	Topographic Feature	Plant Form	Community						
Terrestrial	Organic	Lacustrine	Plankton	Lake						
□Wetland	Mineral Soil	Riverine	Submerged	Pond						
□Aquatic	Parent Min.	Bottomland	☐Floating-LVD.	River						
Site	Acidic Bedrk	UTerrace	☐Graminoid	Stream						
Open Water	Basic Bedrk	Valley Slope	Forb	☐ Marsh						
Shallow Water	☐Carb. Bedrk	Tabieland Roll. Upland	□Lichen	☐Swamp ☐Fen						
Surficial Dep.			Bryophyte Deciduous	Bog						
		☐Talus	Coniferous	□Barren						
History Winatural		□ Crevice/Cave	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Meadow						
Cultural		□Crevice/Cave □Alvar	Livitxeu	Prairie						
Cover		Rockland		Thicket						
Open		Beach / Bar		Savannah						
Shrub	>	Sand Dune		□Woodland						
Treed		Bluff		Forest						
- Tiloca				Plantation						
Layer HT CVR Species in Order of Decreasing Dominance (up to 4 sp)										
Com. Age: Pioneer Young Mld-Age Mature Old Growth										
Ecosite: 0/	n-Fred C	m 1 #	Lec. Sc. Code:	GOF						
Vegetation Type:		- maple - Berel								
	ك مناكن الأنا	08 A 1h - 1	al ibb Code	cup3-9						
Gomplex: Carla Brick t / Cod/and Code: Cups-9										
Community	Profile Dia	gram/Comm	ents							
tarce	rick pile	~ D p L	2. Y I M	<i>.</i>						
		8,5-10	Jin beich	4						
	Usm = 4	24416,47	71562 B	72 106						
Notes:				570						

Tree Tally by S	Pris	sm Factor	2			
Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
ACEIASA	8:				4	
FAGORAN	**				3	
Total		H				100
Basal Area (BA)						
Dead	•					

	Pit/Auger#		1						Sum	mary
		Zone						7		
91	Σ E E	Easting	4241	185					Mois	sture
Site Metrics	٦	Northing	4771			meril.				ime
2		Position	del	· le len						
흥	ø	Aspect	N							
	Slope	Percent		>						
		Slope Length	^	~			1		Drai	nage
	Mottles			¥						
9	Gley			8					Effe	ctive
Depth to		er Table	7	4				1 - 1		ture
90	Carbonates			N/D						icate
	Bedrock		4	B					bel	ow)
Soil Horizon Description 3	1	Depth from zero	0	% CF		% CF		% CF		% CF
		Texture	SCL			.001				
	2	Depth from zero	10c ~	% CF		% CF		% CF		% CF
		Texture	SC							
	3	Depth from zero		% CF		% CF		% CF		% CF
on D		Texture								
Horiz	4	Depth from zero		% CF		% CF		% CF		% CF
Sol	16321	Texture								
		% Surface Stone/Rock	1>	<5-2				71		
	Mols	ture Regime		3						
	Drainage		5	5						

Trees & Shrubs	1	2 3	4	5	Tree & Shrubs	1	2	3	4	5	Graminoids	1	2	3	4	5
Conifers Balsam Fir (Ables balsamea)	+	+	+	Н	Deciduous White Oak (Quercus alba)	┿	₽	\vdash			Grasses Glant Redtop (Agrostis gigantea)	╀	┞	H	Н	_
Common Juniper (Juniperus communis)	П	1			Bur Oak (Quercus macrocarpa)	K		Н			Redtop (Agrostis stolonifere)	t	H		Н	۲
Eastern Red Cedar (Juniperus virginiana)	П				Red Oak (Quercus rubra)	V	Г				Awnless Brome (Bromus inermis)	上	P			
Tamarack (Lerix laricina) Norway Spruce (Picea ables)	Н	74	+	Н	Alder Buckthom (Rhamnus alnifolia) Common Buckthom (Rhamnus cathartica)	u	-	Н	Н	\dashv	Bromus Blue-joint Grass (Calamagrostis canadensis)	L	-	L	Н	4
White Spruce (Picea glauce)	\Box	4		Н	Smooth Sumac (Rhus glabra)	-	۲	Н	Н	٦	Orchard Grass (Dactylis glomerata)	Т	H	\vdash	Н	Н
Black Spruce (Picea mariana)	П				Staghorn Sumac (Rhus hirta)						Poverty Oat Grass (Danthonia spicata)					
Jack Pine (Pinus banksiana)	+	-	\vdash	Н	Wild Black Current (Ribes emericanum)	100	1				Quack Grass (Elymus repens)		Г		П	
Red Pine (Pinus resinosa) Eastern White Pine (Pinus strobus)	H	+	Н	Н	Prickly Gooseberry (Ribes cynosbati) Swamp Black Currant (Ribes lacustre)	╀	-	Н	\dashv	-	Virginia Wild Rye (Elymus virginicus) Elymus	╀	H	Н	Н	4
Scotch Pine (Pinus sylvestris)					Red Current (Ribes rubrum)	1A	H	Н			Lijnus		-	Н	H	٦
Canada Yaw (Taxus canadensis)	П	\perp			Ribes						Fowl Manna Grass (Glyceria striata)	E				
Eastern White Cedar (Thuje occidentalis) Eastern Hemiock (Tsuga canadensis)	╂╌╂	4	Н	=	Black Locust (Robinia pseudo-acacia)	╀	┞	Н	-	4	Glyceria	Ľ		Ш		4
Casiani Hamiotik (Tsuga Canadensis)	H	+	Н	-	Prickly Rose (Rose acicularis) Smooth Rose (Rose blande)	\vdash	Н	Н	-	-	Rice Cut Grass (Leersia oryzoides) Tall Fescue (Lolium arundinacaum)	╀	H	Н		Н
		土			Multiflora Rose (Rose multiflore)	T	H		7	7	Muhlenbergia	┢	H	Н	Н	Н
Deciduous	Н				Rosa	L					Witch-grass (Panicum capillare)					
Manitoba Maple (Acer negundo) Black Maple (Acer nigrum)	Н	+	Н	Н	Com. Blackberry (Rubus allegheniensis) Wild Red Raspberry (Rubus idaeus)		L.	Н		-	Panicum Reed Canary Grass (Phalaris arundinacea)	١.,	 -	Ш		4
Norway Maple (Acer platanoides)	\vdash	+	Н		Black Raspberry (Rubus occidentalis)		۳	Н	-	-	Timothy (Phieum pretense)	V	H		\dashv	Н
Red Maple (Acer rubrum)					Purple-fl. Raspberry (Rubus odoratus)				コ		Common Read (Phragmites australis)	+	Н		\dashv	Н
Silver Maple (Acer seccherinum)	П	-	Н		Dwarf Respherry (Rubus pubescens)		L	П	\Box		Canada Blue Grass (Poa compresse)					_
Freeman's Maple (Acer X freemanii) Sugar Maple (Acer saccharum)	17	9	Н		Rubus Peach-leaved Willow (Salix amygdaloldes)	Н	-	Н	\dashv	-	Fowl Meadow Grass (Poe palustris) Kentucky Bluegrass (Poe pratensis)	-	R	Н	-	4
Mountain Maple (Acer spicatum)	14	4	Н	H	Bebb's Willow (Salix bebbiana)		-	Н	-	-	Yellow Foxtail (Setaria pumila)		4	Н	\dashv	Н
Speakled Alder (Alnus incans)	П				Pussy Willow (Salix discolor)			口			Green Foxtail (Setaria viridia)					
Downy Serviceberry (Amelanchier arborea)	$\vdash \vdash$	-	\sqcup		Missouri Willow (Salix eriocephale)			П	1	4					I	\Box
Serviceberry (Amelanchier sanguinea) Yellow Birch (Betula alleghaniensis)	1	+	H		Sandbar Willow (Salix exigua) Shining Willow (Salix lucida)	H	-	H	+	-		H		H	-	4
White Birch (Betula papyrifera)		士			Black Willow (Salix rigra)	Н		Н	+	1		1	Н	Н	+	4
European Birch (Betula pendula)		4	口		Stender Willow (Salbr peticlaris)			口							1	J
Blue Beech (Carpinus caroliniana) Bitternut hickory (Carya cordiformis	回	7	H		Salix		R	П	4	4		П		П	1	1
Shagbark Hickory (Carya cordiformis		u	H	-	Hybrid Crack Willow (Salix X rubens) Black-berried Elder (Sembucus nigra)	Н	r	H	+	-		Н	\vdash	-	+	4
Climbing Bittersweet (Celastrus scandens)			П		Red-berried Elder (Sambucus racemosa)		П	Н	+	1		Н	Н	\dashv	+	1
Common Hackberry (Celtis occidentalis)					Buffaloberry (Shepherdia canadensis)				コ		Sedges			\exists	1	1
Buttonbush (Cephalanthus oocidentalis) Altleaved Dogwood (Cornus alternifolia)	Н	+	Н		Eur. Mountain Ash (Sorbus aucuparia)			П	4		Drooping Wood Sedge (Carex arctets)			\Box		
Silky Dogwood (Cornus amomum)	Н	+	Н		Narrow Meadow-sweet (Spiraea alba) Common Lilac (Syringa vulgaris)	Н	Н	Н	+		Golden-fruited Sedge (Carex aurea) Graceful Sedge (Carex gracilima)		_	\dashv	+	4
Bunchberry (Cornus canadensis)	\Box	\top	\Box		Poison-ivy (Toxicodendron rydbergii)	Ø	P	H	+	1	Inland Sedge (Carex Interior)	u	Н	\dashv	+	1
Gray dogwood (Comus racemosa)		AL.	П			4			コ		Bladder Sedge (Carex Intumescens)			\exists		1
Round-leaved Dogwood (Cornus rugosa) Red-osier Dogwood (Cornus sericea)	Н		\vdash		White Elm (Ulmus americana)	囯		Н	4		Lake-bank Sedge (Carex lacustris)			\neg	\neg	7
American Hazel (Corylus americana)	\vdash	+	Н	-	Siberian Elm (Ulmus pumile) Silppery Elm (Ulmus rubra)	Н	R.	Н	+		Hop Sedge (Carex lupulina) Pennsylvania Sedge (Carex pensylvanica)	K	4	-	+	4
Beaked Hazel (Corylus cornuta)			П		Low Bluebarry (Vaccinium angustifolium)	Н	-	H	+		Awl-fruited Sedge (Carex stipate)	Н	٦	┪	+	1
Cockspur Thorn (Crataegus crus-galli)	П	T	П		Maple-leaf Viburnum (Viburnum acerifolium)				1		Fox Sedge (Carex vulpinoidea)				士	1
English Hawthom (Crataegus monogyna) Large-fruited Thom (Crataegus punctata)	Н	+	Н		Hobblebush (Viburnum jantanoides) Nannyberry (Viburnum jentago)	Н		Н	4		Carex OYO'CC-C	Ш	\exists	\Box	1	7
Cretaegus	Н	+	H		Suelder-Rose (Viburnum jentago)	Н	Н	Н	╅		Carex CA. Halla	씱	-	+	+	-1
Crataegus					Downy Arrow-wood (Vib. rafinesquianum)	Н		\vdash	+	_	Carex nodunculate	RV	-	+	+	Н
Bush Honeysuckle (Dierville lonicera)	П	T	П		Riverbank Grape (Vitis riparia)				7		Carex					1
Russian Olive (Eleeegnus angustifolia) Autumn Olive (Eleeegnus umbellata)	\vdash	╫	H	-/	Am. Prickly-ash (Zanthoxylum americanum)		n	\Box	+		Carex	\dashv	4	+	-	4
Run. Strawberry-bush (Euonymus oboveta)	Н	4	H	+	BUEBICO		4	\dashv	+		Carex	Н	┨	+	+	4
American Beach (Fagus grandifolia)		2	П						1		Carex		7	+	+	1
Glossy Buckthorn (Frangula alnus) White Ash (Fraxinus americana)	Ц.	-	Н	4		Ш		Ц	\perp		Cerex		\Box	\Box	I	1
	4	+-	┝╌┼	╌┟	Ady Fern (Athyrium filix-femina)	Н	\dashv	-	+		Carex Carex		-	+	+	4
Green Ash (Fraxinus pennsylvanica)	1115	+	H		Rattlesnake Fern (Botrychium virginianum)	Н	┪	-	+		Cyperus	\dashv	┪	+	+	4
	VI.	T	П		Bulbet Bladder Fern (Cystopteris bulbifera)	П			1		Redroot Spike-rush (Eleocharis arythropoda)			1	#	1
Winterberry (llex verticilate) Butternut (Jugians cinerea)	-	+	-		Spin. Wood Fem (Dryopteris carthusians)	Ц	_	\perp	1		Eleocharis	J	1	T	T	1
Black Walnut (Juglans nigra)	+	+	\vdash		Prested Wood Fem (Dryopteris cristata) Marginal Wood Fem (Dryopteris marginalis)	H	-	+	+	- -	Hard-stem Bulrush (Schoenoplectus acutus) Three-square Bulrush (Sch. pungens)	+	+	+	+	4
Common Privet (Ligustrum vulgare)					Dryopteris	H			+		Soft-stern Bulrush (Sch. tabernaemontani)	\dashv	1	+	+	1
Spicebush (Lindera benzoin)	8		П		Ostrich Fern (Matteuccie struthiopteris)	4	二	I	T	[Dark-green Buirush (Scirpus atrovirens)			I		1
Fly Honeysuckle (Lonicere canadensis) Glaucous Honeysuckle (Lonicere dioice)	+	+	+		Sensitive Fem (Onoclea sensibilis) Zinnamon Fem (Osmunda cinnamomea)		-	+	+	1	Nool-grass (Scirpus cyperinus)	4	4	4	1	4
Morrow's Honeysuckle (Lonicera morrowii)	+				nterrupted Fern (Osmunda cinnamomea)	H	+	+	+	+		+	+	+	+	1
Tartarian Honeysuckle (Lonicera tatarica)		I		F	Royai Fern (Osmunda regalis)			1	+	t		+	+	+	+	1
Common Appie (Malus pumile)	1	47			hristmas Fern (Polystichum acrostichoides)		U	1	I	Ţ				1	T	1
White Mulberry (Morus alba) Sweet Gale (Myrica gale)	1	+	-		astern Bracken-fern (Pteridium aquilinum) Aarsh Fern (Thelypteris palustris)	-	+	+	+	+	Other Committee	1	-	1	1	-
Ironwood (Ostrya virginiana)	GIT)	+	1	наган тант (ттвтурчата рашата)	+	+	+	+	-	Other Graminoids Broad Bur-reed (Sparganium eurycarpum)	+	+	+	+	-
Thicket-creeper (Parthenocissus Inserte)							_		1	I	larrow-leaved Cattail (Typha angustifolia)	1	+	1	+	1
Ninebark (Physocarpus opulifolius)	-	П			leld Horsetali (Equisetum arvense)	\Box	Ţ	T	T		Broad-leaved Cattall (Typha latifolia)			I	I	1
Balsam Poplar (Populus balsamifera) Eastern Cottonwood (Populus deltoides)	-	Н	+		couring-rush (Equisetum hyemale) ariegated Horsetali (Equisetum veriegatum)	-	-	+	+		Broad-leaved Cattali (Typha X glauca)	4	-	1	+	1
Large-tooth Aspen (Populus grandidentata)	+	H	+		quisetum	+	+	+	+		Articulated Rush (Juncus articulatus) Soft Rush (Juncus effusus)	+	+	+	+	1
Trembling Aspen (Populus tremuloides)	WI			- (Fround-cedar(Lycopodium digitatum)				1		Path Rush (Juncus tenuis)	1	+	1	+	1
Sweet Cherry (Prunus avium)	-	*	1		hining Clubmoss (Lycopodium lucidulum)	J	1	T	T	J	uncus	1		T	I	1
Pin Cherry (Prunus pensylvanica) Black Cherry (Prunus serotina)			-		iround-pine (Lycopodium obscurum)	R	+	+	+	J	uncus	1	+	1	1	1
Choke Cherry (Prunus virginiana)		7	+	1	e au prat	4	+	+	+	+		+	+	+	+	1
Prunus	"		土	1		#	1	1	1	1		1	1	+	+	1
D - Dominant: represented by large numbers; generally	formin	g >10	% gro	und	cover or >25% vegetation cover in any one stratum	400	_									1
U - Uncommon (=Opensional in ELO): generally wide	pread	repre scatte	red in	u by divin	fairly large numbers of individual clumps; usually forming > tuals or represented by one or more clumps ofmeny individ	10% luele	grou Ime	and or	over over	Tank!	fall into this gateropry					1
R - Rare : represented in the polygon by less than about it	ive Ind	ividua	s or s	mali	clumps		,,					_	_			f
Map Humber: 118 - JER 1658 11693	1	П	$oldsymbol{\mathbb{I}}$	I	SWD 2-2	4	J	J	Γ	Γ		T	T		T	
Date: 31 may 12	}	П	\perp		FOD 5-2	5	J	I	Ι	Ι		T	T	Τ	T	
Burveyora: SICM & SPS				1					I			I	T	T	T	1