I	CONIFERS	1	2	3	4	5	6	I	TREES and SHRUBS	1	2	3	4	5	6	I	GRAMINOIDS	1	2	3	4	5	6
	Abies balsamea							+	Rosa multiflora								Agrostis gigantea						
	Juniperus communis								Rosa								Agrostis stolonifera						
	Juniperus virginiana								Rubus allegheniensis								Agropyron repens						
	Larix laricina								Rubus idaeus	X	X						Alopecuris						
	Picea abies								Rubus occidentalis								Bromus inermis						
	Picea glauca								Rubus odoratus								Calamagrostis canadensis						
	Pinus resinosa								Rubus pubescens								Carex arctata						
	Pinus strobus								Salix alba								Carex aurea						
	Pinus sylvestris								Salix amygdaloides								Carex bebbii						
	Thuja occidentalis								Salix bebbiana								Carex blanda						
	Tsuga canadensis							+	Salix discolor								Carex gracillima						
									Salix eriocephala								Carex granularis						
									Salix exigua								Carex hystericina						
									Salix lucida								Carex pensylvanica						
									Salix petiolaris								Carex radiata						
	TREES and SHRUBS							+	Salix purpurea								Carex retrorsa						
	Acer negundo								Salix x rubens								Carex stipata						
	Acer rubrum							+	Salix								Carex stricta						
	Acer saccharinum								Sambucus canadensis								Carex vulpinoidea						
	Acer saccharum	X	X						Sambucus racemosa	X	X						Carex						
	Acer spicatum								Sorbus aucuparia								Carex						
	Alnus rugosa								Spiraea alba								Carex						
	Amelanchier								Syringa vulgaris								Carex						
	Berberis thunbergii							+	Tilia americana	X	X						Carex						
	Betula alleghaniensis								Ulmus americana								Carex						
	Betula papyrifera								Ulmus								Carex						
	Carpinus caroliniana								Vaccinium								Carex						
	Carya cordiformis								Viburnum lentago								Carex						
	Celastrus scandens								Viburnum opulus	X							Cyperus						
	Cornus alternifolia	X							Viburnum								Cyperus						
	Cornus amomum								Vitis riparia	X							Dactylis glomerata						
	Cornus rugosa																Danthonia spicata						
	Cornus stolonifera								Carya ovata	X	X						Echinochloa crus-galli						
	Corylus cornuta																Eleocharis erythropoda						
	Crataegus monogyna																Eleocharis						
	Crataegus punctata																Elymus virginicus						
	Crataegus sp.																Elymus						
	Crataegus																Festuca arundinacea						
	Diervilla lonicera																Glyceria striata	X					
	Fagus grandifolia	X	X														Glyceria						
	Fraxinus americana	X	X														Juncus dudleyi						
	Fraxinus nigra								FERNS								Juncus effusus						
	Fraxinus pennsylvanica								Adiantum pedatum								Juncus tenuis						
	Ilex verticillata								Athyrium filix-femina								Juncus						
	Juglans cinerea	X							Botrychium multifidum								Juncus						
	Juglans nigra	X							Botrychium virginianum								Leersia oryzoides						
	Lonicera morrowi								Cystopteris bulbifera								Muhlenbergia						
	Lonicera tatarica								Dryopteris carthusiana								Oryzopsis asperifolia						
	Lonicera								Dryopteris cristata								Panicum						
	Malus pumila								Dryopteris marginalis								Panicum						
	Ostrya virginiana	X	X						Dryopteris								Phalaris arundinacea						
	Parthenocissus inserta								Equisetum arvense								Phleum pratense						
	Populus balsamifera								Equisetum hyemale								Phragmites australis						
	Populus grandidentata								Equisetum variegatum								Poa compressus						
	Populus tremuloides								Equisetum sylvestre	X							Poa pratensis						
	Populus								Gymnocarpium dryoperis								Poa						
	Prunus pensylvanica								Lycopodium digitatum								Scirpus atrovirens						
	Prunus serotina	X	X						Lycopodium obscurum								Scirpus cyperinus						
	Prunus virginiana	X	X						Lycopodium								Scirpus validus						
	Prunus cerasus	X	X						Lycopodium								Scirpus						
	Quercus macrocarpa								Matteucia struthiopteris								Scirpus						
	Quercus rubra								Onoclea sensibilis								Setaria						
	Quercus								Osmunda cinnamonia								Sparganium						
	Rhamnus cathartica	X							Osmunda regalis								Typha angustifolia						
	Rhus radicans	X	X						Polystichum acrostichoides								Typha latifolia						
	Rhus typhina								Pteridium aquilinum								Typha Xglauca						
	Ribes americana								Thelypteris palustris														
	Ribes cynosbati	X																					
	Ribes x rubrum																						
	Robinia pseudo-acacia																						
	Ribes lacustre	X																					
	Ribes triste		X																				

Bluewater Feature: 537_BLW1448/1086/1019/1035/1001

(Additional properties to be surveyed due to changes in the Collection & Road layout)

0 35 70 140 Meters

October 17, 2011

Roads
Access/Collection Line
Survey to be Completed
Turbine Buffer (171.5m)
ELC Survey Completed
Turbine Buffer/Feature Intersect
Property Fabric
Bluewater Wind Energy Centre

Bluewater Feature: 539_BLW1478

(Properties that contain Features within 125m from Collection Lines and 171.5m from Turbines)

0 25 50 100 Meters

August 29, 2017

Legend
- Access/Collection Line
- Collector Buffer (125m)
- Turbine Buffer (171.5m)
- Collection/Feature Intersect
- Turbine Buffer/Feature Intersect
- Property Fabric
- Bluewater Wind Energy Centre

PRE-SURVEY COMMENT: Road Survey

* ASA Roadside Survey

ELC Community Description and Classification

Site: 539_BLW1478		Polygon: 1	
Surveyor(s): SAM	Date: Oct 6/11	Time start: 1851h	finish: 1908h
UTMZ: 17T	UTMZ: 445527	UTMN: 4820737	

w Pa 336

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1			WB >> Cottonwood > Ash (green/white/black)
2			
3			
4			

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

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
BA: N/A	Standing Snags:	<10	10-24	25-50	>50
	Deadfall / Logs:	<10	10-24	25-50	>50

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

Com. Age:	Pioneer	Young	X Mid-Age	Mature	Old Growth

Ecosite:	Fresh-Moist Lowland Deciduous Forest	Code:	FOD7
Vegetation Type:	Fresh-Moist Black walnut Lowland Deciduous Forest Type	Code:	FOD7-4
Inclusion:	/	Code:	/
Complex:		Code:	

Community Profile Diagram/Comments

Notes: * I believe the greater ecological feature (539) is a wetland (swamp forest), but this small buffer area is not, due to higher elevation on slope & proximity to the roadway.

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
N/A						
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Pit/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position		N/A		
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description								
1	Depth from zero	% CF	% CF	% CF	% CF			
	Texture							
2	Depth from zero	% CF	% CF	% CF	% CF			
	Texture							
3	Depth from zero	% CF	% CF	% CF	% CF			
	Texture							
4	Depth from zero	% CF	% CF	% CF	% CF			
	Texture							
	% Surface Stone/Rock							
Moisture Regime								
Drainage								

VASCULAR PLANT CHECKSHEET

Location: 539_BLW 1478
Observer: SAM
Date: Oct. 6/11
Job Number:

DICOT HERBS	1	2	3	4	5	6
Achillea millefolia						
Actaea pachypoda						
Actaea rubra						
Agalinus						
Agrimonia gryposepala						
Alliaria petiolaris						
Amaranthus retroflexus						
Ambrosia artemisiifolia						
Amphicarpaea bracteata						
Anaphalis margaritacea						
Anemone						
Anemone canadensis						
Anemone virginiana						
Antennaria neglecta						
Apocynum androsaemifolium						
Apocynum cannabinum						
Aquilegia canadensis						
Aralia nudicaulis						
Arctium minus						
Artemisia						
Asarum canadense						
Asclepias incarnata						
Asclepias syriaca						
Aster						
Aster cordifolius						
Aster ericoides						
Aster lanceolatus	X					
Aster lateriflorus						
Aster macrophyllus						
Aster novae-angliae	X					
Aster puniceus						
Barbarea vulgaris						
Bidens cernua						
Bidens frondosa						
Boehmeria cylindrica						
Caltha palustris						
Calystegia sepium						
Cardamine diphylla						
Cardamine						
Caulophyllum thalictroides						
Cerastium fontanum						
Ceratophyllum demersum						
Chelidonium majus						
Chenopodium album						
Chrysanth. leucanthemum						
Cichorium intybus						
Cicuta						
Circaea lutetiana						
Cirsium arvense						
Cirsium vulgare						
Clematis virginiana						
Clintonia borealis						
Conyza canadensis						
Coronilla varia						
Cynanchum rossicum						
Cynoglossum officinale						
Daucus carota						
Desmodium canadense						
Dianthus armeria						
Dipsacus fullonum						
Echinocystis lobata						
Echium vulgare						
Epilobium						
Epilobium ciliatum						
Epilobium hirsutum						
Epilobium parviflorum						

	1	2	3	4	5	6
Erigeron annuus						
Erigeron philadelphicus						
Erigeron strigosus						
Erysimum chieranthoides						
Eupatorium maculatum						
Eupatorium perfoliatum						
Eupatorium rugosum						
Euphorbia						
Euthamia graminifolia						
Fragaria virginiana						
Fragaria vesca						
Galeopsis tetrahit						
Galium						
Galium						
Galium palustre						
Galium trifiorum						
Geranium maculatum						
Geranium robertianum						
Geum aleppicum						
Geum canadense						
Geum						
Glecoma hederacea						
Hepatica acutiloba						
Hesperis matronalis						
Hieracium aurantiacum						
Hieracium caespitosum						
Hieracium						
Hydrophyllum virginianum						
Hypericum perforatum						
Impatiens capensis						
Inula helenium						
Lactuca						
Laportea canadensis						
Lapsana communis						
Leonurus cardiaca						
Lepidium						
Linaria vulgaris						
Lithospermum officinale						
Lobelia						
Lobelia inflata						
Lotus corniculatus						
Lycopus americanus						
Lycopus						
Lysimachia ciliata						
Lythrum salicaria						
Medicago lupulina						
Medicago sativum						
Melilotus alba						
Mentha arvensis						
Mimulus ringens						
Mimulus ringens						
Mitella diphylla						
Monarda fistulosa						
Myosotis						
Nasturtium officinale						
Nepeta cataria						
Nuphar variegatum						
Nymphaea odorata						
Oenothera biennis						
Osmorhiza						
Oxalis stricta						
Phyrma leptostachya						
Physalis heterophylla						

	1	2	3	4	5	6
Plantago lanceolata						
Plantago major						
Plantago rugolii						
Podophyllum peltatum						
Polygonum						
Polygonum						
Polygonum						
Polygonum lapathifolium						
Polygonum persicaria						
Potentilla						
Potentilla norvegica						
Potentilla recta						
Prenanthes alba						
Prunella vulgaris						
Pyrola elliptica						
Ranunculus						
Ranunculus abortivus						
Ranunculus acris						
Rudbeckia hirta						
Rumex acetosella						
Rumex crispus						
Rumex						
Sanguinaria canadensis						
Sanicula marilandica						
Saponaria officinalis						
Satureja vulgaris						
Scutellaria galericulata						
Silene vulgaris						
Sium suave						
Solanum dulcamara						
Solidago						
Solidago altissima						
Solidago caesia						
Solidago canadensis	X					
Solidago flexicaulis						
Solidago gigantea						
Solidago nemoralis						
Solidago rugosa						
Sonchus arvensis						
Sonchus asper						
Stellaria						
Tanacetum vulgare						
Taraxacum officinale						
Thalictrum dioicum						
Thalictrum pubescens						
Tiarella cordifolia						
Tragopogon pratensis						
Trientalis borealis						
Trifolium						
Trifolium pratense						
Trifolium repens						
Tussilago farfara						
Urtica dioica						
Utricularia vulgaris						
Verbascum thapsus						
Verbena hastata						
Verbena urticifolia						
Veronica						
Veronica officinalis						
Vicia cracca						
Vicia tetrasperma						
Viola						
Viola						
Viola pubescens						
Viola sororia						

MONOCOT HERBS	1	2	3	4	5	6
Alisma plantago-aquatica						
Allium tricoccum						
Allium						
Arisaema triphyllum						
Asparagus officinalis						
Calla palustris						
Clintonia borealis						
Convallaria majus						
Cypripedium calceolus						
Elodea canadensis						
Epipactis helleborine						
Erythronium americanum						
Hemerocallis fulva						
Iris versicolor						
Lemna minor						
Lemna trisulca						
Lilium						
Maianthemum canadense						
Maianthemum racemosa						
Maianthemum stellata						
Platanthera						
Pontederia cordata						
Polygonatum pubescens						
Potamogeton crispus						
Potamogeton pectinatus						
Potamogeton						
Potamogeton						
Potamogeton						
Sagittaria latifolia						
Sisyrinchim montanum						
Smilax herbacea						
Spiranthes cernua						
Spirodela polyrhiza						
Streptopus roseus						
Trillium erectum						
Trillium grandiflorum						
Uvularia grandiflora						

SITE LOCATIONS

1: Polygon (1)
2:
3:
4:
5:
6:

I	CONIFERS	1	2	3	4	5	6
	Abies balsamea						
	Juniperus communis						
	Juniperus virginiana	X					
	Larix laricina						
	Picea abies						
	Picea glauca						
	Pinus resinosa						
	Pinus strobus						
	Pinus sylvestris						
	Thuja occidentalis	X					
	Tsuga canadensis						

I	TREES and SHRUBS	1	2	3	4	5	6
	Acer negundo						
	Acer rubrum						
	Acer saccharinum						
	Acer saccharum	X					
	Acer spicatum						
	Alnus rugosa						
	Amelanchier						
	Berberis thunbergii						
	Betula alleghaniensis						
	Betula papyrifera						
	Carpinus caroliniana						
	Carya cordiformis						
	Celastrus scandens						
	Cornus alternifolia						
	Cornus amomum						
	Cornus rugosa						
	Cornus stolonifera						
	Corylus cornuta						
	Crataegus monogyna						
	Crataegus punctata						
	Crataegus sp.						
	Crataegus						
	Diervilla lonicera						
	Fagus grandifolia						
	Fraxinus americana	X					
	Fraxinus nigra	X					
	Fraxinus pennsylvanica						
	Ilex verticillata						
	Juglans cinerea						
	Juglans nigra	X					
	Lonicera morrowi						
	Lonicera tatarica						
	Lonicera						
	Malus pumila						
	Ostrya virginiana						
	Parthenocissus inserta						
	Populus balsamifera						
	Populus grandidentata						
	Populus tremuloides						
	Populus deltoides	X					
	Prunus pensylvanica						
	Prunus serotina						
	Prunus virginiana						
	Prunus cerasus	X					
	Quercus macrocarpa						
	Quercus rubra						
	Quercus						
	Rhamnus cathartica	X					
	Rhus radicans						
	Rhus typhina	X					
	Ribes americana						
	Ribes cynosbati						
	~~Ribes x rubrum~~						
	Robinia pseudo-acacia						

I	TREES and SHRUBS	1	2	3	4	5	6
+	Rosa multiflora						
	Rosa						
	Rubus allegheniensis						
	Rubus idaeus						
	Rubus occidentalis	X					
	Rubus odoratus						
	Rubus pubescens						
	Salix alba						
	Salix amygdaloides						
	Salix bebbiana						
+	Salix discolor						
	Salix eriocephala						
	Salix exigua						
	Salix lucida						
	Salix petiolaris						
+	Salix purpurea						
	Salix x rubens						
+	Salix fragilis	X					
	Sambucus canadensis						
	Sambucus racemosa						
	Sorbus aucuparia						
	Spiraea alba						
	Syringa vulgaris						
+	Tilia americana						
	Ulmus americana						
	Ulmus						
	Vaccinium						
	Viburnum lentago						
	Viburnum opulus						
	Viburnum						
	Vitis riparia						

I	FERNS	1	2	3	4	5	6
	Adiantum pedatum						
	Athyrium filix-femina						
	Botrychium multifidum						
	Botrychium virginianum						
	Cystopteris bulbifera						
	Dryopteris carthusiana						
	Dryopteris cristata						
	Dryopteris marginalis						
	Dryopteris						
	Equisetum arvense						
	Equisetum hyemale						
	Equisetum variegatum						
	Equisetum						
	Gymnocarpium dryopteris						
	Lycopodium digitatum						
	Lycopodium obscurum						
	Lycopodium						
	Lycopodium						
	Matteucia struthiopteris						
	Onoclea sensiblis						
	Osmunda cinnamonia						
	Osmunda regalis						
	Polystichum acrostichoides						
	Pteridium aquilinum						
	Thelypteris palustris						

I	GRAMINOIDS	1	2	3	4	5	6
	Agrostis gigantea						
	Agrostis stolonifera						
	Agropyron repens						
	Alopecuris						
	Bromus inermis						
	Calamagrostis canadensis						
	Carex arctata						
	Carex aurea						
	Carex bebbii						
	Carex blanda						
	Carex gracillima						
	Carex granularis						
	Carex hystericina						
	Carex pensylvanica						
	Carex radiata						
	Carex retrorsa						
	Carex stipata						
	Carex stricta						
	Carex vulpinoidea						
	Carex						
	Carex						
	Carex						
	Carex						
	Carex						
	Carex						
	Carex						
	Carex						
	Carex						
	Cyperus						
	Cyperus						
	Dactylis glomerata						
	Danthonia spicata						
	Echinochloa crus-galli						
	Eleocharis erythropoda						
	Eleocharis						
	Elymus virginicus						
	~~Elymus~~						
	Festuca arundinacea						
	Glyceria striata						
	Glyceria						
	Juncus dudleyi						
	Juncus effusus						
	Juncus tenuis						
	Juncus						
	Juncus						
	Leersia oryzoides						
	Muhlenbergia						
	Oryzopsis asperifolia						
	Panicum						
	Panicum						
	Phalaris arundinacea						
	Phleum pratense						
	Phragmites australis						
	Poa compressus						
	Poa pratensis						
	Poa						
	Scirpus atrovirens						
	Scirpus cyperinus						
	Scirpus validus						
	Scirpus						
	Scirpus						
	Setaria						
	Sparganium						
	Typha angustifolia						
	Typha latifolia						
	Typha Xglauca						

ELC Plant Species List	
	SITE: 539_BLW 1478
	POLYGON: 1
	DATE: Oct 6/11
	SURVEYOR(S): SAM

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASSIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COLL.
BlK Rosp					
Aw					
WB					
Pan Aster					
NE Aster					
Com G'rod					
Cw					
MH					
Cottonwood					
Crack willow					
SH Sumac					
Red Cedar					
Sour Cherry					
Black Ash					
Com. Buckthorn					

SPECIES CODE	LAYER 1	2	3	4	COLL.

NW-Top

SMW-5 / GE 16-5 Turbine ELC completed May 12/11 - JP

541_BLW1065

Bluewater Access Road / Collection Lines

Completed Aug. 19/11 - SAM

0 40 80 160 Meters

Roads
Watercourses
No Access (as of August 2011)
Aerials
ELC to Evaluate
Waterbodies
Bluewater Wind Energy Centre
120m Buffer

BLW1510

SMW-5
GE 16-5

Alfalfa

WMK2-10
2= (UW)
3= Foot
4= Foot

ELC Community Description and Classification

Site: BLW541		Polygon: 1	
Surveyor(s): SAM	Date: Aug. 19/11	Time start: 1340h	finish: 1420h
UTMZ: 17T	UTMZ: 445603	UTMN: 4820762	

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	T-2	White Ash = Green Ash > White Elm
2	3	2	Red Osier Dogwood > Salix bebbiana > Common Buckthorn > Salix eriocephala
3	4	4	Panicled Aster > Joe Pye = Grass-leaved Goldenrod ≥ Smooth Goldenrod
4	5-4	3-1	Yellow Sedge = Carex Comosa > Equis. pratense > Jewelweed

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

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

N/A

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

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:	Mineral Meadow Marsh Ecosite	Code:	MAM2
Vegetation Type:	Forb Mineral Meadow Marsh Type	Code:	MAM2-10
Inclusion:	—	Code:	—
Complex:	—	Code:	—

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	% Abn
N/A						
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

											Summary
Site Metrics		Pit/Auger #	WP248 (1)								
	UTM	Zone									Moisture Regime
		Easting									
		Northing									
	Slope	Position	S								
		Aspect	E								Drainage
		Percent	2								
		Slope Length	40m								
Depth to...		Mottles	32								
		Gley	[redacted] 73								Effective Texture (indicate below)
		Water Table	>120								
		Carbonates	—								
		Bedrock	—								
Soil Horizon Description	1	Depth from zero	Ø	% CF		% CF		% CF		% CF	
		Texture	SiL								
	2	Depth from zero	17	% CF		% CF		% CF		% CF	
		Texture	Op								
	3	Depth from zero	29	% CF		% CF		% CF		% CF	
		Texture	SivfS								SivfS
	4	Depth from zero	87	% CF		% CF		% CF		% CF	
		Texture	C								
		% Surface Stone/Rock									
	Moisture Regime		Moist (5)								Moist (5)
	Drainage		Imperfect (5)								Imperfect (5)

ELC Plant Species List	SITE: BLW 541
	POLYGON: 1 MAM 2-10
	DATE: Aug. 19/11
	SURVEYOR(S): SAM

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASSIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COLL.
BLCattail			A		
Joe Pye			D		
Tall G'rod			A		
Pan Aster			D		
Reed Canary					
GW	O				
AG	O				
R-O Dogwd		O			
Blk. Bulrush			O		
Red Cedar		R			
Jewelweed				O	
Com Buckthorn		O			
Grape					
NE Aster			A		
Swamp Aster			O		
GL G'rod			D		
Rice Cutgrass					
AW	O				
Salix eriocephala		R			
Carex Comosa				D	
Foul Manna					
Meadow Horsetail				A	
Yellow sedge				D	
Juncus effusus					
N. Water Horehound					
Bone set					
QA Lace					
Grey Dogwood					

SPECIES CODE	LAYER 1	2	3	4	COLL.
Stiff Aster					
Thimbleweed					
Balsam Ragwort				O	
Poa compressa					
Strawberry					
Phragmites australis					
Staghorn Sumac		R			
Poa palustris					
Swamp Milkweed			R		
Canada G'rod			O		
Milkweed					
Salix bebbiana		O			
Smooth Goldenrod			D		

ELC WILDLIFE			
	SITE: BLW 541		
	POLYGON: D		
	DATE: Aug 19/11		
	SURVEYORS: SAM		
	START TIME: 1340h	END TIME: 1422 h	

TEMP (°C): 26	CLOUD (10th): 1	WIND: 1	PRECIPITATION: nil
CONDITIONS: Clear, sunny, warm, light breeze			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA	X	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	EAKI	VO		2					
B	CEWA	VO		1					
B	SOSP	VO		3					
B	AMGO	VO		2					

FAUNAL TYPE CODES (TY):

B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:

SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:

T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:

DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:

OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC Community Description and Classification

Site: BLW 541		Polygon: 2	
Surveyor(s): SAM	Date: Aug. 19/11	Time start: 1437 finish: 1458	
UTMZ: 17T	UTMZ:	UTMN:	

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Ew >> Aw >> PT
2	3	3	Ew > Buckthorn = Rhus typhina > PT
3	4	2	Joe Pye Weed = Tall Goldenrod > Reed Canary > Black Elder
4	5-4	3	Rubus alleg. = Panicled Aster > Red Raspberry > Yellow Avens

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 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
Ew 50 Aw 30 PT 20	Standing Snags:	N	O	O	N
BA: 20	Deadfall / Logs:	N	O	O	N

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

Cont. Age: ☐ Pioneer ☒ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:	Mineral Cultural Woodland Ecosite	Code:	CUW1
Vegetation Type:	White Elm Cultural Woodland Type Mineral	Code:	CUW1
Inclusion:	—	Code:	—
Complex:	—	Code:	—

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Raw %
Ew	1 : 5				5	50
Aw	: 3				3	30
PT	.. 2				2	20
Total	10				10	100
Basal Area (BA)	20				20	
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics	Pit/Auger #					
	UTM	Zone				Moisture Regime
		Easting				
		Northing	N/A			
		Position				
	Slope	Aspect				Drainage
		Percent	Not wetland potential			
		Slope Length				
Depth to...	Mottles					Effective Texture (indicate below)
	Gley					
	Water Table					
	Carbonates					
	Bedrock					

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Plant Species List	SITE: BLW541
	POLYGON: 2
	DATE: Aug.19/11
	SURVEYOR(S): SAM

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASSIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COLL.
Siw	D	O			
SASumac		D			
Aw	A	O			
JoePye			D		
Tall Grass			D		
Grape					
Com. Buckthorn		D			
Wild Clematis					
RO Dogwood					
Rubus Reg.				D	
Pan. Aster				D	
Yellow Avens				O	
Rosp.					
Reed Canary			A		
BlK Elder			O		
PT	O				

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COLL.

ELC WILDLIFE		
	SITE: BLW 541	
	POLYGON: (2)	
	DATE: Aug. 19/11	
	SURVEYORS: SAM	
	START TIME: 1437h	END TIME: 1458h

TEMP (°C): 20	CLOUD (10th): 1	WIND: 1	PRECIPITATION: nil
CONDITIONS: Clear, sunny, hot, light breeze			

POTENTIAL WILDLIFE HABITAT:

\	VERNAL POOLS	\	SNAGS
\	HIBERNACULA	\	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	HOWR	SM		1					
B	SOSP	SM		2					

FAUNAL TYPE CODES (TY):

B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:

SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:

T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:

DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:

OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG
TK = TRACKS FE = FEEDING EVIDENCI SC = SCAT
SI = OTHER SIGNS (specify)

ELC Community Description and Classification

Site: BLW 541		Polygon: 3	
Surveyor(s): SAM	Date: Aug 19/11	Time start: 1511 h	finish: 1557 h
UTMZ: 17T	UTMZ:	UTMN:	

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Bp >= MH > CB > Aw
2	3-2	3	Bp >> Aw = MH > He
3	4-3	2-3	Blue Beech > Aw > Hs = Bp
4	5-6	3	Blue Cohosh > Jack In Pulpit > White Snakeroot > Fow Manna

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-8m 2 >8-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 80% 4 > 80%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
Bp41, MH26, CB19, Aw11		O	A	A	O
	Standing Snags:	R	O	O	R
BA: 27	Deadfall / Logs:	R	A	O	R

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

Com. Age:	Pioneer	Young	Mid-Age	Mature	Old Growth
				X	

Ecosite:	Lowland ~~Sugar Maple~~ Fresh-Moist ~~Sugar Maple~~ Deciduous Forest Ecosite	Code:	FOD7
Vegetation Type:	~~Fresh-Moist Sugar Maple Hardwood~~ Deciduous Forest Type (Basswood ~~Sugar Maple~~)	Code:	FOD7
Inclusion:	—	Code:	—
Complex:	—	Code:	—

Community Profile Diagram/Comments

Fresh-Moist Basswood - Sugar Maple Lowland Deciduous Forest Type FOD7

Notes:

Tree Tally by Species

Plot Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Abd.
Bp	6	5			11	41
MH	4	3			7	26
CB	3	2			5	19
Aw	2	1			3	11
He	0	1			1	4
Total	15	12			27	100
Basal Area (BA)	30	24			27	
Dead	1					

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Pit/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing	N/A			
	Slope	Position				
		Aspect				Drainage
		Percent	—	no wetland potential		
		Slope Length				
Depth to...	Mottles					Effective Texture (indicate below)
	Gley					
	Water Table					
	Carbonates					
	Bedrock					

Soil Horizon Description									
1	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
2	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
3	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
4	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
	% Surface Stone/Rock								
Moisture Regime									
Drainage									

ELC Plant Species List	
	SITE: BLW 541
	POLYGON: 3
	DATE: Aug. 19/11
	SURVEYOR(S): SAM

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASSIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COLL.
MH	A	O			
Be	O				
CB	A				
Sur Cherry					
Aw	O	A			
Bluebeech		D			
Alt Dogwd					
Bp	D	O			
BS G'rod					
Virg Creeper					
Hs	R	O			
Coul Mama			O	O	
Jack				A	
~~Black~~ Snakeroot (white)			A		
Jewelweed			O		
BS Nightshd				A	
Ew					
Early Meadow Rue				O	
Gur. H BC					
He	O				
By	R				
Bj					
Blue Cohosh				D	
Witch Hazel					

SPECIES CODE	LAYER 1	2	3	4	COLL.

— W T Ber
— Dowo

ELC	SITE: BLW 541		
	POLYGON: (3)		
	DATE: Aug 19/11		
WILDLIFE	SURVEYORS: SAN		
	START TIME: 1500h	END TIME: 1557h	

TEMP (°C): 26	CLOUD (10th): 1	WIND: 1	PRECIPITATION: nil
CONDITIONS: clear, sunny, light breeze			

POTENTIAL WILDLIFE HABITAT:

X	VERNAL POOLS	X	SNAGS
	HIBERNACULA	X	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	WTDEER	TK		1					
B	DOWO	SM		1					
B	WBNU	SM		2					

FAUNAL TYPE CODES (TY):

B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:

SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:

T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:

DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:

OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG
TK = TRACKS FE = FEEDING EVIDENCI SC = SCAT
SI = OTHER SIGNS (specify)

ELC Community Description and Classification

Site: BLW 541		Polygon: 4	
Surveyor(s): SAM	Date: 3 Aug 19/11	Time start: 1558 h	finish: 1639 h
UTMZ: 17 T	UTMZ:	UTMN:	

Polygon Description

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

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3-4	Ew >> Aw > Pt > AG
2	3-2	2	Ew = Aw > Sour Cherry > Alt Dogwood
3	3-4	4	Wild Clematis > Joe Pye > Common Buckthorn > Jewelweed
4	6-5	3	Poison Ivy > Sensitive Fern > Self Heal

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 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	R	<10	A	10-24	A	25-50	R	>50
Ew 43 Aw 30 Pt 17	Standing Snags:	N	<10	O	10-24	O	25-50	R	>50
BA: 23	Deadfall / Logs:	O	<10	O	10-24	A	25-50	R	>50

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

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:	Fresh-Moist Lowland Deciduous Forest	Code:	FOD7
Vegetation Type:	Fresh-Moist White Elm Lowland Deciduous Forest	Code:	FOD7-1
Inclusion:	—	Code:	
Complex:	—	Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Ew	4	6			10	43
Pt	2	2			4	17
Aw	3	4			7	30
AG	1	2			2	9
Total	9	14			23	100
Basal Area (BA)	18	28			23	
Dead		1				

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Pit/Auger #	WP251			
	UTM	Zone	17T			Moisture Regime
		Easting				
		Northing				
	Slope	Position	3			
		Aspect	NE			Drainage
		Percent	15			
		Slope Length	20m			
Depth to...		Mottles	72			
		Gley	>120			Effective Texture (indicate below)
		Water Table	>120			
		Carbonates	58			
		Bedrock	>120			

Soil Horizon Description										
	1	Depth from zero	0	% CF		% CF		% CF		% CF
		Texture	FSL							
	2	Depth from zero	23	% CF		% CF		% CF		% CF
		Texture	SiFS							
	3	Depth from zero	64	% CF		% CF		% CF		% CF
		Texture	C							C
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime		Very Fresh (3)						Very Fresh (3)	
	Drainage		Imperfect (5)						Imperfect (5)	

ELC Plant Species List	
	SITE: BLW 541
	POLYGON: 4
	DATE: Aug 19/11 end 1639h.
	SURVEYOR(S): SAM

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASSIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COLL.
EW	D	D			
PT	A				
Sour Cherry		A			
SA Sumac			A		
AW	A	D			
Com. Buckthorn			A		
Tall G'rod					
Reed Canary					
Wild Clematis			D		
Joe Pye			D		
Jewelweed			A		
Grape					
Alt Dogwd.		O			
P.T.				A	
Boneset			O		
Blue Vervain			R		
Virg. Creeper					
BL Cattail			R		
Smooth G'rod			A		
Sens. Fern				A	
N. Willow Herb			O		
Self Heal				O	
AG	O	O			

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COLL.

Location: BLW 541

Observer: SAM

VASCULAR PLANT CHECKSHEET

Date: Aug. 19/11

Job Number:

DICOT HERBS	1	2	3	4	5	6		1	2	3	4	5	6		1	2	3	4	5	6	MONOCOT HERBS	1	2	3	4	5	6
Achillea millefolia							Erigeron annuus							Plantago lanceolata							Alisma plantago-aquatica						
Actaea pachypoda							Erigeron philadelphicus							Plantago major							Allium tricoccum						
Actaea rubra							Erigeron strigosus							Plantago rugelii							Allium						
Agalinus							Erysimum chiranthoides							Podophyllum peltatum							Arisaema triphyllum			X			
Agrimonia gryposepala							Eupatorium maculatum	X	X		X			Polygonum							Asparagus officinalis						
Alliaria petiolaris							Eupatorium perfoliatum	X			X			Polygonum							Calla palustris						
Amaranthus retroflexus							Eupatorium rugosum			X				Polygonum							Clintonia borealis						
Ambrosia artemisiifolia							Euphorbia							Polygonum lapathifolium							Convallaria majus						
Amphicarpaea bracteata							Euthamia graminifolia	X						Polygonum persicaria							Cypripedium calceolus						
Anaphalis margaritacea							Fragaria virginiana	X						Potentilla							Elodea canadensis						
Anemone							Fragaria vesca							Potentilla norvegica							Epipactis helleborine						
Anemone canadensis							Galeopsis tetrahit							Potentilla recta							Erythronium americanum						
Anemone virginiana	X						Galium							Prenanthes alba							Hemerocallis fulva						
Antennaria neglecta							Galium							Prunella vulgaris	X		X				Iris versicolor						
Apocynum androsaemifolium							Galium palustre							Pyrola elliptica							Lemna minor						
Apocynum cannabinum							Galium triflorum							Ranunculus							Lemna trisulca						
Aquilegia canadensis							Geranium maculatum							Ranunculus abortivus							Lilium						
Aralia nudicaulis							Geranium robertianum							Ranunculus acris							Maianthemum canadense						
Arctium minus							Geum aleppicum		X					Rudbeckia hirta							Maianthemum racemosa						
Artemisia							Geum canadense							Rumex acetosella							Maianthemum stellata						
Asarum canadense							Geum							Rumex crispus							Platanthera						
Asclepias incarnata	X						Glecoma hederacea							Rumex							Pontederia cordata						
Asclepias syriaca							Hepatica acutiloba							Sanguinaria canadensis							Polygonatum pubescens						
Aster							Hesperis matronalis							Sanicula marilandica							Potamogeton crispus						
Aster cordifolius							Hieracium aurantiacum							Saponaria officinalis							Potamogeton pectinatus						
Aster ericoides							Hieracium caespitosum							Satureja vulgaris							Potamogeton						
Aster lanceolatus	X	X					Hieracium							Scutellaria galericulata							Potamogeton						
Aster lateriflorus							Hydrophyllum virginianum							Silene vulgaris							Potamogeton						
Aster macrophyllus							Hypericum perforatum							Sium suave							Sagittaria latifolia						
Aster novae-angliae	X						Impatiens capensis	X		X	X			Solanum dulcamara			X				Sisyrinchim montanum						
Aster puniceus	X						Inula helenium							Solidago							Smilax herbacea						
Barbarea vulgaris							Lactuca							Solidago altissima	X	X		X			Spiranthes cernua						
Bidens cernua							Laportea canadensis							Solidago caesia			X				Spirodela polyrhiza						
Bidens frondosa							Lapsana communis							Solidago canadensis	X						Streptopus roseus						
Boehmeria cylindrica							Leonurus cardiaca							Solidago flexicaulis							Trillium erectum						
Caltha palustris							Lepidium							Solidago gigantea	X			X			Trillium grandiflorum						
Calystegia sepium							Linaria vulgaris							Solidago nemoralis							Uvularia grandiflora						
Cardamine diphylla							Lithospermum officinale							Solidago rugosa													
Cardamine							Lobelia							Sonchus arvensis													
Caulophyllum thalictroides			X				Lobelia inflata							Sonchus asper													
Cerastium fontanum							Lotus corniculatus							Stellaria													
Ceratophyllum demersum							Lycopus americanus	X						Tanacetum vulgare													
Chelidonium majus							Lycopus uniflorus	X						Taraxacum officinale													
Chenopodium album							Lysimachia ciliata							Thalictrum dioicum			X										
Chrysanth. leucanthemum							Lythrum salicaria							Thalictrum pubescens													
Cichorium intybus							Medicago lupulina							Tiarella cordifolia													
Cicuta							Medicago sativum							Tragopogon pratensis													
Circaea lutetiana							Melilotus alba							Trientalis borealis													
Cirsium arvense							Mentha arvensis							Trifolium													
Cirsium vulgare							Mimulus ringens							Trifolium pratense													
Clematis virginiana		X		X			Mimulus ringens							Trifolium repens													
Clintonia borealis							Mitella diphylla							Tussilago farfara													
Conyza canadensis							Monarda fistulosa							Urtica dioica													
Coronilla varia							Myosotis							Utricularia vulgaris													
Cynanchum rossicum							Nasturtium officinale							Verbascum thapsus													
Cynoglossum officinale							Nepeta cataria							Verbena hastata				X									
Daucus carota	X						Nuphar variegatum							Verbena urticifolia													
Desmodium canadense							Nymphaea odorata							Veronica													
Dianthus armeria							Oenothera biennis							Veronica officinalis													
Dipsacus fullonum							Osmorhiza							Vicia cracca													
Echinocystis lobata							Oxalis stricta							Viola tetrasperma													
Echium vulgare							Phyrma leptostachya							Viola													
Epilobium							Physalis heterophylla							Viola													
Epilobium ciliatum				X										Viola pubescens													
Epilobium hirsutum							Packera pauperculla							Viola sororia													
Epilobium parviflorum								X																			

SITE LOCATIONS

1: Polygon #1

2: Polygon #2

3: Polygon #3

4: Polygon #4

5:

6: