

ELC WILDLIFE	SITE: <i>Bl. 493</i>	
	POLYGON:	
	DATE: <i>Oct. 20, 2011</i>	
	SURVEYORS: <i>J.D., TS.</i>	
	START TIME:	END TIME:

TEMP (°C): <i>12.2</i>	CLOUD (10h): <i>100%</i>	WIND:	PRECIPITATION:
------------------------	--------------------------	-------	----------------

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

VERNAL POOLS	SNAGS
HIBERNACULA	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	<i>Am. crow</i>	<i>03</i>							
B	<i>bl. jay</i>	<i>03</i>							
B	<i>Am. robin</i>	<i>08</i>							

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)

494

B73 - June 29, 2011 - ELC - Roadside



FLC
 community description
 classification

Site: Bluestem 494 Polygon: 873-494
 Surveyor(s): J.P. AD Date: July 29, 2011 Time start: 1:14 finish: 4:22
 UTMZ: _____ UTMN: _____

Polygon Description * Renewable *

<input type="checkbox"/> Terrestrial	<input type="checkbox"/> Lacustrine	<input type="checkbox"/> Plankton	<input type="checkbox"/> Lake
<input type="checkbox"/> Wetland	<input type="checkbox"/> Riverine	<input type="checkbox"/> Submerged	<input type="checkbox"/> Pond
<input type="checkbox"/> Aquatic	<input type="checkbox"/> Mineral Soil	<input type="checkbox"/> Floating-LVD	<input type="checkbox"/> River
	<input type="checkbox"/> Parent Min.	<input type="checkbox"/> Graminoid	<input type="checkbox"/> Stream
	<input type="checkbox"/> Acidic Bedrk	<input type="checkbox"/> Forb	<input type="checkbox"/> Marsh
<input type="checkbox"/> Open Water	<input type="checkbox"/> Valley Slope	<input type="checkbox"/> Lichen	<input type="checkbox"/> Swamp
<input type="checkbox"/> Shallow Water	<input type="checkbox"/> Tableland	<input type="checkbox"/> Bryophyte	<input type="checkbox"/> Fen
<input type="checkbox"/> Surficial Dep.	<input type="checkbox"/> Roll. Upland	<input checked="" type="checkbox"/> Deciduous	<input type="checkbox"/> Bog
<input type="checkbox"/> Bedrock	<input type="checkbox"/> Cliff	<input type="checkbox"/> Coniferous	<input type="checkbox"/> Barren
<input type="checkbox"/> Natural	<input type="checkbox"/> Talus	<input type="checkbox"/> Mixed	<input type="checkbox"/> Meadow
<input type="checkbox"/> Cultural	<input type="checkbox"/> Crevices/Cave		<input type="checkbox"/> Prairie
	<input type="checkbox"/> Aiver		<input type="checkbox"/> Thicket
<input type="checkbox"/> Open	<input type="checkbox"/> Rockland		<input type="checkbox"/> Savannah
<input type="checkbox"/> Shrub	<input type="checkbox"/> Beach / Bar		<input type="checkbox"/> Woodland
<input checked="" type="checkbox"/> Treed	<input type="checkbox"/> Sand Dune		<input type="checkbox"/> Forest
	<input type="checkbox"/> Bluff		<input type="checkbox"/> Plantation

Stand Description

Layer: 4 Million - Umanak - Thibault - ACE FLEE

HT Codes: 7 < 0.2m 6 > 0.2-0.5m 5 > 0.5-1m 4 > 1-2m 3 > 2-5m 2 > 5-25m 1 > 25m
 DWR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

1	< 10	10-24	25-50	> 50
2	< 10	10-24	25-50	> 50
3	< 10	10-24	25-50	> 50
4				

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

Community: Pioneer Young Mid-Age Mature Old Growth

Community Profile Diagram/Comments

Fresh-Moist lowland Deciduous
Forest - Umanak
Million - Umanak - Thibault - ACE FLEE

FOD 7
MAN 2

Notes:

→ cedars been down 25% over

Tree Tally by Species

Species	Tally	Code
...
...
...

Soils Ontario and ELC Soils Description

Pit/Auger # _____

Zone _____ Easting _____ Northing _____ Position _____ Aspect _____ Percent _____ Slope _____ Length _____

Site Metrics: UTM _____ Slope _____

Soil Horizon Description

Depth (cm)	Mottles	Gley	Water Table	Carbonates	Bedrock	Depth from zero	Texture	% CF	% CF	% CF	% CF	Effective Texture (indicate below)	% CF
1													
2													
3													
4													
Moisture Regime		Drainage		%		%		%		%		%	

VASCULAR PLANT CHECKSHEET

Location: BT3-494

Date: June 29, 2011

Observer: JP-AD

Job Number:

1	2	3	4	5	6	1	2	3	4	5	6	MONOCOT HERBS	1	2	3	4	5	6
1												Plantago lanceolata						
2						Erigeron annuus						Plantago major						
3						Erigeron philadelphicus						Plantago rugellii						
4						Erigeron strigosus						Podophyllum peltatum						
5						Erythronium chieranthoides						Polygonum						
6						Eupatorium maculatum						Polygonum						
						Eupatorium perfoliatum						Polygonum						
						Eupatorium rugosum						Polygonum lapathifolium						
						Euphorbia						Polygonum persicaria						
						Euthamia graminifolia						Potentilla						
						Fragaria virginiana						Potentilla norvegica						
						Fragaria vesca						Potentilla roea						
						Galeopsis tetrahit						Prenanthes alba						
						Galium						Prunella vulgaris						
						Galium						Pyrola elliptica						
						Galium palustre						Ranunculus						
						Galium triflorum						Ranunculus abortivus						
						Geranium maculatum						Ranunculus acris						
						Geranium robertianum						Rudbeckia hirta						
						Geum aleppicum						Rumex acetosella						
						Geum canadense						Rumex crispus						
						Geum						Rumex						
						Glechoma hederacea						Sanguinaria canadensis						
						Hepatica acutiloba						Sanicula marilandica						
						Hesperis matronalis						Saponaria officinalis						
						Hieracium aurantiacum						Satureja vulgaris						
						Hieracium caespitosum						Scutellaria galericulata						
						Hieracium						Silene vulgaris						
						Hydrophyllum virginianum						Sium suave						
						Hypochaeris perforatum						Solanum dulcamara						
						Impatiens capensis						Solidago						
						Inula helenium						Solidago altissima						
						Lactuca						Solidago caesia						
						Laportea canadensis						Solidago canadensis						
						Lapsana communis						Solidago flexicaulis						
						Leonurus cardiaca						Solidago gigantea						
						Lepidium						Solidago nemoralis						
						Linaria vulgaris						Solidago rugosa						
						Lithospermum officinale						Sonchus oleraceus						
						Loabellia						Stellaria						
						Loabellia trifida						Tanacetum vulgare						
						Lactuca compositus						Taraxacum officinale						
						Lycopus americanus						Thalictrum dioicum						
						Lycopus						Thalictrum pubescens						
						Lysimachia ciliata						Tiarella cordifolia						
						Lytimum scariosa						Trigonogon pratensis						
						Medicago lupulina						Trientalis borealis						
						Medicago sativum						Trifolium						
						Melilotus alba						Trifolium pratense						
						Meritha arvensis						Trifolium repens						
						Mimulus ringens						Tussilago farfara						
						Mimulus ringens						Urtica dioica						
						Mullethia						Urtica vulgaris						
						Mazaria fistulosa						Veronica						
						Myosotis						Veronica officinalis						
						Nasturtium officinale						Viola cracca						
						Nepeta cataria						Viola leucopetala						
						Nuphar variegatum						Viola						
						Nymphaea odorata						Viola pubescens						
						Oenothera biennis						Viola sororia						
						Osmochliza												
						Oxalis stricta												
						Phytolacca tomentosa												
						Physalis heterophylla												
						Leucanthemum vulgare												
						Nigella sp												

1: _____ 4: _____
 2: _____ 5: _____
 3: _____ 6: _____

SITE LOCATIONS

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

ELC WILDLIFE	SITE: <u>BT 3 - 494</u>	
	POLYGON:	
	DATE: <u>July 29, 2011</u>	
	SURVEYORS:	
	START TIME: <u>2:34</u>	END TIME: <u>4:27</u>

TEMP (°C): <u>13°C</u>	CLOUD (10th): <u>cloudy</u>	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

VERNAL POOLS	<input checked="" type="checkbox"/>	SNAGS
HIBERNACULA	<input type="checkbox"/>	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

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

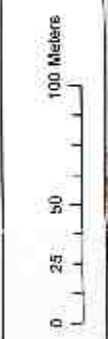
BREEDING BIRD - CONFIRMED:
 DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
 NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
 AE = NEST ENTRY

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)

Collected - feature interest
 Utility - R/W/F - see an interest
 Property - Forest
 Blue water - Wind Energy License

70006
 Access/Location site
 Collected - R/W/F - 1120m
 Feature - R/W/F (171.5m)

August 28, 2014



Bluewater Feature: 496_BLW1075/1502
495_BLW1542
 (Properties that contain Features within 120m from Collector lines are 171.5m from Turbines)



- Collection/structure present
- Future Duffin/collector lines
- Property Boundary
- 800m/800ft Buffer (171.5m)

- Roads
- Associated by Line
- Collector Buffer (125m)
- Future Duffin (171.5m)

↑

August 29, 2011



Bluewater Feature: 496_BLW1075/1502
495_BLW1542
 (Properties that contain Features within 125m from Collector lines and 171.5m from Turbines)



ELC Community Description and Classification

Site: 495_BLW1542 Polygon: 1

Surveyor(s): SAH Date: 02/16/11 Time start: 17:5h finish: 17:30h

UTMZ: 17T UTMZ: 44G019 UTMN: 4816751

w p 331

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input checked="" type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic	<input type="checkbox"/> Organic <input checked="" type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input checked="" type="checkbox"/> Valley Slope <input type="checkbox"/> Tableland <input type="checkbox"/> Roll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> T. Blus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> A. V. er <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input checked="" type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input type="checkbox"/> Forest <input checked="" type="checkbox"/> Plantation
History	<input type="checkbox"/> Natural <input checked="" type="checkbox"/> Cultural			
Cover	<input type="checkbox"/> Open <input type="checkbox"/> Shrub <input checked="" type="checkbox"/> Tree			

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp)
1	3	4-3	<i>(=> Much Greater Than) => Greater Than, = About Equal To</i> Black Locust >> Apple >> Black Locust <i>Aw > SH Surface</i>
2			Black Locust >> Aw > Red Osier Dog wood
3			Black Locust >> Smooth Brome > Tall Goldenrod
4			Early Goldenrod >> Ketch > 91-John Smart > Swamp Ann's Lake

HT Codes: 7 > 0.2m 5 > 0.2-0.5m 3 > 0.5-1m 4 > 1-2m 3 > 2-5m 2 > 6-25m 1 > 25m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

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

BA: N/A

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

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

Ecotope:	Code:
Vegetation Type:	<u>Deciduous Plantations</u> <u>Black Locust Deciduous Plantation</u> <u>Type</u>
Inclusion:	<u>cup 1</u>
Complex:	<u>cup 1 ?</u>

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

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

Soils Ontario and ELC Soils Description

Site Metrics	PT/Auger #	Summary
UTM		
Zone		
Easting		
Nothing		
Position	<u>N/A</u>	
Aspect		
Percent		
Slope		
Length		
Mottles		
Gley		
Water Table		
Carbonates		
Bedrock		
Depth to ...		
1	Depth from zero	% CF
	Texture	% CF
2	Depth from zero	% CF
	Texture	% CF
3	Depth from zero	% CF
	Texture	% CF
4	Depth from zero	% CF
	Texture	% CF
	% Surface Stone/Rock	
	Moisture Regime	
	Drainage	

ELC
Community Description and Classification

Site: 305_BLW482 Polygon: 2
 Surveyor(s): SAN Date: Oct 6/11 Time start: 1730 h
 UTMZ: 17T UTMZ: 446002 UTMN: 4816704

Polygon Description

Substrate: Organic Mineral Soil Parent Min. Acidic Bedrk Basic Bedrk Carb. Bedrk

Topographic Feature: Lactifrine Riverine Bottomland Terrace Valley Slope Tableland Roll. Upland Cliff Talus Crevice/Cave Aiver Rockland Beach / Bar Sand Dune Bluff

Plant Form: Plankton Submerged Floating-LVD. Graminoid Forb Lichen Bryophyte Deciduous Coniferous Mixed

Community: Lake Pond River Stream Marsh Swamp Fen Bog Barren Meadow Prairie Thicket Savannah Woodland Forest Plantation

System: Terrestrial Wetland Aquatic

Site: Open Water Shallow Water Surficial Dep. Bedrock

History: Natural Cultural

Cover: Open Strub Treed

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	0	Saxifraga oppositifolia > Salix flagellans
2	3	4	Salix eriocephala >>> Racomitrium lanuginosum > S. rubra
3	5-4	5-2	Rice cutgrass > Smeathman's Rush > Sphagnum sp. > Juncus tenuis
4	6-1	2	Meadow Horsetail > Ranunculus abortivus

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 - 50% 4 > 50%

Stand Composition: **Size Class Analysis:**

Standing Snags:	<10	10-24	25-50	>50
Deadfall/Logs:	<10	10-24	25-50	>50

BA: N/A

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

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

Soils: Mineral Thicket Swamp Erosite Code: SWTA
 Vegetation Type: Willow Mineral Thicket Swamp Type Code: SWTA-2
 Inclusion: / Code: /
 Complex: / Code: /

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

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

Soils Ontario and ELC Soils Description

PIU/Auger # 0 WP 392

UTM	Zone	Easting	Northing	Position	Aspect	Percent	Slope	Length	Summary
	17T	446002	4816704	6	SE	2	10m	4	
								22	
								+120cm (above ground)	
								58	
								>120	

Site Metrics

Depth to...	1	2	3	4	% CF	% CF	% CF	% CF	Effective Texture (Indicate below)	% CF
Depth from zero	47									
Texture	Oh									
Depth from zero	0									
Texture	ELC									
Depth from zero	17									
Texture	SIC								SIC	
Depth from zero										
Texture										
% Surface Stone/Rock										
Moisture Regime	Mod. wet (7)								Mod. wet (7)	
Drainage	Very Poor (7)								Very Poor (7)	

ELC Plant Species List	SITE: 495-BLW 1542
	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				COLL.	SPECIES CODE	LAYER				COLL.
	1	2	3	4			1	2	3	4	
① Black Locust						② Salix Xrubra s					
Tall G'rod						R.O. Dog.					
ROD						NE Aster					
fw						BLK Butrush					
NE Aster						BL Cattail					
Sm. Bone						Joe pye					
GA Lace						Pan Aster					
Verbena						GL G'rod					
St. John						Head Horsetail					
Frost Aster						Jawweed					
Apple						Rice Cutgrass					
SA Sumac						Swamp Aster					
Red top						Pen. Bittercress					
Early G'rod						Willow Willow (erkeoph)					
						P-L Willow					
						Salix Fragilis					

GRECA
BL JA
Spring Paper

VASCULAR PLANT CHECKSHEET

Location: 495 BLW1542
 Observer: SAM

Date: Oct 6/11
 Job Number:

DICOT HERBS												MONOCOT HERBS					
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
Achillea millefolium						Erigeron annuus						Plantago lanceolata					Alisma plantago-aquatica
Actaea pachypoda						Erigeron philadelphicus						Plantago major					Allium tricoccum
Actaea rubra						Erigeron strigosus						Plantago rugelii					Allium
Agalinis						Erysimum cheiranthoides						Podophyllum peltatum					Artemisia triphyllum
Agrimonia gryposepala						Eupatorium maculatum						Polygonum					Asparagus officinalis
Ajllaria petiolaris						Eupatorium perfoliatum						Polygonum					Cela palustris
Amaranthus retrofractus						Eupatorium rugosum						Polygonum					Clintonia borealis
Ambrosia artemisiifolia						Euphorbia						Polygonum lapathifolium					Corallorhiza majus
Amphicarpaea bracteata						Euthamia graminifolia						Polygonum persicaria					Cypripedium calceolus
Anaphalis margaritacea						Fragaria virginiana						Potentilla					Elodea canadensis
Anemone						Fragaria vesca						Potentilla norvegica					Epipactis helleborine
Anemone canadensis						Galeopsis tetrahit						Potentilla recta					Erythronium americanum
Anemone virginiana						Galium						Pranarthee alba					Hemerocallis fulva
Antennaria neglecta						Galium						Prunella vulgaris					Iris versicolor
Apocynum androsaemifolium						Galium palustre						Pyrola elliptica					Lemna minor
Apocynum cannabinum						Galium triflorum						Ranunculus					Lemna trisulca
Aquilegia canadensis						Geranium maculatum						Ranunculus abortivus					Lilium
Arnica montana						Geranium robertianum						Ranunculus acris					Maianthemum canadense
Aster nudicaulis						Geum alepizcum						Rudbeckia hirta					Maianthemum racemosum
Aster multiflorus						Geum canadense						Rumex acetosella					Maianthemum stellata
Aster ericoides						Geum						Rumex crispus					Plantago
Aster lanceolatus						Hieracium						Rumex					Pontederia cordata
Aster lateriflorus						Hieracium						Sanguinaria canadensis					Polygonatum pubescens
Aster macrophyllus						Hydrophyllum virginianum						Sanicula marilandica					Potamogeton crispus
Aster novae-angliae						Hypericum perforatum						Saponaria officinalis					Potamogeton peclinetus
Aster puniceus						Impatiens capensis						Satureja vulgaris					Potamogeton
Barbarea vulgaris						Impatiens						Scutellaria galericulata					Potamogeton
Bidens cernua						Lactuca						Silene vulgaris					Potamogeton
Bidens frondosa						Laportea canadensis						Sium suave					Sagittaria latifolia
Boehmeria cylindrica						Lapsana communis						Solanum dulcamara					Silybum marianum
Caltha palustris						Leonurus cardiaca						Solidago juncea					Smilax herbacea
Calystegia sepium						Lepidium						Solidago altissima					Spiranthes cornuta
Cardamine diphylla						Linaria vulgaris						Solidago canadensis					Spiradela polytricha
Cardamine						Lithospermum officinale						Solidago flexicaulis					Straptopus roseus
Caulophyllum thalictroides						Lobelia						Solidago gigantea					Trillium erectum
Carastium fernanum						Lobelia inflata						Solidago nemoralis					Trillium grandiflorum
Caesalophyllum dimerium						Lotus corniculatus						Solidago rugosa					Uvularia grandiflora
Chelidonium majus						Lycopus americanus						Sonchus oleraceus					
Chenopodium album						Lycopus						Sonchus asper					
Chrysanth. leucanthemum						Lysimachia clethra						Stellaria					
Cichorium intybus						Lithum selicaria						Tanacetum vulgare					
Cicuta						Medicago lupulina						Taraxacum officinale					
Circaea leutkiana						Medicago sativum						Thalictrum dioicum					
Cirsium arvense						Melilotus alba						Thalictrum pubescens					
Cirsium vulgare						Mentha arvensis						Tiarrella cordifolia					
Clematis virginiana						Mimulus ringens						Tragopogon pratensis					
Clintonia borealis						Mimulus ringens						Trifolium boreale					
Coryza canadensis						Mullein						Trifolium					
Coronilla varia						Mullein						Trifolium pratense					
Cynanchum rossicum						Nasturtium officinale						Trifolium repens					
Cynoglossum officinale						Nepeta cataria						Tussilago farfara					
Dasycarpus carota						Nuphar variegatum						Urtica dioica					
Desmodium canadense						Nymphaea odorata						Utricularia vulgaris					
Dianthus amurensis						Oenothera biennis						Verbascum thapsus					
Dipsacus fullonum						Osmorhiza						Verbena hastata					
Echinocystis lobata						Ornithoglossum						Verbena urticifolia					
Echium vulgare						Physalis heterophylla						Veronica					
Epilobium												Veronica officinalis					
Epilobium ciliatum												Viola cracca					
Epilobium hirsutum												Viola labradorica					
Epilobium parviflorum												Viola					
												Viola					
												Viola pubescens					
												Viola sororia					

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

SITE LOCATIONS

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

ELC WILDLIFE	SITE: 495-BLW 1542		
	POLYGON: 142		
	DATE: Oct. 6/11		
	SURVEYORS: SAM		
	START TIME: _____ END TIME: _____		
TEMP (°C): 17	CLOUD (10th): \	WIND: 1	PRECIPITATION: nil
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

VERNAL POOLS	SNAGS
HIBERNACULA	FALLEN LOGS

SPECIES LIST:

align #
①
②

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	GRCA	VO		1					
B	BLJA	VO		2					
A	Spring Peeper	VO		1					

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)

Bluewater Feature: ~~400/485~~ **BLW1502/1542**

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

NEW SURVEYS
 LLG Survey Complete
 Traction By Bluewater in Release
 Proposed Property
 Bluewater/Wind Energy Centre

Route
 Access/Collector 1 in
 Survey to be Completed
 Traction Blue (17' strip)



October 17, 2011



08/12/11

914-495

ROE=Yes

ROE=NO
ASA from
Bronson Line

FEATURES
493 (1st survey)
496 (2nd survey)
495 (2nd survey)

planted tree

BLW1502

Bluewater Feature: ~~499~~ 495 BLW1502/1542

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

NE Co. Surveying
ELD Survey Completed
Turbine 3.0m/1.5m/1.5m/1.5m
Property Fabric
R. Water Wind Energy Centre

Roads
Access/Collection Line
Survey to be Completed
Turbine Buffer (17.2m)



October 17, 2011



ELC Community Description and Classification

Site: 495 Polygon: Time start: 9:00 am finish: Date: Nov 2/11 UTMZ: UTMN:

Surveyor(s): Jd Km

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) <i>(S > Much Greater Than) > Greater Than = About Equal To)</i>
1	2	2	<i>Sw. nig</i>
2	3	3	<i>doh</i>
3	4	4	<i>Saxia herb.</i>
4			

HT Codes: 7 < 0.2m 6 < 0.2-0.5m 5 < 0.5-1m 4 > 1-2m 3 > 2-6m 2 > 6-25m 1 > 25m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

Stand Composition: Size Class Analysis:

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 Mid-Age Mature Old Growth

Ecotope:	Mineral Thicket Swamp Ecotope	Code:	SWT2
Vegetation Type:	Willow Mineral Thicket Swamp Type	Code:	SWT2-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes: - confirmed from SAM notes
pic 946

Tree Tally by Species - community not large for P. Swamp

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

Soils Ontario and ELC Soils Description

Site Metrics	PI/Auger #	Soils Ontario and ELC Soils Description				Summary
Zone						Moisture Regime
Easting						
Northing						
Position						Drainage
Aspect						
Percent						
Slope						Effective Texture (indicate below)
Length						
Mottles						
Gley						% CF
Water Table						
Carbonates						
Bedrock						% CF
1	Depth from zero					
Texture						
2	Depth from zero					% CF
Texture						
3	Depth from zero					
Texture						
4	Depth from zero					% CF
Texture						
% Surface Stoner/Rock						
Moisture Regime						
Drainage						

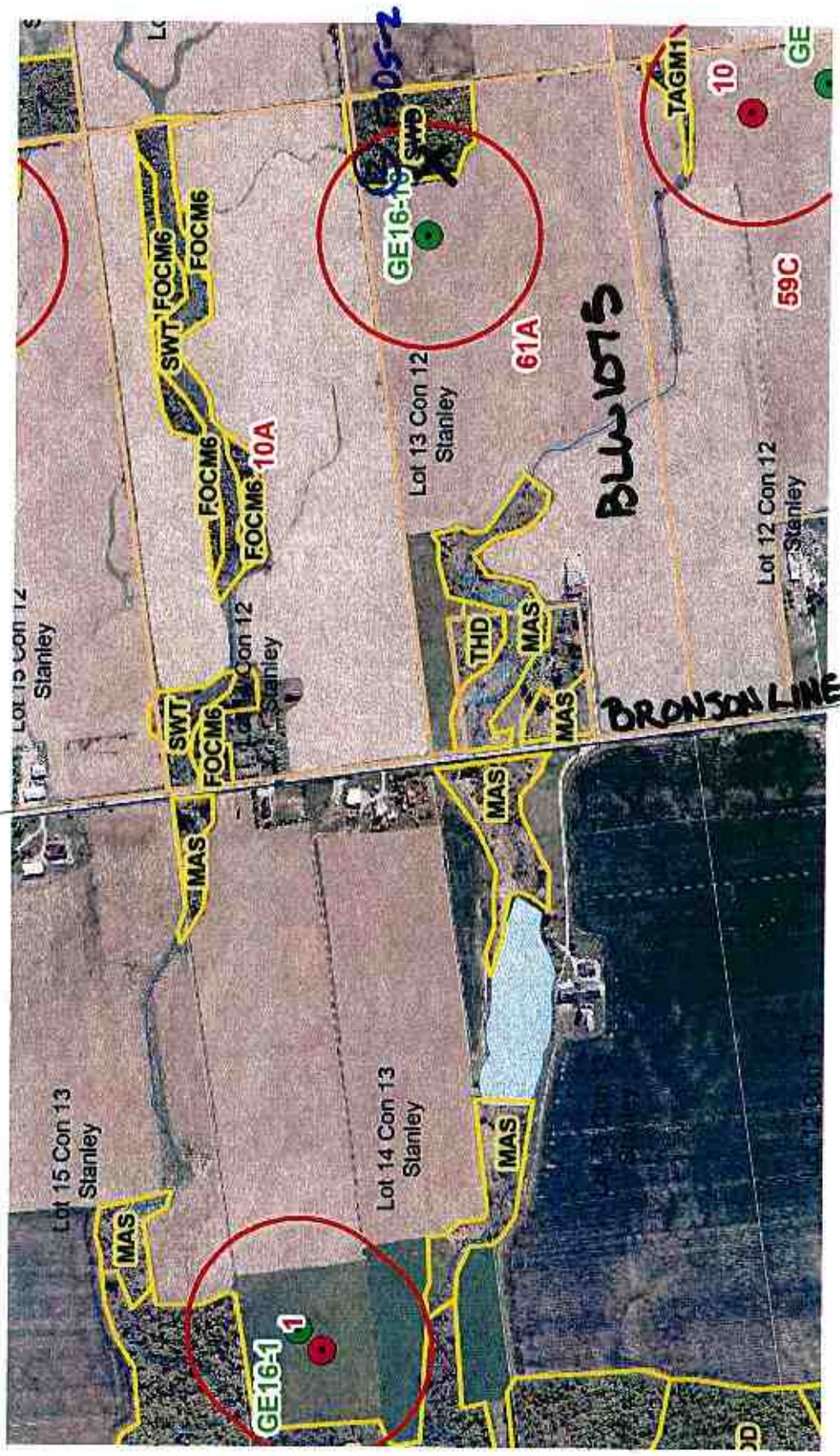
LURLINE 112
GE 16-10 BLW-498

PAVILLION ROAD

BW Fig 2

↑ GOSHEN LINE

498



Suggested Access: via Bronson Line

Site: **Burns** 498 Polygon: **12**
 Surveyor(s): **DS** Date: **8/15/11** Time start: **11:37**
 UTMZ: **17** UTMZ: **446988** UTMN: **4816874**

Polygon Description

System	Substrate	Topographic Features	Plant Form	Community
<input checked="" type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <input type="checkbox"/> Site	<input type="checkbox"/> Organic <input checked="" type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk <input type="checkbox"/> Bedrock	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input type="checkbox"/> Valley Slope <input checked="" type="checkbox"/> Tableland <input type="checkbox"/> Roll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevices/Cave <input type="checkbox"/> Alvar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD. <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input checked="" type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input type="checkbox"/> Forest <input type="checkbox"/> Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4-sp)
1	4	4	ACESAC > FAGORAN > PRUSERO
2	4	4	FRAPENS
3	3	2	PRVYMER
4	2,3	2	GEUCANA

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 9 > 0.5-1m 4 > 1-2m 3 > 2-5m 2 > 5-25m 1 > 25m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 20% 3 25 - 50% 4 > 50%

Stand Composition: Size Class Analysis:

Standing Stages	< 10	10-24	25-50	> 50
Decidif / Legs:	0	N	N	N
BA:	0	R	N	N

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

Community Profile Diagram/Comments

Exp. Age:	Any-fresh stages maple Deciduous forest	Code:	FOPS
Vegetation Type:	Any-fresh sugar maple-beech	Code:	FOPS-2
Initiation:	Deciduous forest type	Code:	
Complex:		Code:	

Notes:
 Same large ACESAC > 50cm dbh

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	% CF
Total					100	
Basis Area (BA)						
Dist						

Soils Ontario and ELC Soils Description

PI/Auger #	Zone	Soil	Summary
1	4	446988	Moisture Regime
2	4	4816874	Drainage
3	4	4	Effective Texture (indicate below)
4	4	4	% CF

Soil Horizon Description

Depth (cm)	Depth from zero	Texture	% CF
1	0-14cm	SL	2cm
2	14-35cm	SCL	
3	35-50cm		
4	50-100cm		

Soil Metrics

Mottles	Gley	Water Table	Carbonates	Bedrock
N/A	N/A	7120	7120	7120

VASCULAR PLANT CHECKSHEET

Location:

Date: May 13, 2011

Observer: DJ

Job Number: 60155032

DICOTYLEDONS								MONOCOT HERBS									
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
<i>Archilea nitida</i>						<i>Erigeron annuus</i>						<i>Plantago lanceolata</i>					
<i>Alcea pachyandra</i>						<i>Erigeron philadelphicus</i>						<i>Plantago major</i>					
<i>Alcea rubra</i>	X					<i>Erigeron strigosus</i>						<i>Plantago rugelii</i>					
<i>Agalinus</i>						<i>Elystrum ciceranthoides</i>						<i>Polygonum petatum</i>	X				
<i>Agrostis glypseopala</i>						<i>Eupatorium maculatum</i>						<i>Polygonum</i>					
<i>Alliaria petiolaris</i>						<i>Eupatorium perforatum</i>						<i>Polygonum</i>					
<i>Amaranthus tetralixus</i>						<i>Eupatorium rugosum</i>						<i>Polygonum</i>					
<i>Amibrosia artemisiifolia</i>						<i>Euphorbia</i>						<i>Polygonum lapathifolium</i>					
<i>Amphispiza brevifolia</i>						<i>Euthamia granatifolia</i>						<i>Polygonum persicaria</i>					
<i>Anaphalis margaritacea</i>						<i>Fragaria virginiana</i>	X					<i>Polenta</i>					
<i>Anemone</i>						<i>Fragaria vesca</i>						<i>Polentilla norvegica</i>					
<i>Anemone canadensis</i>						<i>Galeopsis tetrahit</i>						<i>Polentilla recta</i>					
<i>Anemone virginiana</i>						<i>Gallium</i>						<i>Prenanthes alba</i>	X				
<i>Antennaria neglecta</i>						<i>Gallium</i>						<i>Prunella vulgaris</i>					
<i>Apocynum androsaemifolium</i>						<i>Gallium palustre</i>						<i>Pyraea elliptica</i>					
<i>Apocynum cannabinum</i>						<i>Gallium triflorum</i>						<i>Ranunculus</i>					
<i>Aquilegia canadensis</i>						<i>Geranium maculatum</i>						<i>Ranunculus abortivus</i>					
<i>Aralia nudicaulis</i>						<i>Geranium robertianum</i>	X					<i>Ranunculus acris</i>					
<i>Arcobium minus</i>						<i>Geum aleppicum</i>						<i>Rudbeckia hirta</i>					
<i>Artemisia</i>						<i>Geum canadense</i>	X					<i>Rumex acetosella</i>					
<i>Asarum canadense</i>						<i>Geum</i>						<i>Rumex crispus</i>					
<i>Asclepias incarnata</i>						<i>Glaucium hederacea</i>						<i>Rumex</i>					
<i>Asclepias syriaca</i>						<i>Hepatica aculoba</i>						<i>Sanguinaria canadensis</i>					
<i>Aster</i>						<i>Hesperis matronalis</i>						<i>Sarothra maritima</i>					
<i>Aster cordifolius</i>						<i>Hieracium aurantiacum</i>						<i>Saponaria officinalis</i>					
<i>Aster ericoides</i>						<i>Hieracium caespitosum</i>						<i>Satureia vulgaris</i>					
<i>Aster lanceolatus</i>						<i>Hieracium</i>						<i>Scutellaria galericulata</i>					
<i>Aster lateriflorus</i>						<i>Hydrophyllum virginianum</i>	X					<i>Silene vulgaris</i>					
<i>Aster macrophyllus</i>						<i>Hypericum perforatum</i>						<i>Sium suave</i>					
<i>Aster novae-angliae</i>						<i>Impatiens capensis</i>						<i>Solanum dulcamara</i>					
<i>Aster punctatus</i>						<i>Impatiens</i>						<i>Solidago</i>					
<i>Barbarea vulgaris</i>						<i>Lactuca</i>						<i>Solidago altissima</i>					
<i>Bidens cernua</i>						<i>Laportea canadensis</i>						<i>Solidago canadensis</i>					
<i>Bidens frondosa</i>						<i>Lapsia communis</i>						<i>Solidago flexicaulis</i>					
<i>Bomarea cyathiflora</i>						<i>Leucurus canadensis</i>						<i>Solidago rigida</i>	X				
<i>Calla palustris</i>						<i>Lepidium</i>						<i>Solidago serotina</i>					
<i>Calystegia sepium</i>						<i>Linaria vulgaris</i>						<i>Solidago nemoralis</i>					
<i>Cardamine diphylla</i>						<i>Urosperma officinale</i>						<i>Solidago rugosa</i>					
<i>Cardamine</i>						<i>Urtica</i>						<i>Senecio jacobina</i>					
<i>Caulophyllum thalictroides</i>	X					<i>Lobelia inflata</i>						<i>Senecio jacobina</i>					
<i>Cerastium fontanum</i>						<i>Lotus corniculatus</i>						<i>Senecio</i>					
<i>Ceratophyllum demersum</i>						<i>Lycopus americanus</i>						<i>Senecio</i>					
<i>Chelidonium majus</i>						<i>Lycopus</i>						<i>Senecio</i>					
<i>Chenopodium album</i>						<i>Lycopersicon esculentum</i>						<i>Senecio</i>					
<i>Chrysanth. leucanthemum</i>						<i>Lythrum salicaria</i>						<i>Senecio</i>					
<i>Cichorium intybus</i>						<i>Medicago lupulina</i>						<i>Senecio</i>					
<i>Cicuta</i>						<i>Medicago sativum</i>						<i>Senecio</i>					
<i>Circaea lutetiana</i>						<i>Mellilotus alba</i>						<i>Senecio</i>					
<i>Cirsium arvense</i>						<i>Mentha arvensis</i>						<i>Senecio</i>					
<i>Cirsium vulgare</i>						<i>Mimulus ringens</i>						<i>Senecio</i>					
<i>Clematis virginiana</i>						<i>Mimulus ringens</i>						<i>Senecio</i>					
<i>Clinoclea borealis</i>						<i>Mitella diphylla</i>						<i>Senecio</i>					
<i>Coryza canadensis</i>						<i>Monarda fistulosa</i>						<i>Senecio</i>					
<i>Coronilla varia</i>						<i>Mysotis</i>						<i>Senecio</i>					
<i>Cynanchum roseolum</i>						<i>Nasturtium officinale</i>						<i>Senecio</i>					
<i>Cynoglossum officinale</i>						<i>Nepeta cataria</i>						<i>Senecio</i>					
<i>Daucus carota</i>						<i>Nuphar variegatum</i>						<i>Senecio</i>					
<i>Desmodium canadense</i>						<i>Nymphaea odorata</i>						<i>Senecio</i>					
<i>Dianthus annuus</i>						<i>Oenothera biennis</i>						<i>Senecio</i>					
<i>Dipsacus fullohim</i>						<i>Osmorhiza</i>						<i>Senecio</i>					
<i>Echinopsys lobata</i>						<i>Oxalis stricta</i>						<i>Senecio</i>					
<i>Echium vulgare</i>						<i>Phytolacca leptostachya</i>						<i>Senecio</i>					
<i>Epilobium</i>						<i>Phytolacca heterophylla</i>						<i>Senecio</i>					
<i>Epilobium ciliatum</i>												<i>Senecio</i>					
<i>Epilobium hirsutum</i>												<i>Senecio</i>					
<i>Epilobium parviflorum</i>												<i>Senecio</i>					

1: _____ 4: _____
 2: _____ 5: _____
 3: _____ 6: _____

SITE LOCATIONS

ELC WILDLIFE	SITE: <u>Blue water</u> 498	
	POLYGON: <u>16</u>	
	DATE: <u>13/5/11</u>	
	SURVEYORS: <u>SJ</u>	
	START TIME: <u>10:1</u>	END TIME: <u>12:17</u>

TEMP (°C): <u>28</u>	CLOUD (10m): <u>50%</u>	WIND: <u>Δ</u>	PRECIPITATION: <u>0</u>
CONDITIONS: <u>Windy, clear, bright</u>			

POTENTIAL WILDLIFE HABITAT:

<input checked="" type="checkbox"/> VERNAL POOLS	<input type="checkbox"/> SNAGS
<input type="checkbox"/> HIBERNACULA	<input type="checkbox"/> FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	4224C	SM							
B	S051	SM							
B	6075	SM							
B	01W11	SM							

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)

BLM 501 - 1079

NW (Bridging S. of Pavilion) Completed Aug 18/11 - SAM

Bluewater Access Road / Collection Lines

- LC to Fuel Line
- Water table
- BLM Water Wind Energy Center
- 150m Buffer
- Road
- Access/Ejection Line
- No Access (as of August 2011)
- Access

