

B4. Site Investigation Addendum



AECOM
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519.650.5313 tel 519.650.3424 fax

Communication Record

Date	January 23 rd , 2012	_	Time	2pm
Between	Ron Drabick, MNR	and	Jillian de	eMan, AECOM
		_'		
Telephone #	519-773-4728	_	Project #	60155032
Project Name	Nextera Wind Energy			
Subject	Bluewater NHA Response to MNR Co	omm	nents	
PLEASE NOTE:	If this communication record does not agree with your re please advise. Otherwise it will be assumed that the con			

Comments

The following is a summary of the discussion held January 23rd, 2012 between Ron Drabick (MNR) and Jillian deMan (AECOM):

- 1) Feature 442: Looking at the plant species associations of red cedar, sugar maple, white cedar, lilac, green ash, willow, English hawthorn, trembling aspen, apple, white elm, yellow birch and pear. This community does not exhibit wetland species associations and is likely a result of regrowth from historical clearing due to farming practices. Considering the human interference and the tree cover of over 60%, this community will be re-classified as a CUW1 instead of FOD 7-3. The ELC card will reflect this change as well an explanation provided within the text. It was agreed that further soils information was not required for this designation, nor is this community considered wetland.
- 2) Feature 541: The FOD 7-1 community is to be carried forward as a wetland community considering the condition of the soils, tree and herb species associations. In particular, this community is wetland due to the following:
 - a. Mottles start at 2 cm from the surface
 - b. Presence of both white elm and green ash within the canopy
 - c. Presence of wetland species such as joe pyeweed, boneset, northern willow herb, cattails and blue vervain within the groundcover.



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Communication Record

Date	January 31 st , 2012		Time	2:00pm
	Dec Declini MND		PIP I	M. AFOOM
Between	Ron Drabick, MNR	and	Jillian de	eMan, AECOM
Telephone #	519-773-4728		Project #	60155032
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Comments

The following is a summary of the discussion held January 31st, 2012 between Ron Drabick (MNR) and Jillian deMan (AECOM):

Overall:

- 1) The FOD 7-2 communities which are now being treated as wetland do not need to be redefined into different ELC communities. We are just treating them as wetlands for Appendix C.
- 2) The wetland communities are much easier to see in the 2010 orthos because they were taken in leaf-off conditions.
- 3) Discussions per feature 537 have resulted in the need to perform additional fieldwork to provide more detail of vernal pond/wetland inclusion areas. *Additional fieldwork was undertaken on February 1, 2012. Details of fieldwork are provided in the attached of this memo.*
- 4) Discussions per features 552, 555, 556, 561 and 562 resulted in additional information. *Additional information is provided in the attached of this memo.*

Comments per Feature (everything has also been marked on a map):

Feature 480

Mapping edits: i) refine the wetland boundary between the meadow marsh and the cultural woodland/plantation, ii) refine the boundaries where the crossing is by using the "in-stream" mode in GIS to make the boundaries less blocky, iii) the wetland at the bottom of the feature (north of Staffa Road) should end at the limits of the patch, not extend out into the field, iv) part of the SWD just south of Centennial Road is now field (check 2010 orthos).



Feature 483

Mapping edits: i) Extend the SWD boundary northward as per mark-ups.

Feature 493 and 496

Mapping edits: i) refine the MAM boundaries around the house, ii) CUM community is crossing over the drainage. Move CUM out of the area.

Feature 501

Mapping edits and clarification: i) Redesignate ELC community as CUP1-3/MAM 2-10 and treat as wetland. Community does exhibit wetland indicating species and hydric soils.

Feature 504

Mapping edits: i) reduce SWT community along drainage, ii) extend FOD community to the south.

Feature 510

Mapping edits: i) the extent of wetland vs. upland is apparent within the 2010 orthos. Refine boundaries using the most up-to-date aerial photography

Feature 514

Mapping edits: i) wetland does not extend over entire patch, reduce boundaries especially along the easterly limits north of Centennial Road.

Feature 518

Mapping edits: i) wetland is apparent beyond the 120 m setback. Refer to the 2010 orthos and refine boundaries.

Feature 520

Mapping edits i) the area just south of the pond is wetland. Refer to the 2010 orthos and refine boundaries.

Feature 534

Mapping edits: i) wetland boundaries near the turbine need to be increased. Ponding areas are also apparent within the FOD 5-1 community. This is easy to view at 1:2500 scale on the 2010 orthos.

Feature 537

Mapping edits/clarification i) what is the crossing method? ii) has this area been identified as amphibian habitat? iii) what are the canopy trees around the vernal pools? This requires clarification.

Feature 542

Mapping edits/clarification i) what is the species composition of the FOD 5-1 community?

Feature 551

No clarification/mapping edits required. Agreement on original designation.

Feature 552, 555, 556, 561 and 562

Additional information in terms of the trees is required to determine wetland vs. upland. AECOM to provide clarification in report.



ATTACHMENT A: Results of Fieldwork Performed on February 1, 2012 for Feature 537



ATTACHMENT B: Revision of Field Data Sheets for Features 552, 555, 556, 561 and 562



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Communication Record

Date	February 2 nd , 2012		Time	2:20pm
Between	Ron Drabick, MNR	and	Jillian de	Man, AECOM
Telephone #	519-773-4728		Project #	60155032
Project Name	Nextera Wind Energy			
Subject	Bluewater NHA Response to MN	R Comr	nents	
PLEASE NOTE:	If this communication record does not agree with yo please advise. Otherwise it will be assumed that the			

Comments

The following is a summary of the discussion held February 2^{nd} , 2012 between Ron Drabick (MNR) and Jillian deMan (AECOM):

- 1) Provided details of fieldwork conducted on February 1st, 2012. Indicated that wetland inclusion within feature 537 consisted of predominantly swamp maple (*Acer freeman*i) with some willow and white elm. This inclusion has been designated as SWD 3-3. Through direction with MNR, even though this inclusion is less than 0.5ha in size, it is to be evaluated as part of Appendix C.
- 2) Provided additional details in terms of features 552, 555, 556, 561 and 562.

Polygon Description

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Plant Form	Plankton	Graminoid Graminoid	D Lichen	Bryophyte	Conference	DMixed		
Community	Dend	Stream	O Swamp	DD-Fe	Barren	Meadow	Thicket	Woodland

Stand Description

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VASCULAR PLANT CHECKSHEET

Feb1,2012

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Polygon	Date: Tels 1, 2017	MZ:
Site the world.	Surveyor(s):	UTMZ: UT

Cidebullications	-	0.1		
Polygon Description	scription			
System	Substrate	Topographic	Plant Form	Community
Terrestrial	Organic Mineral Soil	Lacustrine	Plankton	Pond
DAguatic	Design Min.	DTerrace	OFloating-LVD.	Stream
Open Water	Desic Bedrik	UValley Slope	D Lese	OSwamp
Surficial Dep.		Doilf Upland	Bryophyte	200 200 200 200 200 200 200 200 200 200
History		Talus	Conferens	Barren
Ocultural		Crevice/Cave	Mixed	Prairie
Cover		Rockland		Thicket
Open Shrub Treed		DSand Dune		Woodland Deforest

Stand Description

Layer	Ħ	yer HT CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
-	-	h	PINSKY - FRAAMER - PINSKO - JUENIER
N			
67			
ų			

2.10 - 25% 3.25 - 60% 4 > 60% HTCodes: 7<0.2m 6>0.2-0.5m CVR Codes: 0 = none 10% - 10% 3

Stand Composition:	Size Class Analysis:	k10	10-24	25-50	>50
	Standing Shags:	ş	10-24	25-50	>50
RA:	Deadfall / Logs:	ş	10-24	25-50	28
Abundance Codes:	W=None R=Rare O=0	Docesional	A = Abundant		

Com. Age:	Pioneer	Young	X Mid-Age	e X Mature	Old Growth
Ecosite:	Mineral	CLUTTAIR!	Wandland G	CCOSITE Code:	CuMI
Vegetation			TOTAL CARACHANIA	Code:	CWU
Inclusion:				Code:	
Complex				Code:	

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Tree Tally by Species	pecies			Pris	Prism Factor	2
Species	Tally 1	Tally 2 Tally 3 Tally 4 Total Rel. Avg	Tally 3	Tally 4	Total	Rel. Avg.
						100
Total						100
Basal Area (BA)						
Dead						

Pit/Auger # Zone Zone Size Northing Northing Mottles Carbonates Depth from Sope Length Aspect Carbonates Length Aspect Six	Pit/Auger # Zone Zone Resting Northing Percent Slope Length Mottles Glay Water Table Carbonates Bedrock 1 Depth from % CF 2 Zero Texture 3 Zero Texture 4 Zero Texture 4 Zero Texture 4 Zero Texture 5 Zero Texture 6 Zero Texture 7 % CF 6 % CF 7 % C	Soils	Soils	Ontario and	ELC	Soils Description		
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Mottles Glay Water Table Carbonates Bedrock 1 Depth from % CF % CF	Mottles		S	Slope				
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3 Depth from % CF % CF Texture 4 Depth from % CF % CF 2ero Texture 5 Sunface Stone-Rock	Moisture Regime		S.C	Drainage				

Polygon Description HT Codes: 7 = 0.2m 6 = 0.2-0.5m CVR Codes: 0 = none 10% - 10% Stand Description Open Water
Shallow Water
Surficial Dep.
Bedrock Description and Classification Community Profile Layer Mistory
Mistural
Cuttural
Cover Terrestrial

Wetland

Aquatic

Site Abundance Codes: Shrub Treed Com. Age: Stand Composition: Vegetation Complex: Inclusion: Community Ecosite: -Type: System 퐄 Dry-Frost WHITE PINE-Mapk- One Mixed CVR r DTMZ: Sites | Wash Dorganic
OMineral Soil
OParent Min.
OAcidic Bedrk
OBasic Bedrk
Carb. Bedrk Surveyor(s): Ploneer N = None Species in Order of Decreasing Dominance (up to 4 sp)

(>> Much Greater Than; > Greater Than; = About Equal To)

(\(\frac{1}{2} \) \(\fr Substrate Size Class Analysis: Standing Snags: Deadfall / Logs: 210-25% Diagram/Comments R = Rare O = Occasional Young Ovalley Slope
Tableland
Roll. Upland
Ocief
Otalus
Octowice/Cave ULacustrine
URiverine
UBottomland
UTerrace □Rockland
□Beach / Bar
□Sand Dune
□Bluff DAWar Feature 3 25 - 60% UTMZ: Date: 4×1-2m X Mid-Age Front Econite 333 4×60% 2012 3×2-0m OForb
OLichen
OBryophyte Submerged

Floating-LVD Coniferous

Moded A = Abundant Polygon: 574- St Plant Form 10-24 10-24 Mature Time 2 × 0-25m Code: Code: Code: UTMN finish: start: No. DLake
DPond
DPond
DStream
Stream
DMarsh
DSwamp
Fen
DBog
DBarren
DBarren
DPrairie
DThicket
DSavannah
DWoodland
BForest
DPigntation DW2 1 ×25m 25-50 25-50 Community 11.35am 11:0000 Old Growth

Notes

Iree latty by openies	Species					Total .	insor
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Section 1	Tally 2						
	Tally 3						
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	Rel. Avg				100		

Soils Ontario

and

ELC

Soils Description

			So	I Horiz	on D	escrip	tion				1	Dep	th t	0				Sit	e M	etri	cs		
Dra	Mok			4		ω		N		*	Bedrock	Cart	Wat	Gley	Mottles		Slop	e		t	лм		70
Drainage	Moisture Regime	% Surface Stone/Rock	Texture	Depth from zero	Texture	Depth from zero	Texture	Depth from zero	auritice	Depth from zero	rock	Carbonates	Water Table		les	Slope	Percent	Aspect	Position -	Northing	Easting	Zone	Pit/Auger#
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2 6 6

VASCULAR PLANT CHECKSHEET

Page (Aluguster - MY - 552 Kg)

Date: February 1, 20 2

Annual Science Committee	11 2	17		1	al.			2	31	el s	el.		THE SALE LAW STATE	11	2 3	4	5	5 4	MONOCOT HERBS	11	21:	3 4	5	11
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H	arpinus caronniana arya cordiformia	+	+	+	+	+	+		Viburoum lentago	+	+	Н		+	Carex	1	+	+		+	Ť
		+	+	+	+	+	+		Viburnum opulus	+	+	Н	-	+	Cyperus	+	+	+	+	+	+
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	orma alternifolia	4	4	+	+	+	-	-	Viburnum	+	+		-	+	Cyperus	\rightarrow	+	+	+	+	+
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	raxinus nigra						_	1	FERNS	_	-	_	1		Junçus effusos			4	-	-	-
1	Fraxinus pennsylvanica		×	\times	-4			1	Adiantum pedatum		_	_	┖		Juneus tenuis		-	-	-	4	_
	llex verticillata		+ 1					Т	Athyrium filix-femina						Juecus				_	1	-
ti	Juglans cineres				7	\neg		Т	Botrychium multifidum				Т		Juneus					1	
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	Lonicera morrowi		-		-	7	\neg	7	Cystopteris bulbifera		\neg		T		Muhleabergia				П		-
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μ	Malus pumila	_	-	11	-	-	-	+		-	-	+	+	+	Phalaris arundinacea	-	+	\vdash		+	
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	Parthenocissus inserta		-	-			1	4	Equisetum arvense	-	\vdash	1	+	+		-	1	-	\vdash	-	-
Ц	Populus balsamifera	_	1	1				_	Equisetum hyennale	-		+	+	+	Phragmites australia	_	+	-	\vdash	-	-
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П	Prunus pensylvanica		T						Lycopodium digitatum				1	1	Scirpus atrovirens	**	1				
M	Prunus serotina		15	4					Lycopodium obscurum				4	1	Scirpus cyperinus		1	L	1		
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1	Rhus radicens		+	+	+	+	+	-		+	+	Н	+	+			+	+	+	1	۰
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I	Ribes americana	4 -4	1		1	1	1	1	Thelypteris palustris	1	1			_		-	4	1	1	+	1
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+	Ribes x rubrum			-	1	-	-	F		-1	1				The state of the s	_	_	1	1	1	1
t	Robinia pseudo-acaci	a .	7	+	1	1	T	T		T	1							1	1		1
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56 Tree	start Greens			Community		Stream	Swamp		Barren	_	ol 134	Savannan
Polygon: 875\$ 556	Time	UTMN:		Plant Form	26	pioui	,,,,,		snou	Deminos	Ji	J
	Date: 7061.7012	UTMZ:		Topographic	Lacustrine Riverine Bottomland	Terrace	Tableland	DRoll, Upland	OTalus	CrevicerCave	Rockland	Beach/Bar
Sito: (Transkie	Surveyor(s):	UTMZ:	scription	Substrate	Onganic OMineral Soil Dearent Min.	Acidic Bedrik	Carb Bedrk				0.4.0	
ī	Community L	Classification	olygon Description	System	Terrestrial Wetland Aquatic	Site	Dopen Water	Surficial Dep.	History	Contural	Cover	Dopen

Rel. Avg. N

Tally 4

Tally 1 Tally 2 Tally 3

Tally by Species

Prism Factor Total

Stand Description

202	yer -	Layer HT CVR	2	Species in Order of Degreesing Dominance (up to 4 sp) (24 RCoED 3) FRAVENIN
	20			

25-50 25-50 25-50 10-24 10-24 10-24 4 > 80% 999 VR Codes: 0 = none 10% - 10% 210 - 25% 3 25 - 60% Standing Shaps: Stand Composition: BA: bundance Codes:

N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	Young X Mid-Age X Mature	N N	ture	Old Growth
Ecosite:	Rout- Med Ode Note- F	tole-thillow	Prillian Dritter Such Built Code: 1509	S	:ep	509
Vegetation	Fresh-Marst B	Bithront Hickey	Hickery Dicelon	Lines Co	e P	No9-5
Inclusion:					Code:	
Complex				S	:ep	

Community Profile Diagram/Comments

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	1/Ar	Ares (BA)				
So	Soils	Ontario and	d ELC Soils	Description	c	
		Pit/Auger #				Summary
		Zone				
83	MT	Easting				Moisture
otric	n	Northing				Regime
W e		Position				
us	9	Aspect				
	dog	Percent				
	3	Slope				Drainage
		Length				
3	Mottles	Ses				
c	Gley					Effortion
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de	Cart	Carbonates				(indicate
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	٠	Depth from zero	% CF	% CF	% CF	
		Texture				
	N	Depth from zero	% CF	% CF	% CF	
uog		Texture				
duosa	n	Depth from zero	% CF	% CF	≱ CF	
Q uo		Texture				
ShoH	4	Depth from zero	% CF	% CF	\$ ℃	
ios		Texture				
		% Surface Stone/Rock				
	Mois	Moisture Regime				

TO STATE OF THE PARTY OF THE PA	Poly	gon: 615 - 556
Surveyor(s):	Date:	Time start Avenue
UTMZ:	UTMZ:	UTMN:

System	Substrate	Topographic	Plant Form	Community
Terrestrial Owetland OAquabic	Organic OMineral Soil OParent Min.	Lacustrine Riverine Bottomland	Dlankton Submerged Ploating-LVD.	DDD Pond
Site	☐ Acidic Bedrk	CTerrace	Commission	100000
Open Water	Basic Bedrik	Valley Slope	969	Swamp
Surficial Dep.		Colff Upland	Bryophyte	
History		CTakes	Conferens	
U Natural		Crevice/Cave	Cwase	Prairie
Cover		Rockland		D D D D D D D D D D D D D D D D D D D
Open		Sand Dune		O Woodland

Stand Description

Layer HT CVR	보	S	(>> Much Greater Than; > Great
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n	1		
4			
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HT Codes: 7 -0.2m 6 -0.2-0.5m 8 -0.5-1m 4 -1-2m 3 -2-6m 2 -6-25m CVR Codes: 0 = none 1 0Ns -10N 2 10 -25N 3 25 - 60% 4 - 60%

60	Grand Composition	Size Class Analysis:	k10	10-24	25-60	S
Deadfall / Logs: <10 10-24 25-50	and the same	Standing Spage:	610	10-24	25-50	95
	D.A.	Deadfall / Logs:	95	10-24	25-50	200

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

Com. Age:	Pioneer	Young	× Mid-Age	X	Mature	Old Growth
Footier	Day Freely Gills	AL MARCH DEC	The state of the Making Seculoses Front Probable	off.	Code:	Code: 7005
Vegetation	Dev-Form SueA	neaemble-Hickon	on Bealuars Fare	150	Code:	FJOS-S
inclusion:					Code:	
Complex				-	Code:	

Community Profile Diagram/Comments

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DOLL OF ALL TREASURES TORK	Takife out all hacewoods	1	1		1	1		
DOLLY ON THE SAM FLEGOR CORN. A, AUT HACKWOODS	Takife ash + 5M finon and Bis of all hackwoods	Ŀ	ł		1	I	4	
acte ass = sw then and	Takife out to six firen and		ŧ	1			4	
acte ass = sw then and	Takife out to six firen and		ŧ				1	
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ACT OSS = SW FLOOR OFF	lacye ash = 5M finon and bix q all hackwoods	ŧ	i	1	i	i	3	
ACT OSS = SW FLOOR OFF	lacye ash = 5M finon and bix q all hackwoods	į.		i	i	3	1	
ACT OSS = SW FLOOR OFF	lacye ash = 5M finon and bix q all hackwoods	ł	ŧ	1	Ť	1	1	
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% Surface Stone/Rock Moisture Regime	los	Texture					
Moisture Regime Drainage		% Surface Stone/Rock					
Drainage	Mo	isture Regime					
	ő	ainage					

VASCULAR PLANT CHECKSHEET

Date: February 1, Zarz

Observer: JD Job Number:

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illea millefolia	П	Т	П			Erigeron annual						rtago lancesista	н	++			Allum trooppum	+	H	+	Н	ł
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taes nubra	П	\top		П		Erigeron strigosus			1		Pla	rtago rugolil	Н				Allum	+	н	+	н	ł
pirus	H	+	۰	Н	П	Erysimum chierartholdes	П	П	Т	П	Po	dophyllum pellutum	ш				Arlssema triphyllum	4	Н	4	Н	1
person	н	+	۰			Eupatorium maculatum	п	П	т	т	Po	ygonum					Asperagus efficiralis	_	ш	4	\perp	1
pirronia gryposepala	н	+	٠				Н					ygonum	П		П	Т	Celte paluntria		ш			1
laris peticlaris	₩	-	+				н					lygenum -	П		П	Т	Clirtonia bonesile					1
maranthus retrofesus	Н	4	+			Eupstorium rugorium	Н	Н	+	+	100	ygerum lapathifolium	н	+	н	+	Cenvalturia majus	\Box	Т	П	т	1
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rtermanta reglecta			4	-		Gallum	+	₽	н	+	10	orde elletime	+	+	+	_	Lemma miror	П	т	П	_	7
pocytrum andressemifolium			1			Gallum palustre	_		ч	-	10	yrols elliptica	+	Н-			Lamna trisulos	++	+	н	+	-
pocynum cannabinum		П	т	Т	т	Gallum triflorum	1			1		anunculus	-	4	+	+	Larren Crows	₩	+	₩	+	-
quilegia seredensis	-	Н	+	+	+	Geranium maculatum	1		П		- IR	anunculus abortivus	1	ш			Ulium	₩	+	₩	+	_
autega terretarian	+	H	+	+		Geranium robertianum	т	т	п	т	TR	anunoulus sorts					Moorthemum canaderses	\perp	4	14	4	_
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ganum canadense +		П			_	Geum	1	4					+	++	+	H	Portederia cordata	++	+	11	+	-
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Auter macrophytus	+	т	П	П	1	Hypericum perforatum			T			Skim susve	_	11			Sagitaria letfolia	-	Н	+	Н	ŀ
	+	+	H	Н	-	Impatians capanels	T		Т	П		Solenum dulcemens					Sisrynchim mortanum		ш	1	ш	Į.
Ader novae-anglise	-	+	Н	н	н	linula helenium	т	+	+			Solidago	\neg	П		П	Smlax herboosa		ш		ш	1
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Barbarea vulgeris	_	1	ш	ш		Lactura	\rightarrow	4	+	н	н	Bulliance extends	-	++	+	-	Spirodela polymiza	1	П	τ	П	t
Bidens cemus						Laportes canadensis	ш	4	-			Soldago caesis	-	++	_	_		+	н	+	Н	t
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Cerstophyllum demeraum	-	+	4-	+	-		+-	Н	+	+		Yarassum efficients			П	т			1	П		
Chelidonium majus	_	1	4	1	1	Lycepus	+	Н	+	+	+	Thelighum dioloum		-	Н	+			Т	П	Т	
Chanapedium sibum		_	1	1		Lysimachia ciliata	+	Н	-	+		Thelictum pubaccars		+	Н	+		\neg	т	п	т	٦
Chrysarth, leucarthamum			1	_		Lythrum sullowis	+	-	4	+			_	+	Н	+		\neg	+	Ħ	1	ī
Clohorium Intybus		П	т	т	Т	Medicago lupulina	_		ш	_	1	Tiarella cordifolia	_	-	+	+		\rightarrow	+	H	+	7
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Chalum sevence	_	Н	+	+		Minutus ringens	+	+	H	+	+	Trifolium protence		П	T							
Circlum vulgare	1						+	+	H	+	+	Trifolium repens		-	_	н			T		T	
Clematis virginiana .		П	1	1	1	Minutus ringens /	Ŧ	+	H	-	+	Tomology factors			1				T		T	ſ
Cirdonia bonesis	-					Maila diphylia	1	1	ш	_	1	Tussilago farfara	_	++	+	+	11	\rightarrow	+	7	7	-
Conyza curadensis	-	П		T	T	Monarda flatulosa	1	1	ш		1	Urtica diolea	_	++	+	₩	11	\rightarrow	+	+	+	Ė
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Dipsecus fullerum		_	П	П	П	Oumorhiza		_	1.	Ш	ш	Vicia eracca	_							+		
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Ī	Berberis thunbergii					1	1	+	Vilia americana -	X	K				1	Carex	4	1	1	1	1	1
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	Fraxinus nigra	+	+	۰	+	+	7	╛	FERNS	†	т	+	1			Juneus effusus	\neg		Т	\neg	T	Т
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H	Ilex verticillata	×	¥	+	+	+	+	\dashv	Athyrium filix-femina	+	+	+	t	Н		Juncus	\neg	\neg	7	\neg	\neg	Ŧ
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H	Juglans cineres	+	+	+	+	+	+	-	Botrychium virginianum	+	+	+	+	Н		Lecraia oryzoides		Н	\dashv	\neg	-	7
k	Juglans nigra	+	+	+	+	+	-	-	Cystopteris bulbifera	+	+	+	+		-	Muhlcobergia	\neg	Н	-	\rightarrow	+	\dashv
L	Lonicera morrowi	+	+	+	+	-	-	-		+	+	+	+		-	Oryzopsis asperifolia		Н	\vdash	\rightarrow	\rightarrow	\exists
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l.	Malus pemila	4	1	4	4		+	10	Devopteris marginalis	+	4	+	-	+	-	Phalaris arundinaces	_	\vdash	\vdash	\rightarrow	-	-
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t	Prunus pennylvanica	П	П		П		П	Г	Lycopodium digitatum			\neg			L	Scirpus atrovirens	11		1			
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-	Rhammus cathartica	-		-	-	+	+	+	Osmunda regalis		-		+	+	+	Typha angustifolia		+	1	+	_	
-	And the second s			-	+	+	+	+	Polystichum acrestichoide	-	-		+	+	+	Typha latifolia		+	+	+	\vdash	1
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Lineath	Polygon	8712-5e1
reyor(s):	Date: Ti	Time start (1.35co
UTMZ	UTMZ:	UTMN:

Polygon Description

Wetland Organic Cacustrine State Cacustrine	System	Substrate	Topographic Feature	
Water DAcidic Bedrix Water DBasic Bedrix Wyster DCarb. Bedrix Sign Dep. Corb. Bedrix Sign Dep. Corp. Bedrix Sign D	■ Terrestrial Wetland Aquatic	OMineral Soil	Riverine	
Water DBasic Bedrik ow Water DCarb Bedrik ist Dep. cock tory al	Site	☐Acidic Bedrik	Terrace	_
cal Dep.	Dopen Water	Dear Bedrix	Valley Slope	,,,
s all sold of the control of the con	Surficial Dep.	1	DRoll Upland	
Nec Nec	- Bedrock		Talus	-
, ser	Natural		Crevice/Cave	_
	Ocultural		DAlvar	_
	Cover		Rockland	
	Dopen		Sand Dune	_

Stand Description

ayer	Ħ	HT CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
-	-	7	ACE FREE > FRANCENIO - FRANICE > TILAMER
ev			
m			
4			

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

		ı		200	5
Stand Composition	Size Class Analysis:		10-24	No-ox	8
-	Standing Spage:	410 VI	10-24	25-50	98
	The state of the s	L	10.00	25.50	980
BA:	Deadtall / Logs:	١	13-01	2000	1
			A A A A		

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

Com. Age:	Pioneer Young Mid-Age	per	Young	Ž	id-Age		Mature	Old Growth
Ecosite:	Maple	WANERA	MAPLE MULICIAL DELIBURING SLIGHT COOKE STAD	SAN SAN	THE EC.	和8	Code:	SWOR
Vegetation Type:	SWAMP	MAPLE	SWAMP MAPLE MINERAL DECKLION	ר ספכר	SHOW	MANY	Code:	Code: SWO3-3
Inclusion:							Code:	
Complex					7		Code:	

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Species	Tally 1	Tally 2 Tally 3	Tally 3	Tally 4	Total	Total Rel. Avg.
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otal						
Basal Area (BA)	5					
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	9	Ontario and	ELC	Soils Description		
						Summary
	0	Pit/Auger #				
	E	Zone				
90	MTI	Easting				Moisture
etric	n	Northing				Regime
90 0		Position -				
415		Aspect				
1	dog	Percent				
	S	Slope				Drainage
Г	Mottles	68				
	Gley					Effective
4	Wate	Water Table				Texture
da	Carb	Carbonates				(indicate
a	Bedrock	ock				pelow
	-	Depth from zero	% CF	% CF	% 5	200
		Texture				
	N	Depth from zero	% CF	% CF	% P	% CF
uoj		Texture				
secub	m	Depth from zero	% CF	% CF	% P	% CP
G uc		Texture				
Horiz	4	Depth from zero	% CF	% CF	% CF	% CF
lios		Texture				
		% Surface Stone/Rock				
	Mois	Moisture Regime				
	Drai	Drainage				

Species					Total Rasal Area (BA)	Dead	Soils Ontar	Pit/Auger #	Zone	MTU		Position	S	-	Mottoe	-	_	Carbonates	Bedro	1 Depth fn	Texture	2 Depth fr	_		3 Zero	Texture	4		Sextime	% Surfa Stone/R	Moisture Regit
Start Start	ä		Community	Dunke	ORiver Street	OMarsh	OSwamp	080	Darren	Derairle	Savannah	Woodland	Piantation		e (up to 4 sp)	our Equal To)	HPENN			1 >25m	08-60 1-50		25-50 Poo		re Old Growth	FuoS	Fuo 5-2				
Time start	UTMN:		Plant Form	Plankton	Ploating-LVD.	Grammoid	DUChen	Bryophyte	Conferens	Civilizaci					reasing Dominanc	Greater Than; = Al	FACCRAN Z I LAMER Y PRAPE NIN			3×2-8m 2×6-25m 4×60%	10.34	Ш	10-24	A = Abundant	Age Mature	not Fress Code:	Code:	Code	Code:	ents	
Date:	UTMZ:		Topographic	Lacustrine	Bottomiand	Terrace	Tableland	Ociiii Upland	OTalus	DAhar	DRanch / Bar	DSand Dune	□8ln#		Species in Order of Decreasing Dominance (up to 4 sp)	>> Much Greater Than; > Greater Than; = About Equal Tol	> FREERANZ			4>1-2m 3 25 - 60%	Contraction of Lates		Deadfall / Logs: k10	tare 0 = Occasional	Young X Mid-Age	One-Fresh Supple Mitte Delibrations find Flourite	Alle Approved to	JUY-TICKLE STATES - THE PERSON OF THE PERSON		Diagram/Comments	
Surveyor(s):	UTMZ:	Description	Substrate	Organic	Descent Min.	☐ Acidic Bedrik	Carb. Bedrk							Description			ALESACC			6 + 0.2 0.5m 5 + 0.5 tm 10% - 10% 2 10 - 25%	-	on: Size Class Analysis: Standing Snags:	Deadfall	N = None R = Rare	Pioneer Y	- Front Cuefit	0	PARAMETER I		Profile Dia	
_	Classification		System	t		Site	Open Water	Surficial Dep.	History	ural	Cover	c e	P		T	HT CVR	+	-	-	7 -0.2m		Stand Composition:		Abundance Codes:	:eb	Footie: Dec	+-	7	sion:	nity	
Comin	Classi	Polygon	8	Terrestra	D.Wetland		Sha	Surficial	Ī	Contural	0	Shrib	Tree	Stand		Layer	-	n e	**	HT Codes:		Stand	BA:	Abundar	Com. Age:	FCOS	Vegetation	Type:	Complex:	Con	H

	Ш	Total	Basa	Soils		_	50	plute	W a	415	Ž.			0	9 40	dec	1				uog	pluse	on De	Horizo	lios			
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Snacias			Basal Area (BA)	Ontario ar	Pit/Auger #	Zone	Easting	Northing	Position -	Aspect	Percent	Slope	50		Water Table	Carbonates	ock	Depth from zero	Texture	Depth from zero	Texture	Depth from	Texture	Depth from	Texture	% Surface Stone/Rock	Moisture Regime	2000
Tally 1				and ELC S														% CP		% CF		% CF		% CF				
Tally 2				Soils De							1									u		D.						
Tally 3				Description		1	1			1	1	-	1			1	-	% P		% CF		% CF		% P				
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Rel. Avg.		100			Summary		Moisture	egime			- Inches	diaman.		Effective	Texture	(indicate	30 79	e.		% CF		% %		\$				

Location: Bluewater - BT12-561 Observer: JD

VASCULAR PLANT CHECKSHEET

Date: Fobryary 1, 2012

Job Number:

illea millefolia dess pochypoda fassa nubra galinus grimonia gryposepala filaria peticlaria maranthus netrolianas mbronia schemiostifula mphicerpasa bracteula maranthus margaritacea maranthus margaritacea marantea menoria caradianala menoria caradianala menoria caradianala menoria caradianala menoria sanadensia menoria sanadensia menoria maglecta geocynum androssemifolium spulpia caradianala malia mudicalias maliamia malias maliamia dehyita Gartiamine Castelorium malias Costranticorium Costranticorium Costranticorium Costranticorium Costranticorium Costranticorium Costranticorium Costranticorium Costranticorium					Erigetor Eyelmu Eupstor Eupstor Eupstor Eupstor Euphort Euthum Fraget Fraget Gallom Gallum Gallum Gallum Gallum Gallum Gerani Geum Geum Geum Geum Geum Geum Geum Geum	philadelphicus n shrigosus am chierartholdes ium meculatum ium perfolatum ium nugosum iis grannicifotis a virginiama a vescu sis tetrahit palustre s trillotum ium moculatum ium moculatum ium moculatum ium robertianum aleppicum carisafores ma hedersces					Partiago lanceoleta Partiago major Partiago major Partiago major Partiago major Padophyllum petintum Polygonum Polygonum Polygonum Polygonum lapathifolium Polygonum lapathifolium Polygonum ponticarta Polygonum ponticarta Polygonum ponticarta Polygonum ponticarta Polygonum lapathifolium Polygonum P					Alliama phartago-repatina Alliam tricoccum Alliam Alliam Alliam Apparagus officinalis Culla paluntris Cirtoria berealis Corvellaria majus Cypripodium dalcoctus Eleden caradensis Epipodis heliaborina Erythronium americanum Hemerocaliis fulva bris vereloctor Lemna minor Lemna minor Lemna minor Lemna minor Lemna minor Lemna trisulea Ulium				
rases rubra palinus princia gryposepala liaria patolaria marantihus retrolaria marantia marantihum marantia reglecta posyrum androssemitalium peogyrum androssemitalium peogyrum androssemitalium peogyrum carnatinum Apulla rudiasulis malia rudiasulis Carlamine Carl					Erigetor Eyelmu Eupstor Eupstor Eupstor Eupstor Euphort Euthum Fraget Fraget Gallom Gallum Gallum Gallum Gallum Gallum Gallum Gerani Geum Geum Geum Geum Geum Geum Geum Geum	n efriguese m chierentholdes ium meculatum ium perfoliatum ium nugerum ilis pranivitotis a virginiama a vir					Pantago rugelli Podophyllum petatum Polygorum Polygorum Polygorum lapathifelium Polygorum lapathifelium Polygorum ponicarta Potentilla Potentilla Potentilla renta Presentes alla Prunella vulgerle Pyrola elliptica Ranunculus					Albam Adasema briphyllum Adasema briphyllum Asparagam officinalis Culla paluntris Cirtonia borqualis Convellaria majus Cypripeditum delevolus tilodes caraderelis Epipacits heliaborine Epiphyrodum umericanum Hemerocalis fulva bra vendoolor Lamna miror Lamna miror Lamna trisulos Ullum Bablanthomum caraderpa				
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	Thuja occidentalis	\top	т	т	т	т	т	т	Salix bebbiana	П							Carex blanda						
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ľ	Fraxious peensylvanics		X	Œ		-			Adiantum pedatum		_1	-		_1		02	Juneus tensis			-	1	1	1
r	Ilex verticilists				Т		Т	т	Athyrium filix-femina		П	\neg	П	\neg	П		Juncus						
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ļ	Means pursua	_	+	+	+	+	+	+			-	H		\vdash	-	-	Phalaris arundinacea				1		7
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the second second	00	7107175		HIMSEL 10-WOLDEN
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Jolygon Description	scription			
System	Substrate	Topographic	Plant Form	Community
Terrestrial Wetland Aquatic	Organic OMineral Soil OParent Min.	Cacustrine CRiverine Catomiand	Submerged Submerged Floating-LVD.	Pond River
Site JOpen Water	☐Acidic Bedrik ☐Basic Bedrik	UValley Slope	- Grammond	Marsh
Shallow Water Surficial Dep.	Carb. Bedrk	CRoil Upland	Bryophyte	Les and
]Bedrock History		OTalus	Conferous	Barren
Doutural		Ocrevice/Cave	DWixed	Meadow
Cover		Rockland		Thicket
Johan		Sand Dune		D Woodland
Treed		T Course		Diantation

Stand Description

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HTCodes: 7 -0.2m; 8 -0.2-0.5m; 8 -0.5-1;m; 4 -1-2m; 3 -2-4m; 2 -6-25m; 1 -25m; 2NR Codes: 0 = none +10Nr -10N; 2 10 -25N; 3 25 -60N; 4 > 60N;

Stand Composition:	n: Size Class Analysis	A < 10	10-24	25-50
	Standing Shag	110	10-24	25-50
BA:	Deedfall / Logs	101>	10-24	25-90
Abundance Codes:	N = None R = Rare 0 = Occasio	0 = Occasional	onal A = Abundant	

8 8 8

N = None R = Rare O = Occasional A = Abundant

Com. Age:	Com. Age: Pigneer	Young	X	Mid-Age	Mature	Young Y Mid-Age Mature Old Glown
Ecosite:	Rash-Mast	Lowing Decide	300	" east beaute	Code:	F007
Vegetation Fo	FORTHMOST	Vegetation Fast-Most Ast Lowbood December Fort Type Code: 1507-	His	cus fourt Type	Code:	507-5
Inclusion:					Code:	
Complex					Code:	

Sommunity Profile Diagram/Comments

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Votes

Tree Tally by Species	cies			Pris	Prism Factor	7
Species	Tally 1	Tally 2	Tally 3	Tally 2 Tally 3 Tally 4 Total Rel. Avg.	Total	Rol. Avg.
		Contract of	STOR -	100		
THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSONS AND PE						100
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Soils Ontario and ELC Soils Description	ELC S	oils De	scripti	no		
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α.		MTI	1		9	dog	S	1	Glev	Wate	Carb	Bedrock			ev		-		4			Mois	Drain
Pit/Auger #	Zone	Easting	Northing	Position	Aspect	Percent	Slope	rengun	60	Water Table	Carbonates	ock	Depth from zero	Texture	% Surface Stone/Rock	Moisture Regime	Drainage						
													% CF		% CF		% CF		% CF				
												100	%CF		% CF		% CF		% CF				
												107 70	% CF		% CF		% CF		% CF				
Summary		Moisture	Regime				Drainage			Texture	(indicate	pelow)	6		6		67		6				
2		2	0				e a		10	2 9	2		% CF		% CF		% CF		% CF				

Location: Bluester BT/3-5C2-Observer: JD

VASCULAR PLANT CHECKSHEET
Date: February 1, 10/2

Job Number:

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illea mitefolis						Erigeron annual						rtago lancedista	Н	+	+				Н	+	+	Н	н
taes pochypods		Т	П	П		Erigeron philadelphicus						rtago major						Wium tricocoum	₩	н	+	н	н
taga rubra	+	+	П	П	7	Erigeron strigoous	П	т	т	П	Pla	rtago rugelli	ш	_	L	ш	1	Vium	\perp	Ц	_		ш
	+	+	Н	н	7	Erysimum chierartholdes	П	_	т	П	Per	ophylum petutum	П		Т			Artsaems triphyllum	\perp				
sious	+	+	Н	Н	-	Eupotorium meculatum	Н					ygonum	П	T	т	П		Asperagus officinals					
rimonia gryposepsia	н	+					Н					ygonum	Н	+	T			Celle pshafris	\Box	П	T		г
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oprison passa special	н	+	+	н	П	Fragaria Virginiana	т	П	7			tertifis .	10					Elodaa eanaders/is		ш	_	_	L
sephalis margaritaces	н	+				Fragaria vecca	+	Н	+	+	恢	tartifia norvegica	П		т	т	П	Epipacits heliaborine					
emone	Н						+	Н	+			tertila recta	1	\vdash	+	+	П	Erythronium americanum	T	П	т	т	т
emone ceradensis	Н	-	+			Galeopsis twishth	+	н				ecerthes also	+	н	+	۰		Hemorocallo fulva	+	Н	-	+	t
wmone virginians			1	-	-	Gallum	-						-	-	+	+		Irls versionior	+	н	+	+	٠
dennarta neglecta	П					Gallum	1	ш				urella vulgaria	+	н					+	₩	+	+	+
pocynum androssamifolium	П	_	T	т	П	Gallum palustre	т	П	Т	Т	胁	rois eliptica	1	ш				Lemna minor	-	11	н	-	4
pocymorn energine respons	Н	+	٠	+		Gallum triflerum	+	П	т			enunculus	Т	П				Lamns trisulos		\perp	Ш	_	1
ocymum cannabinum	-	-	+	+	-	Geranium maculatum	+	н	+			arunoulus abortivus	т	П	T	т	Т	Llium	\mathbf{T}	П	П	т	Т
pullegia carederols	-	-	4	+			+	н				anuncidus seris	+	Ħ	+	+	+	Malartheman canaderine	\mathbf{T}	T	п	7	т
ralla nudicaulis			1	_		Geranium robertianum	-	Н	4				+	₩	+	+	_	Melanthemum racemoss	+	+-	H	+	+
refurn minus	Т	П	Т			Geum alappioum	_		ш			udbeckle hirts	+	н	4	4			+	+-	н	+	+
demisia	+	н	+	+	т	Geum canadense	Т		П	1	IR	umex sostosetts	1	ш		1	_	Malarthemum stalists	-	+	н	4	4
	+	H	+	+	_	Geum	+	$\overline{}$	П	_	顶	umex ofepus		П				Platerthera			1.1	1	1
sprum ceroderos	+	Н	+	+			+	+				TALLOR	т	П		т	т	Portederia condata		T	П		T
scieptas ireamsta	-	Ц	4	1		Glecoma hederacea	+	+	н	+	-67	and deads exceptions	+	₩	\forall	+	+	Polygonsburn pubwspens	+	-	П	1	+
eclopias syriocs	1	Ш		1		Hepotica scutilobs	1	1.	ш	4	18	anguinaria canadensis	+	₩	H	+	+	Dishamadan adam	+	+	H	+	+
ater	1	П		T		Hesperis matromite			П			anicula martiandica	4	\perp				Potamagaton erispus	+	+	+	+	+
der cordfolius	+	П	1	+		Hieracium aurantiscum	T	T	П	T	5	aponeria officinalis	1		Ц			Polamageton pectinstus		1	ш	_	1
stat corditions	+	H	+	+		Hieracium coespitocum	+					afureja vulgaris	T			T	T	Potemagaton					
ster ericoldes	-	Н	-	+			+	+				cutellaria galericulata	+	1				Petamageton				П	T
efer lanceoletus		Ш	_	_	-	Herocium	4	+	Н				+	+				Potamagaton	\pm	+	+	H	+
oter lateriforus	T	1		T	T	Hydrophyllum virginlanum			Ш	_	_	illens vulgaris	4	-					\rightarrow	+	+-1	H	+
ater macrophytus	+	П		+	T	Hyporloum perforatum.		T	1			ium susve			Ш	Ш	_	Segitaria latifolia		1	4	Ц	_
	+	Н	H	+	+	Impeliena capenda	1	1	П	П	1	olanum dulcamara	T				T	Sisryrichim mortanum					
ater novee-englise	-	+	Н	-	+		-	+	-	_	-	Solidago	_	+	П	П	_	Smilax herbaces	\neg	T	Γ	П	П
oter puniceus	1		Ц	4	4	fruis helenium	-	+					-	+	-			Spirerthes corrus	\neg	+	+	Н	Ħ
tarbanea vuigeris	Т	1				Lacture	_	4				Solidago ultissima	-	+	-				-	+	+-	н	Н
Idens cemus	_		П		т	Laportea canadensis		1	1			Solidago stensia	_	_				Spirodela polyrhiza	-	+	+	Н	Н
idens frondoss	=	=	Ħ	=		Lapuaria constituta		=	$\overline{}$			Solidago canademós	_	1	-	ы	_	Streptopus roseus	_	_		ш	ш
Contract of the Contract of th	+	+	н	+		Leonurus cerdiaca	н	+	+			Soldago flexicaulis	_	7	Т	П	т	Trillium erectum					
Boehmeria cylindrica	4	_	Н				Н	+				Solidago gigardas	-	+	+	Н		Trillium grandifionum	\neg	\neg	\mathbf{T}	П	П
Caltho palustris	_	1				Lepidium	\perp	4	+				-	+	+	Н	+	Uvuluria grandiflora	\neg	+	+	Н	н
Colymbegia sepium	\neg			П	П	Uraria vulgete		-	_			Soldago remoralis	_	-	-	ы	4	Ovusia granuciora	-	+	+	н	н
Santamira diphyla	_	+	П	П	7	Littrospermum officinate	П	т	т	П	П	Solidago rugnos	_ !		1	ш	_		_	ч	+	н	
Control of the Contro	-+	+	1	н	7	Lobella	П	7	+		п	Sonetrus arvensis	_		1					ш	_		
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Caulophyllum thatatroides	_	1				Lobella Irfiata	Н	-					_	+	+	1	H			П	+	\mathbf{T}	г
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	-	+				Lycepus		\neg	_	т	П	Taraccum officinals						No. of the last of		ш	_	┸	L
Challdonium majus	-	+	+	н	Н	Lysimachia ciliata	+	H	+	+	Н	Thalictrum dialoum		т	Т	т	П			П		1	
Chenopodium album	_	4	-			Lygernaurea Consta	-	н	+	+-		Thefictrum pubescens		+	+	+	П			п	т	т	г
Chrysarth, leucerthemum		1					-	н	+	+			-	Н	+	+	Н			н	+	1	F
Cicharium intytus		1	1			Medicago lupulina	_					Tiarella cordifolia	_	н	+	+	н		_	н	-	+	٠
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	\neg	+	+	1	т	Melletus altra	1	П		Т	Т	Trierfals boresits		ш					_	ш	_	1	1
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Cirplum sevense	_	4	+				+	Н	+	+	+	Trifolium prutense	_	т	_	-	2.5					T	T
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Clematis virginism -		F	1	1	1	Menulus ringens /	1	Ħ		1	#	Trifelium repers	-	-	-	-	-		_	+	+	+	+
Clintonia boresia		П	т	т	Т	Mbila dphylix	1				1	Yussilago farfara		ш	ш	1	1		_	+	\vdash	+	+
Consulta promisente		7	+	+	1	Monarda fistulosa	T	П	П	T	T	Urtica dioles				1	1				ш	4	4
Conyza caradenda	_					Myosots	+					Utricularia vulgaria				T	Т				_	1	_
Coronilla verta		Н	+	+	+	Nasturium officigale	+					Verbascum thapeus					T				П		
Cymenchum ressleum							+	+	Н	+	+	Verbers hastata	_				+				Ħ		
Cynoglossum offstrale						Nepota odorix	1	1	ш	4	1	Veryers resident	-								Н		
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	_	₩	H	+	+	Oeroffuera bierrris	+					Verorios efficiralis									Ц		
Diaretrus armeta	_	₩	н	+	+	Competitor	+					Viola craosa		T	П	П	T				П		
O'psacus fullorism						Osmortiza	+					Vicia tetrasperma	_							T	П	П	П
Exhinosystis lotata	_		Ш		1	Oxalla stricta	4						_						-		T		
Eighburn Volgage			П		_	Phyrms leptostactive		1		ш	_	Viola	_						_	+	+	Н	\vdash
Epilobium		1	П		T	Physisis heterophylia	T					Viela:							_	+	+	н	Н
	_						7	+	т	П	П	Viola pubercana			1					_		_	
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CONIFERS		1	2	3	4	- 5	6	-	TREES and SHRUBS	1	Z	3	4	5	9		GRAMINOIDS		4	4	7	3	읙
bies balsames		I	\perp					+ 1	Rosa multiflora	Ц	4	4	_	_		1	Agrostis gigantea	-	\dashv	+	-	+	4
uniperus communis		1					_		Rosa	Ц	4	4	_	_	_		Agrostis stolonifera	-	-	-	-	+	4
uniperus virginiana		1		5.					Rubus alleghenicnais		_	_	4				Адгорутов гереня			-	4	4	4
aris faricina						-			Rubus idanus	Ш		_					Alopecuris		Н	-	-	-	4
Picea ables		1							Rubus occidentalis			-,					Bromus inermis			_	_	4	4
Piora glauca		٦		1				П	Rubus odoratus			1				Ц	Calamagrestis canademis				_	4	_
Pinus resinosa		П						П	Rabas pubesoms							П	Carex arctata				_	1	_
Pigus strobus		7						П	Salix alba		- 1		15		3	П	Carex aurea						
Pinus sylvestria	\neg				\vdash			П	Salix amygdaloides							П	Carex bobbii	Π.	10	1			+
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I Infa causocum	\rightarrow	-	-	-	٠	+		1	Salix eriocephala	+	Н				1		Cares granularis		т				
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TREES and SHRUBS		*	-	₽	÷	1	-	ŀ	Salix purpures	+	-	-	-	+	+	٠	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	+	٠	-		\vdash	
Acer negundo				┺	1	+	1	4	Salix x rubena	-	1	-	-	+	+	+	Carex stipata	+	+	⊢	-	\vdash	-
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Acer saccharinum		\otimes	1_	1	1	L		1	Sambocus canadensis	-	L	1	┺	+	1	1	Carex vulpinoidea	+	+	⊢	-	\vdash	_
Acer sacobarum		9			T	1		1	Sambucus racemora	_	L		_	1	1	1	Carex	+	+	-	-		-
Acer spicatum			Г			1	T	T	Sorbus aucuparia	1	1	1	1	1	1	1	Carex	1	1	-	-	+-1	-
Alnus rugosa		Г	Т	T	T	T	1	T	Spiraea afte		1				1	1	Carex	1	1	-	1	\sqcup	
Amelanchier			T	T			T	1	Syringa vulgario		T	1		1	T	J	Carex		1				
Berberis thunbergil			1	t	1	+	1	1	Tilia americana		T	T	Г	T		T	Carex			1			
Betula alleghaniensis		H	٠	+	+	+	1	1	Ulmus americana	18	1	т	т	T	1	T	Carex	1	Т	Т	Т		
		۲	+	+	1	+	+	+	Ulmus	1	T	+	T	1	T	1	Carex	T	T	T	T		Γ
Betula papyrifera		+	+	+	+	+	+	+	Vaccinium	+	+	+	1	+	+	+	Carex	+	1	1	1		Г
Carpinus caroliniana	_	-	+	4	+	+	+	+	Viburnum lentago	+	+	+	۰	+	+	Ť	Carex	+	+	1	+	1	t
Carya cordiformis	_	1	+	+	+	+	+	4	and the same of th	+	+	+	+	+	+	+		+	+	+	+	+	t
Celastrus scandens		1	4	4	4	1	1	4	Vibumum opulus	+	+	+	+	+	+	4	Cypens	+	+	+	+	+	₽
Corrus alternifolia		L	1	4	4	4	1	4	Vibernum	-	+	+	4	1	+	4	Cyperus	+	+	+	+	+	÷
Cornus amomum		L	1	1			1		Vitis riparia	_	1	4	1	1	4	4	Dactylis gloonerata	4	+	1	+	-	₽
Comus regota		I	1	1	1	7	1			-	4	1	4	4	1	4	Dasthonia spicata	4	+	+	4	-	+
Cornus stolonifera		t	ব	7		Т	T				Т	1		1			Echinochioa crus-galli	_		-	1	1	1
Corylus cornuta	7.0	Ť	+	7	7	\neg		П		\neg	Т	Т.	1	Т			Eleocharis erythropoda		1			1	1
Crataegus monogyna		t	+	7	7	7	1			_	Т	Т	Т	Т	Т	П	Eleocharis				T		T
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the same of the sa	_	+	#	=	=	=	#			=	#	=	#	=	=		Elymus //f-	=	XI.		1	-	1
Crataegus sp.	_	+	+	-	-	+	+	-		-	+	+	+	+	+	-	Festuca arundinaces	-1	1	+	+	+	Ť
Crataegus		4	+	-	-	-	-	-	-	-	+	+	+	+	+	-	Glyceria striata	7	+	+	+	+	t
Diervilla lonicera		4	4	4	_	4	4	_	1	-	4	+	+	-	-	-	The second secon	-	+	+	+	+	+
Fagus grandifolis		4	4	_			_			-	4	4	4	4	-	_	Glyceria	-	+	+	+	+	+
Fraxinus americana		1	_							_	4	4	4	4	_		Jancus dudleyi	-	-	+	+	+	+
Fraxinus nigra	-	ŀ	×						FERNS	_	_	4	4	_			Juneus effinus	-	-	+	+	+	+
Fraxinus pennsylva	nica .		×		-				Adiantum pedatum	_		_	_	_			Juneus tenuis	-	4	-	4	-	4
Hex verticillata		Т							Athyrium filix-femina	-	4	_					Juncus	_	_	-	4	1	1
Juglans cinerea		ℸ						3	Botrychium multifidum	-1		П					Joneus			_	1	1	1
Juglam nigra		1	$\overline{\times}$					Г	Botrychium virginianum		1						Leersia oryzoides	-				1	
Lonicera morrowi		7			1			Г	Cystopteris bulbifera			\neg	4				Muhlesbergia	7					1
Lonicera tatarica	_	7		-	-	7	Н	H	Dryopteris carthusiana			\neg				Г	Oryzopals asperifolia				\neg	1	1
	_	-			-	-	Н	۰	Dryopteris cristata			Н				Н	Panicum		П		\neg	Т	Т
Loniorra -	-		-	-	+	+	-	-	Deyopteris marginalis			\vdash				1	Panicum'					1	1
Malus pumila	_	-	-	-	+	-	+	+	Dryopteris		-	H			-	-	Phalaris arundinaces	_77	X		1	T	1
Ostrya virginiana	-	-	-	-	+	-	-	+-		-	-		-		-	-	Phicum prateruse	-	1		=	+	=
Parthenocissus into			-	-	+	1	-	+	Equisetum arvense	-	H		-	-	-	+	Phragmites australia				+	+	7
Populus balsamife	1	_	-	-	1	-	-	1	Equisetum hyemale	-	H	-	-	-	-	+	and the second s	-		\vdash	-	+	+
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Populus tremuloid	cs		X	1	1	1	1	1	Equisciam	- 17	-	-	-	-	+	1	Pea pratensis	_	-	H	-	+	4
Populus	1			L	1	1	1	1	Gymnocarplum dryoperis		1	-	-	-	1	1	Pos	-	-	\vdash	\vdash	+	-
Prunus pensylvani	CD.			T	T	1	T	T	Lycopodium digitatum						L	1	Scirpus atrovirms		1	1		1	
Prunus serotina			Г	T	T	1.	1	T	Lycopodium obscurum			1		-	1	1	Scirpes cyperinus		1	ш	-	\perp	
Propos virginiam			T	T	-	1	T	T	Lycopodium				1	1	1	I	Scirpus validus		1.	ш			
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Quercus mucrocar	200	-	5	đ	+	1	+	†	Matteucia struthiopteris		Г		1	T	T	T	Scirpes		I	1			
Quercus rubra			f	+	+	+	+	+	Onoclea sensiblis		T	T	Т	T		T	Setaria						1
Quercus	_	=	+	+	+	+	+	+	Osmanda cinsamonía		+	+	۲	+	1	†	Sparganium		T		4		
Quetens	-	-	+	+	+	+	+	+	Osmunda regalis		+	+	+	+	+	+	Typha asgustifolia		T	T		П	
- Rhammus catharti	-8	_	+	4	+	+	+	-	Polystichum acrostichoid	_	+	+	+	+	+	+	Typha latifolia		1	+	1		
Rhus radicans		_	+	4	1	-	+	4		CI _	+	+	+	+	+	+	Typha Xglauca	-	+	+	tř	Н	-
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Ribes americana		4	1	1		-			Thelypteris palastris		1	1	1	1	1	_		_	+	+	-	₽	-
Ribes cynosbati	-		T	T	-	T	T				T	Γ	I	1			A CONTRACTOR		1	1	1	-	-
Ribes x rubrum	-	-	-	1		_	-				1	1	F		1				1	1	+	-	-
Robinia pseudo-	cacia		1	1	1						T	T	T	T	1				1	1	1		L
The production	-		1	7	-	7	1		E CONTRACTOR		1	1	T	1	1						1		
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