

Appendix B7

Site Investigation Re-visits Requested by MNR



SAN Amphiban60156032 GSH AmphibAndELC

Surveyor(s):

Date:

Date:

UTMZ:

UTMZ: Map #: 72 1_65H2 590/1587/ Polygon: 2018/3065 Time UTMN: start: finish:

Polygon Description

□Shrub □Treed	Cover	□Cultural □	Matural	History	Bedrock	Surficial Dep.	☐Shallow Water	□Open Water	Site	□Aquatic	□Wetland	Terrestrial	System
							□Carb. Bedrk	☐Basic Bedrk	☐Acidic Bedrk	■Parent Min.	Mineral Soil │	Organic	Substrate
Sand Dune	Rockland	Aivar	□Crevice/Cave	□Talus	Cliff	Roll. Upland	☑ Tableland	□Valley Slope	□ Terrace	□ Bottomland	Riverine	Lacustrine	Topographic Feature
			☐Mixed	☐Coniferous	MDeciduous 2	Bryophyte	Lichen	Forb	□ Graminoid	☐Floating-LVD.	 Submerged	Plankton	Plant Form
Woodland WForest Plantation	Thicket	Prairie	■Meadow	Barren	LBog	Fen	□ Swamp	□Marsh	Stream	River	Pond	Lake	Community

Stand Description

HT Codes: 7 << CVR Codes: 0 = nc	0	Ţ	Z.Ş	_}	
	V				. 7
).2m		J۷-	Ù	\mathcal{A}	CVR
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: 0 = none 10% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%	しっこのかと アン・マン・マン・マン・マン・マン・マン・マン・マン・マン・マン・マン・マン・マン	Rub idae > Khacath > Ribtris	Til Amer>Ulmaner	Fra Pana	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)

BA: Stand Composition: Size Class Analysis:
Standing Snags:
Deadfall / Logs: 3 3 3 10-24 10-24 10-24 25-50 25-50 25-50

>50

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

Old Growth

Com. Age:	Pioneer Young Mid-Age	Mature Old Growt
	1	
Ecosite:	Ecosite: First-MoistLowland Deciduous Fore st Ecosial Code: Food	Code: 15007
Vegetation		Code:
Inclusion:	Inclusion: Trops Mineral Meader) Marsh Type	Code: MAM2-10
Complex:		Code:

Community Profile Diagram/Comments

Not				
otes:				
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				!
				!
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				; ;
				:
			ļ	

Tree Tally by Species

Prism Factor 2

				100 miles	the contains a section in	
Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Carca						
Ulm Amor	o e		, ,	, ,		
Til Board	K			*		
dead			v	4		
Fraden	• •		s 4	4		
05+ U/19			n ar ty	•		
Pro sero			s '4			
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

			Soi	l Hori	zon D	escri	ption		,			Эер	th to	D				Sit	e M	etri	cs		
Drai	Mois			4		ω		2			Bedrock	Carb	Wate	Gley	Mottles		Slop	е		ı	JTM		þ
Drainage	Moisture Regime	% Surface Stone/Rock	Texture	Depth from zero	Texture	Depth from zero	Texture	Depth from zero	Texture	Depth from zero	ock	Carbonates	Water Table		les	Slope Length	Percent	Aspect	Position	Northing	Easting	Zone	Pit/Auger#
45 CFH	+	0		% Ç F	FSC grave	61cm 15	f5ic	56cm 2°CF	516	27cm 85F	CC		ON	ാറ	N6	7/0	-2	7 h		4797798	よってなって	101	1
No Water		0		% CF		% CF	7.53	U0↑ %CF	5:6	22 %cf	\			/			0 +6 2	Variably flat		4797656	472629	701	3
No worker	•	0		% CF		% CF	FSIC	37 8°CF	5:6	15 %CF		/			-		0-2			4797472	472659	101	H
				% CF		% CF		% CF		% CF	below)	(indicate	Texture			Drainage				Regime	Moisture		Summary

7

	Map #: 721_65H2590 Surveyor(s):	590/7589/ Date:	Polygon:	start:	Tre
Classification	UTMZ:	UTMZ:	UTMN:	•	
Polygon Des	scription	,			
System	Substrate	Topographic Feature	Plant Form	Community	$\frac{-}{\Box}$
a	Organic	Lacustrine	Plankton	Lake	$\frac{-}{\top}$
□Aquatic	□Parent Min.	☐Bottomland	☐Floating-LVD.	River	Total
	Acidic Bedrk	□Terrace	Graminoid	Stream	Basal
Shallow Water	☐Carb. Bedrk	☐Valley Slope ☐Tableland	Lichen	□ Swamp	Dead
Surficial Dep.	!	Roll. Upland	Bryophyte	Fen -	Soil
History		□Talus	☐Coniferous	□Bog □Barren	
Natural		Crevice/Cave	☐Mixed	□Meadow	
□Cultural		Alvar		☐ Prairie	cs
Open		Beach / Bar		Savannah	Vletr
☐Treed		Bluff		Forest	ite
				⊔ Plantation	
j		Species in Order of Decreasing Dominance (up to 4 sp)	asing Dominance	(up to 4 sp)	
- WZ	Hice s	** Much Greater Than > Greater Than = About Equal To Second Cord > 0 StVita > Fra amed Second Second > 0 StVita Cord > Fra amed > 2 for 6 % or	State Than About	weeding to)	epth to
4 0 2	Geralep:	Texted Japa	macu >1/	a Pulse	D
HT Codes: 7 <0.2m CVR Codes: 0 = none	6 > 0.2-0.5m 5 > 0.5-1 1 0% - 10% 2 10 - 25%	m 4 >1-2m 3 25 - 60%	3 >2-6m 2 >6-25m 4 > 60%	1 >25m	
Stand Composition:	n: Size Class Analysis Standing Snags	nalysis: /1 <10 Snags: /2 <10	10-24	25-50 K >50 25-50 N >50	,
Abundance Codes:	N=None R=Rare O	Rare 0 = Occasional	> [tion
Com. Age:	Pioneer Yo	Young Mid-Age	ge Mature	Old Growth	scrip
Ecosite Fresh	in it is the second of the sec	Stangle 12 seriginal	CORY END HOODE	F0126	on De
	duous Fore	Maple-	rdwoed	ठू	Horizo
inclusion // // complexa	-p mapie Dec;	duais swamp) / _y ∂€ Code:	5003-3	Soil
Community	Profile Dia	gram/Comm	ents		
Notes:					

Basai Area (BA)	Total				Species	Tree Tally by Species
	٠				Tally 1	cies
					Tally 2	
					Tally 3	
					Tally 1 Tally 2 Tally 3 Tally 4 Total Rol. Avg	В
					Total	Prism Factor
	100				Rel. Avg	2

Is Ontario and ELC Soils Description

			Soi	il Hori	zon C)escri	ption		,		ı	Оер	th to	o	,			Sit	e M	etri	cs		
Drai	Mois			4		ω		2		_	Bedrock	Cart	Wat	Gley	Mottles	,	Slop	ре		ι	JTN	I	-
Drainage	Moisture Regime	% Surface Stone/Rock	Texture	Depth from zero	ock	Carbonates	Water Table		les	Slope Length	Percent	Aspect	Position	Northing	Easting	Zone	Pit/Auger#						
							Sic	52m	0 ±	8cm					90~	()	2664	472633	177	22(54
				% CF		% CF		% CF		% CF					,	,				128	33		(SWB3-3)
				% CF		% CF		% CF		% CF										•			
				% CF		% CF		% CF		% CF													
											below)	(indicate	Effective Texture	1		Drainage				Regime	Moistare		Summary
				% CF		% CF		% CF		% CF	W)	cate	ille Stive	:		nage				ime			mary

					2012									_		
Trees & Shrubs	1	2	3	4 5		1	2	3	4	5	Graminoids	1	2	3	4	5
Conifers	L	Ш	Н	4	Deciduous	1		L	Ш		Grasses	H	_	_	_	_
Balsam Fir (Abies balsamea) Common Juniper (Juniperus communis)	-		H	+	White Oak (Quercus alba) Bur Oak (Quercus macrocarpa)	\vdash	K		H	-	Giant Redtop (Agrostis gigantea) Redtop (Agrostis stolonifera)	H	-	\dashv	\dashv	
Eastern Red Cedar (Juniperus virginiana)	H	-	Н	+	Red Oak (Quercus rubra)	\vdash			Н	Н	Awnless Brome (Bromus inermis)	H	┪		\dashv	-
Tamarack (Larix laricina)					Alder Buckthom (Rhamnus alnifolia)		R				Bromus				\exists	
Norway Spruce (Picea abies)	Ľ		П	\perp	Common Buckthorn (Rhamnus cathartica)	F	``				Blue-joint Grass (Calamagrostis canadensis)	_			_	
White Spruce (Picea glauca)	H		⊢⊦	+	Smooth Sumac (Rhus glabra)	Н			\vdash		Orchard Grass (Dactylis glomerata) Poverty Oat Grass (Danthonia spicata)	┝┤		-	+	
Black Spruce (Picea mariana) Jack Pine (Pinus banksiana)			\vdash	+	Staghorn Sumac (Rhus hirta) Wild Black Currant (Ribes americanum)	Н	Ŕ				Quack Grass (Elymus repens)	┝╢	-	-	+	-
Red Pine (Pinus resinosa)	T		H	T	Prickly Gooseberry (Ribes cynosbati)	П	17	-			Virginia Wild Rye (Elymus virginicus)	Н	T	7	\top	_
Eastern White Pine (Pinus strobus)				T	Swamp Black Currant (Ribes lacustre)						Elymus		\Box		丁	_
Scotch Pine (Pinus sylvestris)	L	_	\sqcup	\dashv	Red Currant (Ribes rubrum)	-					Foul Manage Cropp (Chronic stricts)	R	4	\mathbf{k}	\dashv	_
Canada Yew (Taxus canadensis) Eastern White Cedar (Thuja occidentalis)	┝		\vdash	+	Ribes Tr. Ste Black Locust (Robinia pseudo-acacia)	F			H		Fowl Manna Grass (Glyceria striata) Glyceria		-	D	+	-
Eastern Hemlock (Tsuga canadensis)	┢		H	\top	Prickly Rose (Rosa acicularis)						Rice Cut Grass (Leersia oryzoides)	H	-1	\dashv	+	-
					Smooth Rose (Rosa blanda)						Tall Fescue (Lolium arundinaceum)				\Box	
	▙	Ш	\sqcup	┵	Multiflora Rose (Rosa multiflora)	\vdash	Ш	Ш	Ц		Muhlenbergia	H	_	_	\dashv	_
Deciduous Manitoba Maple (Acer negundo)	⊢	H	\vdash	+	Rosa Com. Blackberry (Rubus allegheniensis)	H			H	-	Witch-grass (Panicum capillare) Panicum	\vdash	\dashv	\dashv	\dashv	
Black Maple (Acer nigrum)	H	Н	\vdash	+	Wild Red Raspberry (Rubus idaeus)	D	Ĭ		Н		Reed Canary Grass (Phalaris arundinacea)	H	1	1	-†	_
Norway Maple (Acer platanoides)					Black Raspberry (Rubus occidentalis)						Timothy (Phleum pratense)				1	
Red Maple (Acer rubrum)	L	R	Щ	_	Purple-fl. Raspberry (Rubus odoratus)	H			Щ		Common Reed (Phragmites australis)	Н	_	_	\dashv	_
Silver Maple (Acer saccharinum)	L	Н	\vdash	+	Dwarf Raspberry (Rubus pubescens)	H	_		Н		Canada Blue Grass (Poa compressa) Fowl Meadow Grass (Poa palustris)	\dashv	-	-	\dashv	_
Freeman's Maple (Acer X freemanii) Sugar Maple (Acer saccharum)	\vdash		\vdash	+	Rubus Peach-leaved Willow (Salix amygdaloides)	╁	Н	Н	Н	\dashv	Kentucky Bluegrass (Poa palustris)	\vdash †	-	\dashv	\dashv	-
Mountain Maple (Acer spicatum)	Н	Н	\vdash	+	Bebb's Willow (Salix bebbiana)	╽		Н	H		Yellow Foxtail (Setaria pumila)	H	_	_	_	_
Speckled Alder (Alnus incana)					Pussy Willow (Salix discolor)	П					Green Foxtail (Setaria viridis)			I	Ī	
Downy Serviceberry (Amelanchier arborea)	Ľ	П	ot		Missouri Willow (Salix eriocephala)	\Box			Ц	_]		Ш	_[1	4	_
Serviceberry (Amelanchier sanguinea)	-	Н	$\vdash +$	+	Sandbar Willow (Salix exigua) Shining Willow (Salix lucida)	┯	\vdash	\vdash	$\vdash \mid$	-		\vdash	\dashv	\dashv	+	_
Yellow Birch (Betula alleghaniensis) White Birch (Betula papyrifera)	-	Н	\vdash	- -	Black Willow (Salix nigra)	╁	\vdash	Н	\vdash	-		\dashv	-	\dashv	+	-
European Birch (Betula pendula)		Н	H	+	Slender Willow (Salix petiolaris)			П				\dashv	1	1	\top	_
Blue Beech (Carpinus caroliniana)	_	B			Salix										\bot	_
Bitternut hickory (Carya cordiformis	IK.	۲	\sqcup	_	Hybrid Crack Willow (Salix X rubens)	\sqcup		Ш		_		$\vdash \vdash$	_	_[4	
Shagbark Hickory (Carya ovata)	-		\dashv	+	Black-berried Elder (Sambucus nigra) Red-berried Elder (Sambucus racemosa)	\vdash	-	\vdash	\vdash			\dashv	┥	\dashv	+	_
Climbing Bittersweet (Celastrus scandens) Common Hackberry (Celtis occidentalis)	-	\vdash	+	+	Buffaloberry (Shepherdia canadensis)	H		Н	H	-	Sedges	\dashv	1	1	+	-
Buttonbush (Cephalanthus occidentalis)				+	Eur. Mountain Ash (Sorbus aucuparia)	H					Drooping Wood Sedge (Carex arctata)	\dashv	1	寸	十	
Altleaved Dogwood (Cornus alternifolia)		U			Narrow Meadow-sweet (Spiraea alba)	Ш					Golden-fruited Sedge (Carex aurea)				\exists	_
Silky Dogwood (Cornus amomum)		Ш	\perp	\perp	Common Lilac (Syringa vulgaris)	Н					Graceful Sedge (Carex gracillima)	\dashv	-	-	\dashv	
Bunchberry (Cornus canadensis) Gray dogwood (Cornus racemosa)		Н	\vdash	+	Poison-ivy (Toxicodendron rydbergii) Climbing Poison-ivy (Toxicodendron radicans)	 	V	-	\vdash		Inland Sedge (Carex interior) Bladder Sedge (Carex intumescens)	\dashv	\dashv	\dashv	+	_
Round-leaved Dogwood (Cornus rugosa)	\vdash	Н		+	White Elm (Ulmus americana)	IF!	Ò				Lake-bank Sedge (Carex lacustris)	\dashv	+	一	+	-
Red-osier Dogwood (Cornus sericea)					Siberian Elm (Ulmus pumila)	E					Hop Sedge (Carex lupulina)				\perp	
American Hazel (Corylus americana)				_[_	Slippery Elm (Ulmus rubra)	H	_	Ш			Pennsylvania Sedge (Carex pensylvanica)	\perp	4	4	4	_
Beaked Hazel (Corylus cornuta) Cockspur Thorn (Crataegus crus-galli)		Н	+	+	Low Blueberry (Vaccinium angustifolium) Maple-leaf Viburnum (Viburnum acerifolium)	H	-	-	\dashv		Awl-fruited Sedge (Carex stipata) Fox Sedge (Carex vulpinoidea)	\vdash	\dashv	-	+	
English Hawthorn (Crataegus monogyna)	Н			╁	Hobblebush (Viburnum lantanoides)		\dashv				Carex	1	1	1	十	
Large-fruited Thorn (Crataegus punctata)			1		Nannyberry (Viburnum lentago)	П	T				Carex		1	1	\top	_
Crataegus				I	Guelder-Rose (Viburnum opulus)						Carex	\Box			\exists	
Crataegus			\dashv	+	Downy Arrow-wood (Vib. rafinesquianum)	Н	-		_		Carex Carex		-	\dashv	+	_
Bush Honeysuckle (Diervilla lonicera) Russian Olive (Elaeagnus angustifolia)	Н	\vdash	\dashv	+	Riverbank Grape (Vitis riparia) Am. Prickly-ash (Zanthoxylum americanum)	H	-	\vdash	\vdash		Carex	\dashv	+	┪	+	-
Autumn Olive (Elaeagnus umbellata)		H	\dashv	+	Tilaner	\mathcal{D}	7			-	Carex	1	+	7	\top	_
Run. Strawberry-bush (Euonymus obovata)					Fra Virginiance	Ш	V				Carex	\perp	_	_	4	
American Beech (Fagus grandifolia)		Ш	_	\bot	7	H	_		-		Carex	\dashv	-	-	+	_
Glossy Buckthorn (Frangula alnus) White Ash (Fraxinus americana)		υ	\dashv	╁	Ferns & Allies	H	-	\vdash	\dashv		Carex Carex	-	\dashv	\dashv	+	_
Black Ash (Fraxinus nigra)		П	\dashv	+	Lady Fern (Athyrium filix-femina)	1		\neg			Carex	\dashv	+	1	十	-
Green Ash (Fraxinus pennsylvanica)	F	K			Rattlesnake Fern (Botrychium virginianum)	\Box					Cyperus				1	_
Witch-hazel (Hamamelis virginiana)	H	Ц	_	\perp	Bulbet Bladder Fern (Cystopteris bulbifera)	Ш	_	Ц			Redroot Spike-rush (Eleocharis erythropoda)	_	_	_	\perp	_
Winterberry (Ilex verticilata) Butternut (Juglans cinerea)	-	Н	-	\dashv	Spin. Wood Fern (Dryopteris carthusiana) Crested Wood Fern (Dryopteris cristata)	H		Н	H	\rightarrow	Eleocharis Hard-stem Bulrush (Schoenoplectus acutus)	+	-	-	+	+
Black Walnut (Juglans nigra)	Н	В	\dashv	+	Marginal Wood Fern (Dryopteris cristata)	Н	\dashv	\vdash			Three-square Bulrush (Sch. pungens)	+	\dashv	\dashv	+	-
Common Privet (Ligustrum vulgare)					Dryopteris	口					Soft-stem Bulrush (Sch. tabernaemontani)	丁			丁	
Spicebush (Lindera benzoin)	Ш	Ц			Ostrich Fern (Matteuccia struthiopteris)	L¦	۱۹	\sqcup	Ц		Dark-green Bulrush (Scirpus atrovirens)		4	_[\perp	_
Fly Honeysuckle (Lonicera canadensis) Glaucous Honeysuckle (Lonicera dioica)	H	Н	-	+-	Sensitive Fern (Onoclea sensibilis) Cinnamon Fern (Osmunda cinnamomea)	⊢	R	Н	H	Į.	Wool-grass (Scirpus cyperinus)	H			+	_
Morrow's Honeysuckle (Lonicera morrowii)	H	\vdash	\dashv	+	Interrupted Fern (Osmunda claytoniana)	H	-	\vdash	-1	\dashv		+	+	+	+	-
Tartarian Honeysuckle (Lonicera tatarica)		Ц		_1-	Royal Fern (Osmunda regalis)				╛	╛			_	_†	_	-
Common Apple (Malus pumila)			\Box	I	Christmas Fem (Polystichum acrostichoides)	П	\Box		П	囗				1	I	_
White Mulberry (Morus alba)	Н	Ц	\perp	-	Eastern Bracken-fern (Pteridium aquilinum)	\sqcup	_	Ц	\sqcup	4	046	1	-	\downarrow	4	_
Sweet Gale (Myrica gale) Ironwood (Ostrya virginiana)	H	U	-+	+	Marsh Fern (Thelypteris palustris)	╁┤	\dashv	\vdash	\dashv	\dashv	Other Graminoids Broad Bur-reed (Sparganium eurycarpum)	+	-	-	+	-
Thicket-creeper (Parthenocissus inserta)	Н	ŭ	\vdash	+	· / · · ·	H	一	H			Narrow-leaved Cattail (Typha angustifolia)	\dashv	+	+	+	-
Ninebark (Physocarpus opulifolius)				上	Field Horsetail (Equisetum arvense)	口					Broad-leaved Cattail (Typha latifolia)				ightharpoons	_
Balsam Poplar (Populus balsamifera)	L	Ц		_	Scouring-rush (Equisetum hyemale)	\sqcup		Ш	Ц		Broad-leaved Cattail (Typha X glauca)	\dashv	-	4	4	_
Eastern Cottonwood (Populus deltoides) Large-tooth Aspen (Populus grandidentata)		Н	+		Variegated Horsetail (Equisetum variegatum) Equisetum	H	\dashv	Н	\dashv		Articulated Rush (Juncus articulatus) Soft Rush (Juncus effusus)	+	\dashv	\dashv	+	-
Trembling Aspen (Populus tremuloides)		Ŕ	$\vdash +$	+	Ground-cedar(Lycopodium digitatum)	H	\dashv	Н	\dashv		Path Rush (Juncus tenuis)		_	_ †	$^+$	_
Sweet Cherry (Prunus avium)					Shining Clubmoss (Lycopodium lucidulum)	口					Juncus		\exists	╛	\exists	
Pin Cherry (Prunus pensylvanica)	ما	Ц	\Box	┸	Ground-pine (Lycopodium obscurum)	П			Ц		Juncus	\dashv	-	4	+	
Black Cherry (Prunus serotina) Choke Cherry (Prunus virginiana)	R	Н		+		Н	\dashv	Н	Н			+	\dashv	\dashv	+	_
Prunus Prunus Virginiana)	├-	Н	+	+		H		\vdash	\vdash	\dashv			_	_†	+	_
D - Dominant: represented by large numbers; generally										_					_	_
	espr	ead r	epres		by fairly large numbers of individual clumps; usually forming										_	_
U - Uncommon (=Occasional in ELC) : present as wide	spre					iduals	s (m	ost s	peci	es n	nil fall into this catergory)		_			_
U - Uncommon (=Occasional in ELC) : present as wide R - Rare : represented in the polygon by less than about	spre				all clumps	iduals	s (m	ost s	peci	es n	nil fail into this catergory)	1	1	7		_
U-Uncommon (=Occasional in ELC): present as wide R-Rare: represented in the polygon by less than about Map Number: 721_0SH2590	spre				all clumps	_	s (m	ost s	peci		nu faul into this catergory)				-	_
U - Uncommon (=Occasional in ELC) : present as wide R - Rare : represented in the polygon by less than about	spre five				all clumps	4	s (m	ost s	peci	es n	ill fall into this catergory)					

Plant Species List 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)					Shepherd's Purse (Capsella bursa-pastoris)						Kidney-leaf Buttercup (Ranunculus abortivus				
White Snakeroot (Ageratina altissima)			Ш		Cutleaf Toothwort (Cardamine concatenata)	ļ	<u> </u>	Ш			Tall Buttercup (Ranunculus acris)	Щ		L.	$oxed{oxed}$
Com. Ragweed (Ambrosia artemisiifolia)	┖	Ш	Ш		Toothwort (Cardamine diphylla)	↓_	┞	Ш	\perp	_	Hooked Buttercup (Ranunculus recurvatus)	⊢∔			\vdash
Giant Ragweed (Ambrosia trifida)	⊢	Н	H	_	Penn. Bitter-cress (Cardamine pensylvanica)	+	1			_	Ranunculus	H	_	_	\vdash
Field Pussytoes (Antennaria neglecta)	⊢	Н	Н	-	Cardamine Blue Cohosh (Caulophyllum thalictroides)	╁	⊢	\vdash	+		Sheep Sorrel (Rumex acetosella) Curly-leaf Dock (Rumex crispus)	H			\vdash
Artemisia Common Burdock (Arctium minus)	R	\vdash	H	-	Mouse-ear Chickweed (Cerastium fontanum)	+	1	\vdash	\dashv		Bitter Dock (Rumex obtusifolius)	H		\vdash	
Nodding Beggar-ticks (Bidens cernua)	۲-	\vdash	H	+	Turtlehead (Chelone glabra)	t	٢	H	+		Bloodroot (Sanginaria canadense)	H	8	Н	
Devil's Beggar-ticks (Bidens frondosa)	T		П		Spotted Water-hemlock (Cicuta maculata)		Г	П			Black Snakeroot (Sanicula marilandica)		,		
Spotted Knapweed (Centaurea biebersteinii)				Water-hemlock (Cicuta virosa)						Bouncing Bet (Saponaria officinalis)				
Brown Knapweed (Centaurea jacea)				\perp	Enchanter's Nightshade (Circaea lutetiana)	<u> </u>	U	L			Marsh Skullcap (Scutellaria galericulata)	Ш			oxdot
Chicory (Cichorium intybus)	<u> </u>	Ш	\square	\perp	Carolina Spring Beauty (Claytonia caroliniana)	1	┡	L.	_		Mad Dog Skullcap (Scutellaria lateriflora)	_			\vdash
Canada Thistle (Cirsium arvesnse)	┡	Н	\vdash	-	Virginia Spring Beauty (Claytonia virginica)	⊢	├	H	\dashv		White Campion (Silene latifolia)	H	_		\vdash
Bull Thistle (Cirsium vulgare)	├	\vdash	\vdash	+	Virgin's-bower (Clematis virginiana) Field Bindweed (Convolvulus arvensis)	╁	├-	Н	\dashv		Bladder Campion (Silene vulgaris) Hemlock Water-parsnip (Sium suave)	Н	-	\vdash	
Horseweed (Conyza canadensis) Daisy Fleabane (Erigeron annus)	+-	H	\dashv	+	Dog-strangling Vine (Cynanchum rossicum)	┼	╁	H	\dashv		Bitter Nightshade (Solanum dulcamara)	\vdash	R		
Philadelphia Fleabane (Erig. philadelphicus)	-	R	\vdash	+	Wild Carrot (Daucus carota)	t	1		\dashv	_	Black Nightshade (Solanum ptychanthum)	H			
Erigeron	1	1	Н		Deptford Pink (Dianthus armeria)	1	1	Н	\dashv		Grassleaf Stitchwort (Stellaria graminea)	H			
Joe-pye-weed (Eupatorium maculatum)	T	П		\top	Squirrel-corn (Dicentra canadensis)						Common Chickweed (Stellaria media)				
Boneset (Eupatorium perfoliatum)					Dutchman's-breeches (Dicentra cucullaria)	L	oxdot				Early Meadow-rue (Thalictrum dioicum)				
Large-leaved Aster (Eurybia macrophylla)		Ш	Ш		Wild Teasel (Dipsacus fullonum)	ļ	<u> </u>	_			Tall Meadow-rue (Thalictrum pubescens)	_	U		
Flat-top Goldenrod (Euthamia graminifolia)	L	Н	Ш		Wild Cucumber (Echinocystis lobata)	▙	<u> </u>	Ш	_		Field Penny-cress (Thlaspi arvense)	_	_		\perp
Orange Hawkweed (Hieracium aurantiacum)	}	\vdash	Н	+	Viper's Bugloss (<i>Echium vulgare</i>) Northern Willow-herb (<i>Epilobium ciliatum</i>)	⊢	┞	Н	-1		Foamflower (Tiarella cordifolia) Star-flower (Trientalis borealis)	H	-		
Field Hawkweed (Hieracium caespitosum) Hieracium	┢	Н	\vdash	+	Hairy Willow-herb (<i>Epilobium ciliatum</i>)	⊢	╁	H	\dashv		Red Clover (Trifolium pratense)	H	-		+
Elecampane (Inula helenium)	┢┈	H	\vdash	+	Small-fl. Willow-herb (Epilobium parviflorum)	\vdash	╁	Н	\dashv		White Clover (Trifolium repens)	-	-		+
Prickly Lettuce (Lactuca serriola)		1-1	\Box	+	Epilobium		1	-	\dashv		Trifolium	寸			
Lactuca	Г	П	\Box	1	Worm Mustard (Erysimum cheiranthoides)			П	\neg	٦	Stinging Nettle (Urtica dioica)				
Ox-eye Daisy (Leucanthemum vulgare)					Euphorbia						Greater Bladderwort (Utricularia vulgaris)				
Pineapple-weed (Matricaria discoidea)	Ĺ	П	LΙ		Hemp Nettle (Galeopsis tetrahit)	\Box		Ц	\bot		Common Mullein (Verbascum thapsus)	\Box			
Tall White Lettuce (Prenanthes altissima)	L		\Box	+	Wild Madder (Galium mollugo)	\vdash		Ш	_		Blue Vervain (Verbena hastata)	\sqcup	_		_
Black-eyed Susan (Rudbeckia hirta)	\vdash	\sqcup	\sqcup	- -	Marsh Bedstraw (Galium palustre)	\vdash	\vdash	$\vdash \vdash$	+		White Vervain (Verbena urticifolia)	\dashv	_		- -
Tall Goldenrod (Solidago altissima)	⊢	\vdash	\vdash	┈	Sweet-scented Bedstraw (Galium triflorum)	Н	H	\vdash	+		Water Speedwell (Veron. anagallis-aquatica) Common Speedwell (Veronica officinalis)	\dashv	-	\dashv	+
Blue-stem Goldenrod (Solidago caesia) Canada Goldenrod (Solidago canadensis)	┢╌	\vdash	\dashv	+	Galium Spotted Geranium (Geranium maculatum)		¥)	\vdash	\dashv		Veronica	-	-	-	-
Zig-zag Goldenrod (Solidago flexicaulis)	┢	0	\vdash	+	Herb-robert (Geranium robertianum)	Н	K	Н	+	-	Cow Vetch (Vicia cracca)	1	-1		一十
Giant Goldenrod (Solidago gigantea)	┢╌	ľΊ	\Box	+	Yellow Avens (Geum aleppicum)	D		\vdash	\dashv		Vicia	1		_	-
Early Goldenrod (Solidago juncea)	┢	\Box		十	White Avens (Geum canadense)	-	Ü		7	1	Periwinkle (Vinca minor)				
Gray Goldenrod (Solidago nemoralis)	T	П			Urban Avens (Geum urbanum)		_		1		Dog Violet (Viola conspersa)				
Solidago ≤ P.	<u> </u>	U			Dame's Rocket (Hesperis matronalis)		L.				Yellow Violet (Viola pubescens)		_	_	
Field Sow-thistle (Sonchus arvensis)				_ _	Virg. Water-leaf (Hydrophyllum virginianum)				_	_	Com. Blue Violet (Viola sororia)	_	اص	_	_
Sonchus	_	Ш		_ _	Com. St. John's-wort (Hypericum perforatum)	Ш	Ш	Ш	\dashv	4	Viola S.K.	0	К	_	
Heart-leaf Aster (Symph. cordifolium)	ļ	H	-	+	Spotted Jewelweed (Impatiens capensis)	H	 		+	-	Pil Punil	R	-	-	+
Heath Aster (Symphyotrichum ericoides)	⊢	Н	-		Wood Nettle (Laportea canadensis)	H		\vdash	+	-		\dashv	┥	-	+
Tall White Aster (Symph. lanceolatum) Calico Aster (Symphyotrichum lateriflorum)	77	$\vdash \vdash$	F		Motherwort (Leonurus cardiaca) Field Peppergrass (Lepidium campestre)	H		\vdash	\dashv	+		+	1	-	+
New England Aster (Symph. novae-angliae)	1	H		+	Eur, Gromwell (Lithospermum officinale)	H	-		\dashv	1		\dashv	┪		-
Purple-stem Aster (Symph. puniceus)			\Box	1	Butter & Eggs (Linaria vulgaris)				\top	7			7		_
Common Tansy (Tanacetum vulgare)	┢	R			Great Lobelia (Lobelia siphilitica)			П	T	1					
Common Dandelion (Taraxacum officinale)					Lobelia				I	\bot	Monocot Herbs		_		_
Com. Goatsbeard (Tragopogon pratensis)	L	Ш			Cut-leaf Bugleweed (Lycopus americanus)	Ш	Ш	Ш	\perp	\rightarrow	Water-plantain (Alisma plantago-aquatica)	_	٦	_	
Coltsfoot (Tussilago farfara)	L-	_	\dashv		Northern Bugleweed (Lycopus uniflorus)	Ц	Ш	\sqcup	-		Wild Leek (Allium tricoccum)	Ц,	6	_	_ <u> </u> _
	⊢		\sqcup	-	Fringed Loosestrife (Lysimachia ciliata)	-	_	\vdash	+		Jack-in-the-pulpit (Arisaema triphyllum)	-	ч	_	
Symphy sp.	⊢	V	\dashv	+	Moneywort (Lysimachia nummularia) Lysimachia	H	Н	\vdash	+		Asparagus (<i>Asparagus officinalis)</i> Wild Calla (<i>Calla palustri</i> s)	-	┥	-	-
7 3	┢	H	\dashv	+	Purple Loosestrife (Lythrum salicaria)	H		\vdash	+		Bluebead-lily (Clintonia borealis)	-1	-	-	
	┢┈	H	-	+	Black Medick (Medicago lupulina)	П		П	\dashv		Garden Lily-of-valley (Convallaria majalis)		╗		\top
	 			\top	Alfalfa (Medicago sativa)				Ť	7	Yel. Lady's Slipper (Cypripedium parviflora)				
					White Sweet-clover (Melilotus alba)						Canada Waterweed (Elodea canadensis)				
					Yellow Sweet-clover (Melilotus officinalis)				\perp			V	R		_
	┖	Ш			Wild Mint (Mentha arvensis)	L	L.		4		Yellow Trout Lily (Erythronium americanum)	_	_	_	
Other Dicot Herbs	L	6	-	-	Wild Bergamot (Monarda fistulosa)	\vdash	-	\sqcup	-		Blue-flag Iris (Iris versicolor)	-	_ļ	_	
White Baneberry (Actaes pachypoda)	\vdash	K		-	Small Forget-me-not (Myosotis laxa)	\vdash	Н	$\vdash \vdash$	\dashv		Orange Day Lily (Hemerocallus fulva) Lesser Duckweed (Lemna minor)	\dashv	-	-	
Red Baneberry (Actaea rubra) Tall Agrimony (Agrimonia gryposepala)	tr	┥	-	+	Forget-me-not (Myosotis scorpioides) Water-cress (Nasturtium officinale)	H	Н	$\vdash \vdash$	+		Starry Duckweed (<i>Lemna minor</i>)	\dashv	ij	\neg	\dashv
Garlic Mustard (Alliaria petiolata)	ŭ	R	\dashv	+	Com. Evening-primrose (<i>Oenothera biennis</i>)	Н	Н	\vdash	\dashv	-+	Wild Lily-of-valley (Maianthemum canadense)	-		\neg
Green Amaranth (Amaranthus retroflexus)	ľ			1	Sweet-cicely (Osmorhiza berterii)	\Box					False Solom Seal (Maianthemum racemosum		U		
Hog-peanut (Amphicarpa bracteata)		П			Yellow Wood-sorrel (Oxalis stricta)						Star False Solomon (Maianthemum stellatum				
Pearly Everlasting (Anaphalis margaritacea)				\perp	Wild Parsnip (Pastinaca sativa)				I	\rightarrow	True Solomon Seal (Polygonatum pubescens) [_]		
Canada Anemone (Anemone canadensis)	F	Ш	Ц	\perp	English Plantain (<i>Plantago lanceolata</i>)		\square	Ш	[_[Pickerel-weed (Pontederia cordata)	\sqcup	_	_	_
Ivy Hepatica (Anemone acutiloba)	L	\sqcup	\sqcup	1	Common Plantain (Plantago major)	Н	Ш	Ш	\perp	4	Curly-leaf Pondweed (Potamogeton crispus)	\dashv	_	4	_
Thimbleweed (Anemone virginiana)	\vdash	\sqcup	Н	+	Rugel's Plantain (Plantago rugelii)	├ ─┤	\vdash	\mapsto	+		Sago Pondweed (Potamogeton pectinatus)	\dashv	-	-	$-\vdash$
Purple Angelica (Angelica atropurpurea)	\vdash	\vdash	H	-	May-apple (Podophyllum peltatum)	H	U	$\vdash \vdash$	+		Potamogeton Potamogeton	\dashv	-	-	+
Indian Hemp (Apocynum cannabinum) Wild Sarsaparilla (Aralia nudicaulis)	\vdash	⊢Ĭ	\vdash	+	Pale Smartweed (Polygonum lapathifolium) Lady's-thumb (Polygonum persicaria)	\vdash	V	$\vdash \vdash$	-+		Potamogeton Broad-leaved Arrowhead (Sagittaria latifolia)	\dashv	-	\dashv	+
Spikenard (Aralia racemosa)	\vdash	H	\vdash	+	Virginia Knotweed (<i>Polygonum virginianum</i>)	t	Н	\vdash	+		Blue-eyed-grass (Sisyrinchium montanum)	\dashv	-	-	_
Wild Ginger (Asarum canadense)	 	\sqcap	$\vdash \dashv$	\top	Polygonum	П	П	$\vdash \vdash$	\dashv		Herb. Carrion Flower (Smilax herbacea)	\dashv	1		\dashv
Swamp Milkweed (Asclepias incarnata)	T	디			Polygonum	П	Г		_ †		Bristly Greenbrier (Smilax hispida)				
Common Milkweed (Asclepias syriaca)		K			Rough Cinquefoil (Potentilla norvegica)			\Box	\Box		Nodding Ladies' Tresses (Spiranthes cernua)	\Box			
Yellow Rocket (Barbarea vulgaris)		П	П	\bot	Rough-fruited Cinquefoil (Potentilla recta)	\Box	\Box	П	Ī		Rose Twisted-stalk (Streptopus lanceolatus)	Ц		_	_ _
False Nettle (Boehmeria cylindrica)	L	\sqcup	Ц	\perp	Common Cinquefoil (Potentilla simplex)	\sqcup		Ш	\dashv		Skunk-cabbage (Symplocarpus foetidus)	_	_	_	+
Black Mustard (Brassica nigra)	<u> </u>	\sqcup	igspace	_ _	Potentilla	\vdash	H	Н	\dashv		Purple Trillium (Trillium erectum)	\dashv	\dashv	-	+
Marsh-marigold (Caltha palustris)	10-	닌	\vdash	+	Heal-all (Prunella vulgaris)	\vdash	Н	\vdash i	+		White Trillium (<i>Trillium grandiflorum</i>) Large-flowered Bellwort (<i>Uvularia grandiflora</i>)	\dashv	-	-	+
Creeping Bellflower (Campanula rapunculoid	ies T	-	\vdash	+	Shinleaf (Pyrola elliptica)	F	Н	\vdash	+	\dashv	Trillium SP.		U	-1	+
D - Dominant: represented by large numbers; generall,	y fon	mina	>109	6 groui		11	_				13:100		- :		1
F - Fairly common (=Abundant in ELC): generally wid	espr	ead r	epre	sented	y fairly large numbers of individual clumps; usually forming	>109	% gro	ound	cove	r				_	
U - Uncommon (=Occasional in ELC) : present as wide	spre	ead s	catte	red ind	viduals or represented by one or more clumps of many indivi	idual	ls (m	ost s	pecie	s w	ill fall into this catergory)				
R - Rare: represented in the polygon by less than about		indiv	idual	s or sm		_	,_							_	
Map Number:	1	F	වැ	77		<u> </u>	1]		
Date:	2	F	\overline{C}	<u> </u>	5	5	Ĺ								[
	t	†	~.	*.¥	-10(inclusion)	T	T					i			

C II	Map #: 1/2 2 65# 2	1652 115	Polygon:		Free		Tally by
Community	Surveyor(s):	Date:	Time start:	rt:		1.0	
Description and Classification	UTMZ:	JTMZ:	5	11.	4	2	Y
Polygon De	escription				3		
System	Substrate	Topographic Feature	Plant Form	Community			
☐Terrestrial ☑Wetland ☐Aquatic Site	☐Organic Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk	☐Lacustrine☐Riverine☐Bottomland☐Terrace☐Valley Slope	☐ Plankton☐ Submerged☐ Submerged☐ Floating-LVD.☐ Graminoid☐ Forb	□Lake □Pond □River □Stream □Marsh	Total Basal Dead	al Are	Total Basal Area (BA) Dead
Shallow Water Surficial Dep.	☐Carb. Bedrk	Tableland □Roll. Upland	Lichen DBrvophyte	Swamp	Soil	ils	Ontario
☐Bedrock History		Cliff	MDeciduous □Coniferous	□ Bog		_	Pit/Auger#
Matural □Cultural		Crevice/Cave	Mixed	☐ Meadow ☐ Prairie	s	MT	Zone Easting
Cover		Rockland		Thicket	tric	.Ո	Northing
□ Open		UBeach / Bar USand Dune		USavannah UWoodland	e Me		Position
Treed		□ Bluff		☐Forest☐Plantation	4!S	əd	Aspect
Stand Dast	oscrintion					୧୯	Percent
י נ	**	Spaciae in Ordanof Persaseing Pominance (IIn to 4 en	acing Dominance				Slope Length
Layer HT CVR		(>> Much Greater Than > Greater Than = About Found To)	reater Than: = 4ho	if Fauel Tol		Mottles	es
1 - 7	Hornee >	> Fra Bor > 80	> 8000 H	and the second s	0	Gley	
2					3 43	Wate	Water Table
3 3 3		1.	Khacath		dəc	Carb	Carbonates
	Q.				1	Bedrock	ock
HT Codes: 7 <0.2m CVR Codes: 0 = none	6 >0.2-0.5m 5 >0.5-1 1 0% - 10% 2 10 - 25%	m 4>1-2m 3 25 - 60% 4>	3 >2-6m 2 >6-25m 60%	1 >25m		~	Depth fron zero
Stand Composition	Stand Composition: Size Class Analysis:	a	0	0			Texture
	Standing Snags: Deadfall / Eogs:	N 40 50 500	0 0 C	25-50		2	Depth from
Abundance Codes:	N = None R = Rare	are 0 = Occasional	A = Abundant		uoit		Texture
Com. Age:	Pioneer Yc	Young Mid-Age	ge Mature	Old Growth	escrip	3	Depth fron zero
200		5000m2		SWD3	₫ uoz		Texture
200,000,000	بر ۳۲	De la laction de laction de laction de laction de la laction de laction de laction de la laction de laction de laction de la laction de la laction de la	7 6	SWD	ihoH I	4	Depth fron zero
Complex:	05 4- moist 0 (3	Field Meader	1/16	apos (Company)	ioS		Texture
Community	Profile Dia	Diagram/Comments	ents				% Surface Stone/Roc
						Mois	Moisture Regime
						Drainage	lage
Notes:					<u> </u>		

tor 2	3			100			Summary		Moieturo	Regime	•			Drainage			Effective Toxture	indicate	below)	% CF		% CF	-	% CF		% CF		:
Prism Factor			_																	% CF		% CF		% CF		% CF	<u> </u>	
Tally 3.	į					Description														% CF		% CF		% CF		% CF		
Tally 2			2			Soils De				21										% CF		% CF		% CF		% CF		<u> </u>
Species Tally 1	17.					and ELC	_	161	477689	77977	\	١	\	\	100	!	\	\		36cm %	OH	46cm %	Sicl	%		%	-	
Tally by S Species	Q					Ontario	Pit/Auger #	Zone	Easting	Northing	Position	Aspect	Percent	Slope	- Lengui		Water Table	Carbonates	ock	Depth from zero	Texture	Depth from zero	Texture	Depth from zero	Texture	Depth from	Texture	% Surface
Tree T	Ace Fre	6		Total	Basal Area (BA)	Soils			es MTU	etri	M ə		doje	3	Mottles		wate Wate		Bedrock	-		2	noite	escrip w	on Do	sinoH 4	lios	

Plant Species List 2012

					2012			_							
Trees & Shrubs	1	2	3	4 5	Tree & Shrubs	1	2	3	4	5	Graminoids	1	2	3	4
Conifers	Ц	_Ĭ	4	\bot	Deciduous	\vdash	\sqcup	Ш	<u> </u>	<u></u>	Grasses	\vdash		Щ	4
Balsam Fir (Abies balsamea) Common Juniper (Juniperus communis)	Н	\dashv	-	+	White Oak (Quercus alba) Bur Oak (Quercus macrocarpa)	╁		Н	-		Giant Redtop (Agrostis gigantea) Redtop (Agrostis stolonifera)	\vdash		\vdash	\dashv
Eastern Red Cedar (Juniperus virginiana)			1	\dagger	Red Oak (Quercus rubra)						Awnless Brome (Bromus inermis)				1
Tamarack (Larix laricina)	Ц		\Box	\perp	Alder Buckthorn (Rhamnus alnifolia)			Ш			Bromus			П	_
Norway Spruce (Picea abies)		_[[-	Common Buckthorn (Rhamnus cathartica)	F	Н	Н	Н		Blue-joint Grass (Calamagrostis canadensis)	1		Н	+
White Spruce (Picea glauca) Black Spruce (Picea mariana)	H	-i	-	+	Smooth Sumac (Rhus glabra) Staghorn Sumac (Rhus hirta)	\vdash	H	H	Н	Н	Orchard Grass (Dactylis glomerata) Poverty Oat Grass (Danthonia spicata)	H	Н	\vdash	+
Jack Spruce (<i>Picea mariana)</i> Jack Pine (<i>Pinus banksiana</i>)	Н	Ì	\dashv	+	Wild Black Currant (Ribes americanum)	Ħ					Quack Grass (Elymus repens)				_
Red Pine (Pinus resinosa)					Prickly Gooseberry (Ribes cynosbati)						Virginia Wild Rye (Elymus virginicus)			口	
Eastern White Pine (Pinus strobus)	П	_]		\perp	Swamp Black Currant (Ribes lacustre)	<u> </u>	\square	\sqcup			Elymus	\vdash		Ц	-
Scotch Pine (Pinus sylvestris) Canada Yew (Taxus canadensis)	$\vdash \mid$	- i	\dashv	-	Red Currant (Ribes rubrum) Ribes	\vdash	H	Н		Н	Fowl Manna Grass (Glyceria striata)	H		\vdash	+
Eastern White Cedar (Thuja occidentalis)	H		十	+	Black Locust (Robinia pseudo-acacia)	\vdash	Н	H			Glyceria	Н			\dashv
Eastern Hemlock (Tsuga canadensis)					Prickly Rose (Rosa acicularis)						Rice Cut Grass (Leersia oryzoides)				
					Smooth Rose (Rosa blanda)	ļ	Ш				Tall Fescue (Lolium arundinaceum)	Ц		_	4
D:-t	H	-	-	+	Multiflora Rose (Rosa multiflora) Rosa	-	Н	Н	Н		Muhlenbergia Witch-grass (Panicum capillare)	\vdash		\dashv	+
Deciduous Manitoba Maple (Acer negundo)		\dashv	1	+	Com. Blackberry (Rubus allegheniensis)		H	\vdash		Н	Panicum	Н			+
Black Maple (Acer nigrum)			1		Wild Red Raspberry (Rubus idaeus)						Reed Canary Grass (Phalaris arundinacea)				
Norway Maple (Acer platanoides)					Black Raspberry (Rubus occidentalis)						Timothy (Phleum pratense)				
Red Maple (Acer rubrum)	_	4	-	+	Purple-fl. Raspberry (Rubus odoratus)		Н		-		Common Reed (Phragmites australis)	Н	\dashv	\dashv	\dashv
Silver Maple (Acer saccharinum) Freeman's Maple (Acer X freemanii)	7	-	\dashv	+	Dwarf Raspberry (Rubus pubescens) Rubus	H	Н	H	Н		Canada Blue Grass (Poa compressa) Fowl Meadow Grass (Poa palustris)	\vdash	-	-	+
Sugar Maple (Acer saccharum)	14		1	\top	Peach-leaved Willow (Salix amygdaloides)	П	Н			Н	Kentucky Bluegrass (Poa pratensis)	П			\top
Mountain Maple (Acer spicatum)			丁		Bebb's Willow (Salix bebbiana)						Yellow Foxtail (Setaria pumila)	П		I	I
Speckled Alder (Alnus incana)	Ц	_[4	\perp	Pussy Willow (Salix discolor)		Ш	\sqcup			Green Foxtail (Setaria viridis)	\sqcup		_	-
Downy Serviceberry (Amelanchier arborea) Serviceberry (Amelanchier sanguinea)	\vdash	-	\dashv	-	Missouri Willow (Salíx eriocephala) Sandbar Willow (Salíx exigua)	\vdash	\vdash	Н	\vdash		·	H	-	\dashv	+
Yellow Birch (Betula alleghaniensis)	\vdash	-	+	+	Sandbar Willow (Salix exigua) Shining Willow (Salix lucida)			H	H			\vdash		\dashv	+
White Birch (Betula papyrifera)	H	1	-	十	Black Willow (Salix nigra)							П		T	1
European Birch (Betula pendula)				T	Slender Willow (Salix petiolaris)							П		1	1
Blue Beech (Carpinus caroliniana)	Ш	_	-	-	Salix	H		-				Н	_	-	+
Bitternut hickory (Carya cordiformis Shagbark Hickory (Carya ovata)	$\vdash \downarrow$	\dashv	+	+	Hybrid Crack Willow (Salix X rubens) Black-berried Elder (Sambucus nigra)	\vdash	Н	Н	Н	Н		\vdash		-	+
Climbing Bittersweet (Celastrus scandens)	\dashv	\dashv	+	+	Red-berried Elder (Sambucus racemosa)			H				\Box	┪	1	+
Common Hackberry (Celtis occidentalis)		⇉			Buffaloberry (Shepherdia canadensis)						Sedges				\top
Buttonbush (Cephalanthus occidentalis)	Ц	_]	4	_	Eur. Mountain Ash (Sorbus aucuparia)	Ц	Ц	Ц	Ц		Drooping Wood Sedge (Carex arctata)	$\vdash \mid$		-	
Altleaved Dogwood (Cornus alternifolia)	\dashv	\dashv	\dashv	+	Narrow Meadow-sweet (Spiraea alba) Common Lilac (Syringa vulgaris)	H	Н	\vdash	\dashv		Golden-fruited Sedge (Carex aurea) Graceful Sedge (Carex gracillima)	H	-	\dashv	+
Silky Dogwood (Cornus amomum) Bunchberry (Cornus canadensis)		-	+	+	Poison-ivy (Toxicodendron rydbergii)	Н	Н	H	-1	\dashv	Inland Sedge (Carex graciiinna)	H	-	+	+
Gray dogwood (Cornus racemosa)	D				Climbing Poison-ivy (Toxicodendron radicans)	F					Bladder Sedge (Carex intumescens)	\Box			1
Round-leaved Dogwood (Cornus rugosa)	_]	Ţ	Ţ	T	White Elm (Ulmus americana)	Ц		Ц			Lake-bank Sedge (Carex lacustris)	Ц	_	4	_
Red-osier Dogwood (Cornus sericea)	-1	\dashv	\dashv	+	Siberian Elm (Ulmus pumila)	Н	\vdash	-			Hop Sedge (Carex lupulina) Pennsylvania Sedge (Carex pensylvanica)	$\vdash \downarrow$		\dashv	+
American Hazel (Corylus americana) Beaked Hazel (Corylus cornuta)	-	-	+	+	Slippery Elm (Ulmus rubra) Low Blueberry (Vaccinium angustifolium)	H	H	\vdash	\vdash		Awl-fruited Sedge (Carex stipata)	H	-	+	+
Cockspur Thorn (Crataegus crus-galli)		_	_		Maple-leaf Viburnum (Viburnum acerifolium)						Fox Sedge (Carex vulpinoidea)			╛	İ
English Hawthorn (Crataegus monogyna)			1	\perp	Hobblebush (Viburnum lantanoides)	Ц	Ц	Ц	Ц	_	Carex SQ	D	1	J	Ţ
Large-fruited Thorn (Crataegus punctata)	_	4	\dashv	+	Nannyberry (Viburnum lentago)	H	Н	Н			Carex Carex	\vdash	_	\dashv	+
Crataegus Crataegus	\dashv			+	Guelder-Rose (Viburnum opulus) Downy Arrow-wood (Vib. rafinesquianum)	H	$\vdash \vdash$	\dashv	\dashv	-	Carex	H	┥	\dashv	+
Bush Honeysuckle (Diervilla lonicera)		_	_ †	_ -	Riverbank Grape (Vitis riparia)						Carex		_		ⅎ
Russian Olive (Elaeagnus angustifolia)			\Box	\perp	Am. Prickly-ash (Zanthoxylum americanum)						Carex	П		7	#
Autumn Olive (Elaeagnus umbellata)	_	-	\dashv	+		H	Н	Н	-	-	Carex	$\vdash \mid$	-	-	+
Run. Strawberry-bush (Euonymus obovata) American Beech (Fagus grandifolia)	H	\dashv	+	+		Н	Н	\vdash	\dashv	\dashv	Carex	\vdash		+	+
Glossy Buckthorn (Frangula alnus)	\dashv	+	\dashv	+		H	H	H	\dashv		Carex	┌┤	\dashv	_	_†
White Ash (Fraxinus americana)			1	I	Ferns & Allies		Ш				Carex			\Box	Ţ
Black Ash (Fraxinus nigra)	إر	_[4	\perp	Lady Fern (Athyrium filix-femina)	Ц	Ц	Ц	Ц	_	Carex	Н		4	+
Green Ash (Fraxinus pennsylvanica) Witch-hazel (Hamamelis virginiana)		-	+	+	Rattlesnake Fern (Botrychium virginianum) Bulbet Bladder Fern (Cystopteris bulbifera)	H	\vdash	\vdash	\dashv		Cyperus Redroot Spike-rush (Eleocharis erythropoda)	Ч	-	\dashv	+
Winterberry (Ilex verticilata)	\dashv	\dashv	+	+	Spin. Wood Fern (Cystopteris buibliera)	H	H	H	\dashv	-	Eleocharis	П		+	+
Butternut (Juglans cinerea)		╛			Crested Wood Fern (Dryopteris cristata)						Hard-stem Bulrush (Schoenoplectus acutus)			1	1
Black Walnut (Juglans nigra)	_]	J	I	T	Marginal Wood Fern (Dryopteris marginalis)	Ц	Ц	Ц	Д		Three-square Bulrush (Sch. pungens)		Į	1	4
Common Privet (Ligustrum vulgare)	H	4	+	+	Dryopteris Ostrich Fern (Matteuccia struthiopteris)	H	Н	\vdash	-	_	Soft-stem Bulrush (Sch. tabernaemontani) Dark-green Bulrush (Scirpus atrovirens)	H	-	+	+
Spicebush (Lindera benzoin) Fly Honeysuckle (Lonicera canadensis)	\vdash	\dashv	+	+	Sensitive Fern (Onoclea sensibilis)	H	Н	\vdash	\dashv	\exists	Wool-grass (Scirpus cyperinus)	H	-	\dashv	+
Glaucous Honeysuckle (Lonicera dioica)		╛	士		Cinnamon Fern (Osmunda cinnamomea)							\square			1
Morrow's Honeysuckle (Lonicera morrowii)		コ	I		Interrupted Fern (Osmunda claytoniana)		口					П		1	Ţ
Tartarian Honeysuckle (Lonicera tatarica)	$\vdash \mid$	4	4	+	Royal Fern (Osmunda regalis)	Н	Н	$\vdash \mid$		Ц				\dashv	+
Common Apple (Malus pumila) White Mulberry (Morus alba)	Н	\dashv	+	+	Christmas Fern (Polystichum acrostichoides) Eastern Bracken-fern (Pteridium aquilinum)	H	Н	\vdash	\dashv	\dashv		\vdash	\dashv	\dashv	+
Sweet Gale (Myrica gale)	\vdash	一	\dashv	+	Marsh Fern (Thelypteris palustris)	П	H	Н	\dashv		Other Graminoids	H		_†	_†
Ironwood (Ostrya virginiana)		╛			, , , , , , , , , , , , , , , , , , , ,						Broad Bur-reed (Sparganium eurycarpum)	П			1
Thicket-creeper (Parthenocissus inserta)	П	J	Ţ	\bot			П				Narrow-leaved Cattail (Typha angustifolia)	\square	_]	Į.	Т
Ninebark (Physocarpus opulifolius) Balsam Poplar (Populus balsamifera)	\vdash	-	+	+	Field Horsetail (Equisetum arvense) Scouring-rush (Equisetum hyemale)	Н	Н	Н	Н		Broad-leaved Cattail (Typha latifolia) Broad-leaved Cattail (Typha X glauca)	\vdash	-	\dashv	+
Eastern Cottonwood (Populus deltoides)	F	-1	+	+	Variegated Horsetail (Equisetum variegatum)		Н	Н	Н		Articulated Rush (Juncus articulatus)	H	-	\dashv	+
Large-tooth Aspen (Populus grandidentata)	H		_†		Equisetum						Soft Rush (Juncus effusus)	H		_	士
Trembling Aspen (Populus tremuloides)		I	T	T	Ground-cedar(Lycopodium digitatum)		П	П			Path Rush (Juncus tenuis)	П	口	7	1
Sweet Cherry (Prunus avium)	Н	_		+	Shining Clubmoss (Lycopodium lucidulum)	-	Н	\sqcup	Н		Juncus	\vdash	_	4	+
Pin Cherry (Prunus pensylvanica) Black Cherry (Prunus serotina)	Н	\dashv	+	+	Ground-pine (Lycopodium obscurum)	H	Н	Н	\vdash	H	Juncus	Н	-	\dashv	+
Choke Cherry (Prunus virginiana)	Н	-	\dashv	+		Н	Н	Н	Н	H		H		-+	+
Prunus															
D - Dominant: represented by large numbers, generally															
					by fairly large numbers of individual clumps; usually forming viduals or represented by one or more clumps of many indivi						vill fall into this catergory)				
R - Rare: represented in the polygon by less than about						-ual	→ (m)	JOI 8	انادم.	V	and and outorgoty)		_	_	
Map Number: 72265H2591	1		T		5WD3-3	4								T	
Date: OC+. 11-2012	2		_		CUMILI	5							_		
Surveyors: Jdn. + Mar Kato G.	3														
	_	_	_			_	_	_					_	_	_

Plant Species List 2012

					2012		_							
Dicot Herbs - Asteraceae	1	2	3	4 5		1	2	3	4 5		_1	2 :	3 4	5
Common Yarrow (Achillea millefolium)	▙	Ш		$\vdash \vdash$	Shepherd's Purse (Capsella bursa-pastoris)	H	Ш	_	\perp	Kidney-leaf Buttercup (Ranunculus abortivus)	\vdash	+	+	₩
White Snakeroot (Ageratina altissima)	H		Н	$\vdash \vdash$	Cutleaf Toothwort (Cardamine concatenata)	H			-	Tall Buttercup (Ranunculus acris)	\vdash	+	╁	╁
Com. Ragweed (Ambrosia artemisiifolia)	<u> </u>	Н	Н	\vdash	Toothwort (Cardamine diphylla) Penn. Bitter-cress (Cardamine pensylvanica)	Н	\vdash	-	+	Hooked Buttercup (Ranunculus recurvatus) Ranunculus	$\vdash +$	+	+-	╁
Giant Ragweed (Ambrosia trifida) Field Pussytoes (Antennaria neglecta)	╌	H	Н	-	Cardamine	1			_	Sheep Sorrel (Rumex acetosella)	\vdash	十	十	t
Artemisia	t				Blue Cohosh (Caulophyllum thalictroides)	П		ı	+	Curly-leaf Dock (Rumex crispus)	\sqcap	\top	\top	Ť
Common Burdock (Arctium minus)	-	D			Mouse-ear Chickweed (Cerastium fontanum)					Bitter Dock (Rumex obtusifolius)				
Nodding Beggar-ticks (Bidens cernua)					Turtlehead (Chelone glabra)					Bloodroot (Sanginaria canadense)	\Box		_	
Devil's Beggar-ticks (Bidens frondosa)		Ш			Spotted Water-hemlock (Cicuta maculata)	Ш		\sqcup		Black Snakeroot (Sanicula marilandica)	$\vdash \vdash$	+	\bot	╄
Spotted Knapweed (Centaurea biebersteinii)	_			_	Water-hemlock (Cicuta virosa)	Н		-	- -	Bouncing Bet (Saponaria officinalis)	\vdash	+	+	⊢
Brown Knapweed (Centaurea jacea)	<u> </u>				Enchanter's Nightshade (Circaea lutetiana)	\vdash		-	+	Marsh Skullcap (Scutellaria galericulata)	-+	+	+	⊢
Chicory (Cichorium intybus) Canada Thistle (Cirsium arvesnse)	_	-	Н	+	Carolina Spring Beauty (Claytonia caroliniana) Virginia Spring Beauty (Claytonia virginica)	1		H	+	Mad Dog Skullcap (Scutellaria lateriflora) White Campion (Silene latifolia)	- -	+	+	⊢
Bull Thistle (Cirsium vulgare)		Н	\vdash		Virginia Spring Beauty (Claytoria virginica)	H	\dashv			Bladder Campion (Silene vulgaris)	-+	+	+	1
Horseweed (Conyza canadensis)	-	Н		+	Field Bindweed (Convolvulus arvensis)	П		-1	+	Hemlock Water-parsnip (Sium suave)		十	+	\vdash
Daisy Fleabane (Erigeron annus)					Dog-strangling Vine (Cynanchum rossicum)					Bitter Nightshade (Solanum dulcamara)		T		
Philadelphia Fleabane (Erig. philadelphicus)					Wild Carrot (Daucus carota)					Black Nightshade (Solanum ptychanthum)		\perp	\perp	\Box
Erigeron					Deptford Pink (Dianthus armeria)	Ш		_		Grassleaf Stitchwort (Stellaria graminea)	\sqcup	4	┸	1
Joe-pye-weed (Eupatorium maculatum)		Ш			Squirrel-corn (Dicentra canadensis)	Н		_		Common Chickweed (Stellaria media)	\vdash	+	∔	祌
Boneset (Eupatorium perfoliatum)	_	Н	_	\vdash	Dutchman's-breeches (Dicentra cucullaria)	Н		-		Early Meadow-rue (Thalictrum dioicum)	\vdash	+	+	⊢
Large-leaved Aster (Eurybia macrophylla)	⊢	Н	\vdash	-	Wild Creamber (Ephinocrafic labets)	\vdash		-	+	Tall Meadow-rue (Thalictrum pubescens) Field Penny-cress (Thlaspi arvense)	\vdash	+	+	\vdash
Flat-top Goldenrod (Euthamia graminifolia) Orange Hawkweed (Hieracium aurantiacum)	Ц.	Н		+	Wild Cucumber (Echinocystis lobata) Viper's Bugloss (Echium vulgare)	Н			-	Foamflower (Tiarella cordifolia)	\vdash	+	+	\vdash
Field Hawkweed (Hieracium caespitosum)		Н		\dashv	Northern Willow-herb (Epilobium ciliatum)	H		一	\dashv	Star-flower (Trientalis borealis)	\vdash	+	十	\vdash
Hieracium	\vdash	H	Н	+	Hairy Willow-herb (Epilobium hirsutum)			7		Red Clover (Trifolium pratense)	\sqcap	+	+	\vdash
Elecampane (Inula helenium)			П	\neg	Small-fl. Willow-herb (Epilobium parviflorum)			_		White Clover (Trifolium repens)		▔	I	П
Prickly Lettuce (Lactuca serriola)					Epilobium			⇉		Trifolium	Д	\perp	I	\Box
Lactuca					Worm Mustard (Erysimum cheiranthoides)	╽				Stinging Nettle (Urtica dioica)	$\perp I$	⊥Ī	上	\sqcup
Ox-eye Daisy (Leucanthemum vulgare)		\Box			Euphorbia	Ш		_	_ _	Greater Bladderwort (Utricularia vulgaris)	\dashv	4	\bot	\sqcup
Pineapple-weed (Matricaria discoidea)		Ш	Ш	-	Hemp Nettle (Galeopsis tetrahit)	\vdash		4		Common Mullein (Verbascum thapsus)	-+	+	+	\vdash
Tall White Lettuce (Prenanthes altissima)	H	H	Н	+	Wild Madder (Galium mollugo)	H	\vdash	-	-	Blue Vervain (<i>Verbena hastata</i>) White Vervain (<i>Verbena urticifolia</i>)	\dashv	+	+-	\vdash
Black-eyed Susan (Rudbeckia hirta)	H	H	\vdash		Marsh Bedstraw (Galium palustre) Sweet-scented Bedstraw (Galium triflorum)	H	H	\dashv	\dashv	Water Speedwell (<i>Veron. anagallis-aquatica</i>)	\dashv	+	+	\vdash
Tall Goldenrod (Solidago altissima) Blue-stem Goldenrod (Solidago caesia)	H	H		-	Galium	一	H	-		Common Speedwell (Veronica officinalis)	\dashv	+	+	\vdash
Canada Goldenrod (Solidago canadensis)				+	Spotted Geranium (Geranium maculatum)	П		寸	t	Veronica		十	\top	П
Zig-zag Goldenrod (Solidago flexicaulis)		П		\top	Herb-robert (Geranium robertianum)	П		7		Cow Vetch (Vicia cracca)		T	1	
Giant Goldenrod (Solidago gigantea)					Yellow Avens (Geum aleppicum)					Vicia		\perp	丄	
Early Goldenrod (Solidago juncea)					White Avens (Geum canadense)	Ц				Periwinkle (Vinca minor)	\vdash	\bot	┷	\sqcup
Gray Goldenrod (Solidago nemoralis)	Ш				Urban Avens (Geum urbanum)	Ш	_	_		Dog Violet (Viola conspersa)	⊢∔	\perp	╄	\sqcup
Solidago SQ.		Ý	_	\dashv	Dame's Rocket (Hespens matronalis)	H				Yellow Violet (Viola pubescens)	⊢∔	+	┿	\vdash
Field Sow-thistle (Sonchus arvensis)	H	Н		-+	Virg. Water-leaf (Hydrophyllum virginianum)	H	-	-		Com. Blue Violet (Viola sororia)	\dashv	+	╁	┼┤
Sonchus Heart loof Astor (Symph, cordifolium)				+	Com. St. John's-wort (Hypericum perforatum) Spotted Jewelweed (Impatiens capensis)	Н	-	\dashv		Viola	\dashv	+	+	\vdash
Heart-leaf Aster (Symph. cordifolium) Heath Aster (Symphyotrichum ericoides)	-	\vdash		+	Wood Nettle (Laportea canadensis)	H	_				\vdash	+	+	Н
Tall White Aster (Symph. lanceolatum)					Motherwort (Leonurus cardiaca)	П	_	7	\top		T	十	1	П
Calico Aster (Symphyotrichum lateriflorum)		F			Field Peppergrass (Lepidium campestre)						\Box	\perp	\perp	
New England Aster (Symph. novae-angliae)					Eur. Gromwell (Lithospermum officinale)	Ц		_			\perp	┵	┸	
Purple-stem Aster (Symph. puniceus)				_	Butter & Eggs (Linaria vulgaris)	Ш	_	_	i_		\dashv	\bot	\perp	\sqcup
Common Tansy (Tanacetum vulgare)	_	H		\perp	Great Lobelia (Lobelia siphilitica)	H		-		Monocot Herbs	┌┼┼	+	+	\vdash
Common Dandelion (Taraxacum officinale)	H	\vdash		+	Lobelia Cut-leaf Bugleweed (Lycopus americanus)	H	-	\dashv	-	Water-plantain (Alisma plantago-aquatica)	\dashv	\dotplus	+	\vdash
Com. Goatsbeard (Tragopogon pratensis) Coltsfoot (Tussilago farfara)				+	Northern Bugleweed (Lycopus uniflorus)	H	-	-	-	Wild Leek (Allium tricoccum)	\vdash	+	+	\vdash
Collstoot (Tassilago Tarrara)	Н	Н	H	<u> </u>	Fringed Loosestrife (Lysimachia ciliata)	Н	一	7	+	Jack-in-the-pulpit (Arisaema triphyllum)	\top	+	+	Ħ
				+	Moneywort (Lysimachia nummularia)	П	_	7	$\neg \vdash$	Asparagus (Asparagus officinalis)	T	\top	+	
					Lysimachia					Wild Calla (Calla palustris)		\perp		Ī
					Purple Loosestrife (Lythrum salicaria)	Ш				Bluebead-lily (<i>Clintonia borealis</i>)	\perp	⊥	┸	
		Ш			Black Medick (Medicago lupulina)	Ц	_	_		Garden Lily-of-valley (Convallaria majalis)	\dashv	∔	\bot	\sqcup
		Щ			Alfalfa (Medicago sativa)	Ш	_	-		Yel. Lady's Slipper (Cypripedium parviflora)	\vdash	+	+	\vdash
	_	Н	Н	+	White Sweet-clover (Melilotus alba)	H		-	\dashv	Canada Waterweed (Elodea canadensis)	\dashv	+	+	\vdash
	\vdash	$\vdash \vdash$	\vdash	+	Yellow Sweet-clover (Melilotus officinalis) Wild Mint (Mentha arvensis)	Н	\dashv	-	+	Helleborine (Epipactis helleborine) Yellow Trout Lily (Erythronium americanum)	+	+	+	H
Other Dicot Herbs	H	-	\dashv	+	Wild Bergamot (Monarda fistulosa)	H	-	ij	\dashv	Blue-flag Iris (Iris versicolor)	+	+	+-	\forall
White Baneberry (Actaea pachypoda)	Н	Н	\vdash	+	Small Forget-me-not (Myosotis laxa)	П	┪	7	\top	Orange Day Lily (Hemerocallus fulva)	\top	+	\top	\sqcap
Red Baneberry (Actaea rubra)					Forget-me-not (Myosotis scorpioides)			J	工	Lesser Duckweed (Lemna minor)		I	\perp	
Tall Agrimony (Agrimonia gryposepala)				\Box	Water-cress (Nasturtium officinale)	\Box				Starry Duckweed (Lemna trisulca)	$\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	┵	\perp	Ш
Garlic Mustard (Alliaria petiolata)	\Box	D			Com. Evening-primrose (Oenothera biennis)		_[_[Wild Lily-of-valley (Maianthemum canadense		_	\bot	\sqcup
Green Amaranth (Amaranthus retroflexus)		Ш		\perp	Sweet-cicely (Osmorhiza berterii)	H	_	_		False Solom Seal (Maianthemum racemosum		+	+	\vdash
Hog-peanut (Amphicarpa bracteata)	\vdash	Н		+	Yellow Wood-sorrel (Oxalis stricta)	H	\dashv	-	-	Star False Solomon (Maianthemum stellatum		+	+-	\vdash
Pearly Everlasting (Anaphalis margaritacea)	H	Н	Н	+	Wild Parsnip (Pastinaca sativa) English Plantain (Plantago lanceolata)	\vdash		\dashv	+	True Solomon Seal (Polygonatum pubescens Pickerel-weed (Pontederia cordata)	+	+	+	\vdash
Canada Anemone (Anemone canadensis) Ivy Hepatica (Anemone acutiloba)		\vdash	-	-+-	Common Plantain (<i>Plantago tariceolata</i>)	Н	\dashv	-	\dashv	Curly-leaf Pondweed (Potamogeton crispus)	\dashv	+	+	\vdash
Thimbleweed (Anemone virginiana)	П	Н	H	+	Rugel's Plantain (<i>Plantago rugelii</i>)	Н	H	1	+	Sago Pondweed (Potamogeton pectinatus)	\dashv	+	+	Н
Purple Angelica (Angelica atropurpurea)		П		1	May-apple (Podophyllum peltatum)			_		Potamogeton	丁	J	I	
Indian Hemp (Apocynum cannabinum)					Pale Smartweed (Polygonum lapathifolium)					Potamogeton	I	I	I	\Box
Wild Sarsaparilla (Aralia nudicaulis)		Ш			Lady's-thumb (Polygonum persicaria)	Ш		_]		Broad-leaved Arrowhead (Sagittaria latifolia)	\perp	\perp	+	Ш
Spikenard (Aralia racemosa)	Ľ	Ш	Ц		Virginia Knotweed (Polygonum virginianum)	Н		4	_ _	Blue-eyed-grass (Sisyrinchium montanum)	\dashv	+	+	\vdash
Wild Ginger (Asarum canadense)	\vdash	\vdash	Н	+	Polygonum	⊢⊦	\dashv	-	+	Herb. Carrion Flower (Smilax herbacea)	\dashv	+	+	\vdash
Swamp Milkweed (Asclepias incarnata)	\vdash	Н	Н	+	Polygonum Rough Cinquefoil (Potentilla norvegica)	Н	Н	-	-+	Bristly Greenbrier (Smilax hispida) Nodding Ladies' Tresses (Spiranthes cernua)	+	+	+-	\vdash
Common Milkweed (Asclepias syriaca) Yellow Rocket (Barbarea vulgaris)		Н	Н	+	Rough-fruited Cinquefoil (Potentilla recta)	\vdash	\dashv	\dashv	+	Rose Twisted-stalk (Streptopus lanceolatus)	\dashv	+	+	\vdash
False Nettle (Boehmeria cylindrica)	H	Н	Н		Common Cinquefoil (Potentilla simplex)	Н	Н	-	-	Skunk-cabbage (Symplocarpus foetidus)	\sqcap	+	+	\vdash
Black Mustard (Brassica nigra)	T	Н	H		Potentilla	П	Н	1	-†-	Purple Trillium (Trillium erectum)	\Box †	T	T	П
Marsh-marigold (Caltha palustris)					Heal-all (Prunella vulgaris)			J	工	White Trillium (Trillium grandiflorum)	I	I	I	
Creeping Bellflower (Campanula rapunculoid	les				Shinleaf (<i>Pyrola elliptica</i>)					Large-flowered Bellwort (Uvularia grandiflora)	ot	\perp	┰	1_
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D - Dominant: represented by large numbers; generall						>100			001/07		—			
					by fairly large numbers of individual clumps, usually forming ividuals or represented by one or more clumps of many indivi					will fall into this catergory)		—		\dashv
R - Rare: represented in the polygon by less than about						Judi	- (111)	JUL 3,	F0000	uno uno unorgory,	—			
Map Number:					۱ - ۲ - ۲ - ۲ - ۲ - ۲ - ۲ - ۲ - ۲ - ۲ -	4	_				_	$\overline{}$		ᅱ

Wetland Data Collection Sheet



	Map No: 9226542591 1-dd): $2012-10-11$ Time Started: Time Finished:
Presence of G	
Site Type	Lacustrine □ (associated with lakes) Isolated, ☑ Riverine □ (associated with rivers) NO (A) (A) Palustrine □ absent or intermittnet inflow and either intermittnet or permanent outflow what are the water inputs and outputs? Softage over land flow
Soils	refer to ELC card for soils information
Type 3 - 5-25%	
Community D	escriptions
h (deciduous tree c (coniferous tree dh (dead deciduo dc (dead conifero	be (broad leaved emergents) Is (low shrubs up to 1m) ff (free floating) us trees) gc (ground cover) ds (dead shrubs) su (all under water)
Map Code/ ELC Code	Community Description - list at least four dominant species for each form
h	Acefree, Fra Penn, Load Salix
Sc	imm carex sp.
	•

An additional site investigation of the Fresh to Moist White Elm Lowland Deciduous Forest (FOD7-1) community within Natural Area 721 was completed at the request of the MNR to confirm the presence/absence of wetland habitat within this community. During this visit additional field data, including prism sweeps, soil pits, and a species composition survey, was collected to supplement the information obtained from the initial site investigation.

Based on this information obtained from the additional site investigation the community in question contains a canopy that covers less than 15% of this feature is comprised primarily of Green Ash, a subcanopy that covers more than 60% of this feature and is comprised of Basswood, White Elm, Ironwood and Bitternut Hickory, a shrub layer that covers 25 to 60% of this community and is comprised of Raspberry, Common Buckthorn and Swamp Red Current, and a ground layer that covers 10 to 25% of this community and is comprised of Wood Avens, Virginia Strawberry, Canada Anemone and Zig-zag Goldenrod. The results of the prism sweeps within this community found that White Elm, Basswood, Green Ash and Ironwood were the most common tree species within this community. Information obtained from the additional soil pits indicated that the dominant soils within this community were silty loam and fine silty clay with no evidence of ground water, mottling, gleying or organic soils. Two small wetlands, a Forb Mineral Meadow Marsh (MAM2-10) community and a Swamp Maple Mineral Deciduous Swamp (SWD3-3) community, were confirmed during this visit however due to their small size (less than 0.5 ha) and the absence of any significant functions or features an OWES evaluation was not completed.

In conclusion wetland species did not cover more than 50% of the community in question. The majority of the species that were present within the community that did have a negative wetness index were not obligate wetland species, indicating that they usually occur in wetlands but can also be found in non-wetlands (MNR, 2007). Therefore based on this information, and information obtained from the MNR Interpretation of Current (December, 2002) OWES Manuals which states that the wetness index should not alone be used to define wetland boundaries or communities (MNR, 2007), the findings from the additional site investigation support the results obtained from the initial investigation that the FOD7-1 community within natural area 271 is not a wetland.